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MSGP Stormwater Pollution Prevention Plan

for:

TA-09-0214 Metal Fabrication Shop

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

January 2023

Revision 3

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Table of Contents

PREFACE	6
1.0 FACILITY DESCRIPTION	6
1.1 Facility Information	6
1.2 Stormwater Pollution Prevention Team (PPT)	7
1.3 Site Description	8
1.4 General Location Map	9
1.5 Site Map	9
2.0 POTENTIAL POLLUTANT SOURCES	9
2.1 Potential Pollutants Associated with Industrial Activity	10
2.2 Spills and Leaks	10
2.3 Unauthorized Non-Stormwater Discharges	11
2.4 Salt Storage	11
2.5 Historical Data Summary	11
3.0 STORMWATER CONTROL MEASURES	13
3.1 Non-Numeric Technology-Based Effluent Limits	13
3.1.1 Minimize Exposure	14
3.1.2 Good Housekeeping	15
3.1.3 Maintenance	16
3.1.4 Spill Prevention and Response	16
3.1.5 Erosion and Sediment Control	17
3.1.6 Management of Runoff	17
3.1.7 Salt Storage Piles or Piles Containing Salt	17
3.2 Numeric Effluent Limitations Based on Effluent Limitations Guidelines	17
3.3 Water Quality-Based Effluent Limitations and Water Quality Standards	17
4.0 SCHEDULES AND PROCEDURES	18
4.1 Good Housekeeping	18
4.2 Maintenance	18
4.3 Spill Prevention and Response	18
4.4 Erosion and Sediment Control	18
4.5 Employee Training	18
4.6 Routine Facility Inspections and Quarterly Visual Assessments	19
4.6.1 Routine Facility Inspections	19

4.6.2	Quarterly Visual Assessments	20
4.7	Monitoring.....	20
5.0	DOCUMENTATION FOR ELIGIBILITY CONSIDERATIONS UNDER OTHER FEDERAL LAWS	24
5.1	Endangered Species	24
5.2	Historic Properties.....	24
6.0	CORRECTIVE ACTIONS AND DEADLINES.....	25
6.1	Immediate Actions	26
6.2	Subsequent Actions.....	26
6.3	AIM Baseline Status and Triggering Events	26
6.3.1	AIM Level 1	26
6.3.2	AIM Level 2	27
6.3.3	AIM Level 3	27
6.3.4	AIM Exceptions	28
6.4	Corrective Action and AIM Documentation	28
7.0	ACRONYMS	29
8.0	SWPPP CERTIFICATION.....	30
FIGURE A:	GENERAL LOCATION MAP	31
FIGURE B-1	FACILITY SITE MAP METAL FABRICATION SHOP.....	32
FIGURE B-2	NEARBY RECEIVING WATERS	33
FIGURE B-3	ENDANGERED SPECIES MAP	34
ATTACHMENT 1:	NOTICE OF INTENT, SUPPORTING DOCUMENTATION, AND UPDATES	35
ATTACHMENT 2:	SWPPP AMENDMENTS.....	36
ATTACHMENT 3:	CERTIFICATION OF NO UNAUTHORIZED STORMWATER DISCHARGES	37
ATTACHMENT 4:	DULY AUTHORIZED SIGNATORY MEMORANDUM	38
ATTACHMENT 5:	DISCHARGE MONITORING REPORTS.....	39
ATTACHMENT 6:	ANNUAL REPORTS.....	40
ATTACHMENT 7:	ROUTINE FACILITY INSPECTIONS	41
ATTACHMENT 8:	QUARTERLY VISUAL ASSESSMENTS	42

ATTACHMENT 9:	CORRECTIVE ACTION DOCUMENTATION AND CERTIFICATION	43
ATTACHMENT 10:	SCHEDULED MAINTENANCE LOG.....	44
ATTACHMENT 11:	TRAINING DOCUMENTATION	45
ATTACHMENT 12:	MSGP (OR ACTIVE URL)	46
ATTACHMENT 13:	THREATENED AND ENDANGERED SPECIES HABITAT MANAGEMENT PLAN FOR LOS ALAMOS NATIONAL LABORATORY	47
ATTACHMENT 14:	MSGP IPAC TRUST RESOURCES REPORT	48
ATTACHMENT 15:	EPC-CP-PIP-2101, NPDES MULTI-SECTOR GENERAL PERMIT	49
ATTACHMENT 16:	EPC-CP-QP-2108, MSGP ROUTINE FACILITY INSPECTIONS	50
ATTACHMENT 17:	EPC-CP-QP-2109, MSGP CORRECTIVE ACTIONS	51
ATTACHMENT 18:	EPC-CP-QP-2105, MSGP STORMWATER VISUAL ASSESSMENTS	52
ATTACHMENT 19:	EPC-CP-TP-2103, INSPECTING ISCO STORMWATER RUNOFF SAMPLERS AND RETRIEVING SAMPLES	53
ATTACHMENT 20:	EPC-CP-QP-2106, PROCESSING MSGP STORMWATER SAMPLES	54
ATTACHMENT 21:	EPC-CP-QP-0903, ENVIRONMENTAL REPORTING REQUIREMENTS FOR RELEASES OR EVENTS	55
ATTACHMENT 22:	EPC-CP-QP-1007, SPILL INVESTIGATIONS.....	56
ATTACHMENT 23:	EPC-CP-QP-2110, MSGP STORMWATER POLLUTION PREVENTION PLAN PREPARATION AND MAINTENANCE	57
ATTACHMENT 24:	WFO-IWD-00016, SPILL RESPONSE AND CLEAN UP IN WEAPONS FACILITIES OPERATIONS (WFO) AREAS	58

TA-09-214 Metal Fabrication Shop STORMWATER POLLUTION PREVENTION PLAN

PREFACE

This Stormwater Pollution Prevention Plan (SWPPP) was developed in accordance with the provisions of the Clean Water Act (33 U.S.C. §§1251 et seq., as amended), and the *United States Environmental Protection Agency (EPA) National Pollutant Discharge Elimination System (NPDES) Multi-Sector General Permit for Stormwater Discharges Associated with Industrial Activity (MSGP)* (U.S. EPA, January 2021) issued by EPA. The SWPPP uses the industry specific permit requirements for *Sector AA-Fabricated Metal Products* as a guide. The applicable stormwater discharge permit is EPA General Permit Tracking Number NMR050013 MSGP 2021 [Triad National Security, LLC (Triad)]. [Click here to view contents of the 2021 Multi-Sector General Permit.](#)

This SWPPP applies to discharges of stormwater from the operational areas of the TA-09-0214 Metal Fabrication Shop (MFS) 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-09-0214 Shop. The current MSGP expires at midnight on February 28, 2026.

1.0 FACILITY DESCRIPTION

1.1 Facility Information

Name of Facility: TA-09-0214 Metal Fabrication Shop		
Street: Northeast side of the intersection of Anchor Rd. and R-Site Rd.		
City: Los Alamos	State: NM	ZIP Code: 87545
County: Los Alamos		
NPDES ID (i.e., permit tracking number): NMR050013 MSGP 2021		
Primary Industrial Activity SIC code, and Sector and Subsector: SIC 3499, Sector AA, Subsector AA1		
Estimated area of industrial activity at site exposed to stormwater: 0.67 acres		
Discharge Information		
Name(s) of surface water(s)/segment that receives stormwater from your facility: Arroyo de la Delfe (Above Kielling Spring to headwaters)		
Does this facility discharge industrial stormwater directly into any segment of an “impaired water” (see definition in 2021 MSGP, Appendix A)? <input checked="" type="checkbox"/> Yes No		
Pollutants causing the impairment: Total Recoverable Aluminum, Dissolved Copper, Adjusted Gross Alpha, and Polychlorinated Biphenyls (PCBs).		

Pollutants causing the impairment (see above) that may be present in industrial stormwater discharges from this Facility: Aluminum, Copper

Are any of your stormwater discharges subject to effluent limitation guidelines (ELGs) (2021 MSGP Table 1-1)? ☐Yes ☒No

If Yes, which guidelines apply? Not applicable.

1.2 Stormwater Pollution Prevention Team (PPT)

The Stormwater PPT for the TA-09-0214 Shop consists of operations and management personnel from the Weapons Facility Operations (WFO), 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): Kelkenny Bileen, EPC-CP, Deployed 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.
Facility Operations Director (FOD) Manager/Representative: Derek Clark, FOD, WFO-DO	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 WFO 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.
EPC-CP Core: Holly Wheeler , MSGP Program Lead, EPC-CP	The MSGP Program Lead is responsible for managing and administering the MSGP Program for all industrial facilities operated by Triad within 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): Ricardo Gomez, Logistics- (LOG-SUP)	Responsible for day-to-day operations at the facility. Assists the DEPs and EPC with inspections; spill reporting; implementing, installing and 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 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 is located at TA-09-0214. (Figure B-1).

The primary operation of this facility is fabrication of metal components for a variety of uses around WFO. Facility personnel cut, grind, and weld piping indoors and occasionally store metal piping outdoors, which is covered with heavy duty tarps. Metal fabrication may be performed indoors and/or outdoors.

Outdoor activities at the facility include the following:

- Use of loading area 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.

Outfalls

Outfall 079: Is representative of all stormwater runoff associated with the facility. Stormwater discharges from the facility to Arroyo de la Delfe (Above Kieling Spring to headwaters), which is a tributary of the Rio Grande located approximately 9.5 miles east of the facility.

1.4 General Location Map

The general location map for the facility can be found as Figure A. Figures B-1 and B-2 contain the site and nearby receiving waters maps associated with stormwater discharges from TA-09-0214. 100% of the site flows to Arroyo de la Delfe (Above Kielling Spring to head waters). The canyon at this location is an ephemeral stream and eventually flows into the Rio Grande approximately 9.5 miles southeast of the site.

1.5 Site Map

The site map provided as Figure B-1 illustrates the facility's activities including the following: facility boundary, structures, impervious surface, industrial activity areas, operational areas, drainage pattern, stormwater controls, monitoring location, outfall, and nearby receiving water.

As required by the 2021 MSGP, the following information specific to the facility is either shown on the site map or contained within additional information provided in this SWPPP.

- **Site boundaries and acreage.** The site covers approximately 0.67 acres (total).
- **Significant structures and impervious surfaces.** MFS is 16 % (primarily due to a paved lot and structures).
- **Direction of stormwater flow and site drainage.** Direction of flow is indicated with an arrow.
- **Locations of stormwater control measures.** Control measures are identified numerically.
- **Locations of all receiving waters.** Stormwater discharges to Arroyo de la Delfe (Above Kielling Spring to head waters) which is an impaired water. There is no TMDL for this receiving water. A map of nearby receiving waters is provided as Figure B-2.
- **Locations of potential pollutant sources.**
- **Locations of significant spills or leaks.** Refer to Section 2.2 for additional information.
- **Locations of all stormwater monitoring points.**
- **Locations of stormwater inlets and outfalls.**
- This facility is not currently associated with a municipal separate storm sewer system (MS4).
- **Areas of designated critical habitat for endangered or threatened species.** There are none in the direct vicinity of the TA-09-0214. A map for threatened and endangered species within LANL property is included as Figure B-3.
- There are no non-stormwater discharges at the facility (see certification in Attachment 3)
- Locations of the following activities where such activities are exposed to precipitation:
 - loading/unloading areas;
 - locations used for the treatment, storage, or disposal of waste;
 - 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;
 - machinery; and
 - 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 map for the TA-09-214 Metal Fabrication Shop is provided in Figure B-1.

Most industrial activities at the MFS take place indoors, where materials are not exposed to stormwater. Potential stormwater pollutants involve facility materials stored outdoors and fabrication that occurs 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 and vehicle/forklift parking.

The primary metal storage yard (located on the southwest side of the outdoor lot) contains two covered metal storage racks. Large pieces of scrap metal are stored on wooden pallets and kept covered with heavy-duty (28 mil.) tarps.

Vehicle parking is limited to areas adjacent to the north boundary fence line and east of Building 214. The southwest side of the facility is primarily used to transport metal stock or finished metal products to and from the shop.

2.1 Potential Pollutants Associated with Industrial Activity

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

Covered Metal Raw Material Storage Area (Metal Storage Yard)

Potential pollutants include metals exposed to precipitation (rust).

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.

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

No SWMU is located within the boundary of the MFS.

2.2 Spills and Leaks

There was one spill in 2022. The spill summary is contained in Table 1A below.

Table 1A: Spill and Leak History

Date	Description	Outfall(s) Affected
4/20/22	WFO personnel were filling the hydraulic reservoir and testing the Trail EZE trailer (E02525T) when approximately 2 quarts exited through a vent tube. The onsite personnel isolated the spill, applied absorbents to the area, and wiped down the equipment. Twenty gallons of waste was generated.	079

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

Specific Equipment/Industrial Activity Areas and Location	Outfalls Affected
Metal Storage Yard	079
Vehicle Parking	079
Loading and Unloading Operations	079

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.

The “Certification of No Unauthorized Stormwater Discharges” 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

An historical data summary is provided in the table below.

Permitted Facility: TA-09-0214 Metal Fabrication Shop

Calendar Year (CY) 2022

Monitored Outfall	Discontinue Monitoring		Continue Monitoring						
	Average of four monitoring values did not exceed benchmark; quarterly monitoring discontinued until year 4 per Part 4.2.2.3.	Impaired water constituent was not detected in storm water discharge; annual monitoring discontinued until year 4 per Part 4.2.5.1.	Benchmark Monitoring Status				Indicator parameter monitoring required annually for entirety of permit.	Impaired water constituent was detected. Continue monitoring annually.	Impaired water constituent monitoring required in year 4.
			Baseline	AIM Level 1	AIM Level 2	AIM Level 3			
079	—	Total Aroclors	Al, NO3+NO2-N, Zn	—	—	—	N/A ¹	Adjusted Gross Alpha, Al, Cu	—

¹N/A=Not applicable. No indicator parameter monitoring required.

AIM=Additional Implementation Measures

Al=Aluminum

Zn=Zinc

NO3+NO2-N=Nitrate plus Nitrite Nitrogen

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 the outdoor dock area and yard, or from vehicle parking in the east lot. 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 D of the 2021 MSGP. The sector specific requirements only apply to those areas of the facility where the sector-specific activities occur.

The following sector-specific non-numeric effluent limits are addressed at this facility.

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 a 13-gallon aluminum container and stored until full. When full, it is transported to a covered metal recycle roll-off bin located at TA-16. Once the roll-off bin is $\frac{3}{4}$ full it is scheduled for transport to the TA-60 Material Recycling Facility. Excess piping and other metals are either placed on covered elevated racks or on pallets covered with tarps in the southwest metals storage yard. 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.

Storage Areas for Raw Metal

The primary outside metal storage area is the raw metal storage area. 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. An additional storage area containing pipe storage racks and miscellaneous metal storage, is maintained in a neat manner. All raw metals stored at the site are covered with tarps.

Metal Working Fluid Storage Area

Cutting and drilling fluids and oils used at the facility are stored in Building 0214. The room is fully enclosed. This area is not exposed to precipitation.

Painting Operations

Painting only occurs outside to minimize fumes from the new paint. Oil-based paint can be applied when the temperatures are between 40°-90°F and latex paint can be applied between 50°-85°F. Painting is only conducted on clear days, with wind less than 10 miles per hour and utilizing tarps to minimize exposure.

Lubricating Oil and Hydraulic Fluid Operations

All operations occur inside to prevent stormwater contamination. The metal recycle roll-off bin located at TA-16 is covered to prevent stormwater from contacting metal chips and turnings with cutting oil residue.

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.

Spills and leaks that occurred after March 1, 2021, the effective date of the 2021 MSGP, are summarized in Table 1A. Spills and leaks that occurred prior to March 1, 2021, are documented in previous SWPPP revisions.

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 TA-09-0214, 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® 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 shop. Metal fabrication activities occur inside. Specific structural controls are listed below:

Spill Control

Craft vehicles are monitored on a regular basis for leaks and checked during monthly routine facility inspections. If spills or leaks are found, absorbent materials are immediately used to contain the leak. The spill procedures listed in Section 3.1.4 are also followed.

Trash Dumpsters

Trash 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.

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 the 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 TA-09-0028, Heavy Equipment Shop.

Run-off Control

FilterSoxx wattles were installed around the outdoor metal storage yard in 2021 to slow run-off and to channel stormwater to the monitored outfall and stormwater controls. These wattles also prevent offsite sediment migration. Whenever these wattles 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.

3.1.2 Good Housekeeping

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

Sweep or vacuum at regular intervals or, alternatively, wash down the area and collect and/or treat, and properly dispose of the wash-down water.

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.

The paved area to the south is 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 TA-09-0214 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. Scrap metal is contained inside a covered metal recycle roll-off bin located at TA-16. 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 30 cubic yard scrap metal roll-off bin. Receptacles used to collect chips, turnings and small metal pieces are emptied into 13-gallon aluminum containers within MFS, which are then transferred to the larger roll-off bin located at TA-16.

Transportainers, 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.

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 the control measure, 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.

3.1.4 Spill Prevention and Response

Spills, leaks, or releases are prevented and minimized 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 214 at the MFS. Micro-Blaze® is kept at TA-15-0446.

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 Response (EM-RESP) and/or the Facility Duty Officer by calling 667-2400. If fire or explosion is present, or if the potential for such exists, the situation must be reported by dialing 911 from a non-cellular phone or by activating a fire pull box. In the event of a spill, EM-RESP will coordinate appropriate cleanup procedures and EPC-CP will notify the individuals or organizations responsible for completing spill reports and providing information needed to fulfill regulatory reporting requirements.

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

the type of reporting required. EPC-CP-QP-0903, *Environmental Reporting Requirements for Releases or Events* is used for this purpose (see Attachment 21).

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

3.1.5 Erosion and Sediment Control

The entire outside area around TA-09-0214 is associated with the shop, except for small plots of grass adjacent to the buildings, and areas that are paved with asphalt. Therefore, erosion and sediment transport is unlikely. Vacuum sweeping of applicable asphalt areas around 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-09-0214 is minimized by the FilterSoxx wattles installed around the perimeter of the area. The rip rap along the northern perimeter of the site manages sediment by reducing the potential for offsite sediment migration.

3.1.6 Management of Runoff

Runoff generated from the MFS is minimal and is managed by a vegetative buffer, gravel mulch and rip rap on the east, and vegetation to the north.

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

3.1.7 Salt Storage Piles or Piles Containing Salt

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

3.2 Numeric Effluent Limitations Based on Effluent Limitations Guidelines

The TA-09-0214 Shop is classified under Sector AA-Fabricated Metal Products and do not meet the industrial category requirements for effluent monitoring as listed in Part 1.2.1.4 (*Table 1-1 Applicable Effluent Limitations Guidelines*) of the 2021 MSGP.

3.3 Water Quality-Based Effluent Limitations and Water Quality Standards

Impaired waters monitoring is performed annually at the facility as listed in Section 4.7 of this SWPPP. The pollutants monitored can change yearly based on the requirements of the MSGP. The table in Section 4.7 lists the current year (2022) 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-09-0214 Shop discharges to Arroyo de la Delfe (Above Kielling Spring to headwaters). Certain stream reaches within Arroyo de la Delfe (Above Kielling Spring to headwaters) have been identified as impaired waters by the NMED Surface Water Quality Bureau. According to the 2022-2024 State of New Mexico Clean Water Act 303b/305b Integrated Report and Final List of Assessed Surface Waters, pollutants causing the impairment are listed as Total Recoverable Aluminum, Adjusted Gross Alpha, PCBs (Aroclors), and Dissolved Copper. EPA has not yet approved or established TMDLs for Arroyo de la Delfe (Above Kielling Spring to headwaters).

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 of pollutants 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 6.5.4 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, EPC Program Lead 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 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 are considered official use only (OUO). All training records will be managed in accordance with P204-1,

Controlled Unclassified Information. Information on employees receiving training is available upon request.

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

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

4.6 Routine Facility Inspections and Quarterly Visual Assessments

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

Visual assessments are conducted in accordance with EPC-CP-QP-2105, *MSGP Stormwater Visual Assessments* (Attachment 18).

4.6.1 Routine Facility Inspections

At least once each calendar year, the routine facility inspection is conducted during a period when a stormwater discharge is occurring. A qualified member of the PPT (typically the DEP, a representative from the EPC-CP Storm Water Permitting/Compliance Team or EPC-CP Program Lead) performs the inspection. EPC-CP, along with the DEP, performs at least one routine facility inspection per year at the facility.

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

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

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

The visual assessment will 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 assessments is not conducted:

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

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

For facilities with SIDP, quarterly visual assessments may be performed at only one of the outfalls, provided that you perform visual inspections on a rotating basis at each substantially identical outfall (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 conditions 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 for this site is comprised of Impaired Waters and quarterly benchmark monitoring for industrial activity as identified in Table 4-1 of the 2021 MSGP. Monitoring occurs when a storm event results in an actual discharge from the site and follows the preceding measurable storm event by at least

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

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

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

Monitoring for the MFS occurs at automated sampling station MSGP07901 as identified in Section 1.5. The automated sampler and outfall location is shown on the site map provided in Figure B-1. For impaired waters pollutants, monitoring is required annually in the first and fourth year of permit coverage. If any pollutant associated with the impairment is detected, annual monitoring will continue.

The primary contributors of potential pollutants to stormwater discharges include metal storage, chips and turnings, and cutting oil. Leaks and spills can occur from the product storage area or vehicles in the area.

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

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

- Review the selection, design, installation, and implementation of control measures to determine if modifications are necessary to meet the effluent limits;
- Implement the necessary modifications within the timeframe specified for corrective action; and
- Continue annual monitoring of the constituent (as required by Part 4.2.5.1 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 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 New Mexico Administrative Code; and as set forth in Part 9.6.2.2 of the 2021 MSGP.

4.7 Required Monitoring for CY2023

Monitored Outfall	Monitoring Requirement	Industrial Sector	Assessment Unit	Analyte	Filtered/ Unfiltered	Regulatory Standard	Units	Regulatory Standard Type	Regulatory Standard Reference
079	Quarterly Benchmark	AA	—	Al	F10u ¹	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
	Quarterly Benchmark	AA	—	Zn	F ²	66	µg/L	NM 2010 Aquatic Acute 50 mg	20.6.4.900 NMAC Subpart I
	Impaired Waters	—	NM-128.A_16	Al	F10u ¹	N/A	µg/L	Report Only	Part 4.2.5.1
	Impaired Waters	—	NM-128.A_16	Cu	F ²	N/A	µg/L	Report Only	Part 4.2.5.1
	Impaired Waters	—	NM-128.A_16	Adjusted Gross Alpha	UF	N/A	pCi/L	Report Only	Part 4.2.5.1

¹F10u – 10 µm filter

²F - 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

NM=New Mexico

NMAC=New Mexico Administrative Code

Cu=Copper

pCi/L=Picocuries per Liter

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 2021 MSGP requires areas of designated critical habitat for endangered or threatened species, as applicable, be included in the SWPPP. The *Threatened and Endangered Species Habitat Management Plan for Los Alamos National Laboratory* (LA-UR-22-20556) was last updated in April 2022 (see Attachment 13). This document provides a management strategy for the protection of threatened and endangered species and their habitats on LANL property. The MSGP Information for Planning and Consultation (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-09-0214 Metal Fabrication Shop
- TA-03-0038 Metals Fabrication Shop
- TA-60 Asphalt Batch Plant
- TA-60-0001 Heavy Equipment Yard
- TA-60 Material Recycle Facility
- TA-60 Roads and Grounds
- TA-60-0002 Warehouse
- TA-16 Stockpile Area

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 necessary to meet the benchmark threshold for the parameter that exceeded.

Note: An AIM triggering event is outfall and parameter specific.

After reviewing the SWPPP, additional measures, considering good engineering practices, will be implemented, that will reasonably be expected to bring the exceedance below the parameter's benchmark threshold.

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

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

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

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

6.3.2 AIM Level 2

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

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

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

6.3.3 AIM Level 3

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

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

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

6.3.4 AIM Exceptions

Any AIM Level exceedance may qualify for an exception from specific AIM requirements and continued benchmark monitoring after four quarters of monitoring, provided the requirements to demonstrate qualification of the exception are followed (see Parts 5.2.6.1 through 5.2.6.5 of the permit). These exceptions include the following for benchmark exceedances:

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

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

6.4 Corrective 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-2109, *MSGP Corrective Actions* can be found in Attachment 17.

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

7.0 ACRONYMS

AIM	Additional Implementation Measures
BMP	Best Management Practice
CAR	Corrective Action Report
CY	Calendar Year
DEP	Deployed Environmental Professional
DESH	Deployed Environmental Safety and Health
DOE	Department of Energy
EIS	Environmental Impact Statement
ELG	Effluent Limitation Guidelines
EM-RESP	Emergency Management Response
EPA	Environmental Protection Agency
EPC-CP	Environmental Protection and Compliance – Compliance Programs
FOD	Facility Operations Division
IPaC	Information for Planning and Consultation
LANL or the Laboratory	Los Alamos National Laboratory
LOG-CS	Logistics-Central Shops
MFS	Metal Fabrication Shop
MRF	Material Recycling Facility
MSGP or Permit	Multi-Sector General Permit
NMED	New Mexico Environment Department
NPDES	National Pollutant Discharge Elimination System
OUO	Official Use Only
PCBs	Polychlorinated Biphenyls
PPT	Pollution Prevention Team
SCM	Stormwater Control Measure
SIDP	Substantially Identical Discharge Points
SWMU	Solid Waste Management Unit
SWPPP	Stormwater Pollution Prevention Plan
Triad	Triad National Security, LLC
WFO	Weapons Facility Operations

8.0 SWPPP CERTIFICATION

STORMWATER POLLUTION PREVENTION PLAN
TA-09-214 Metal Fabrication Shop
Los Alamos National Laboratory

CERTIFICATION STATEMENT

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information 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

 332752

Date

1/11/23

Derek Clark
Operations Manager 6, WFO FOD
Weapons Facilities Operations

FIGURE A: GENERAL LOCATION MAP

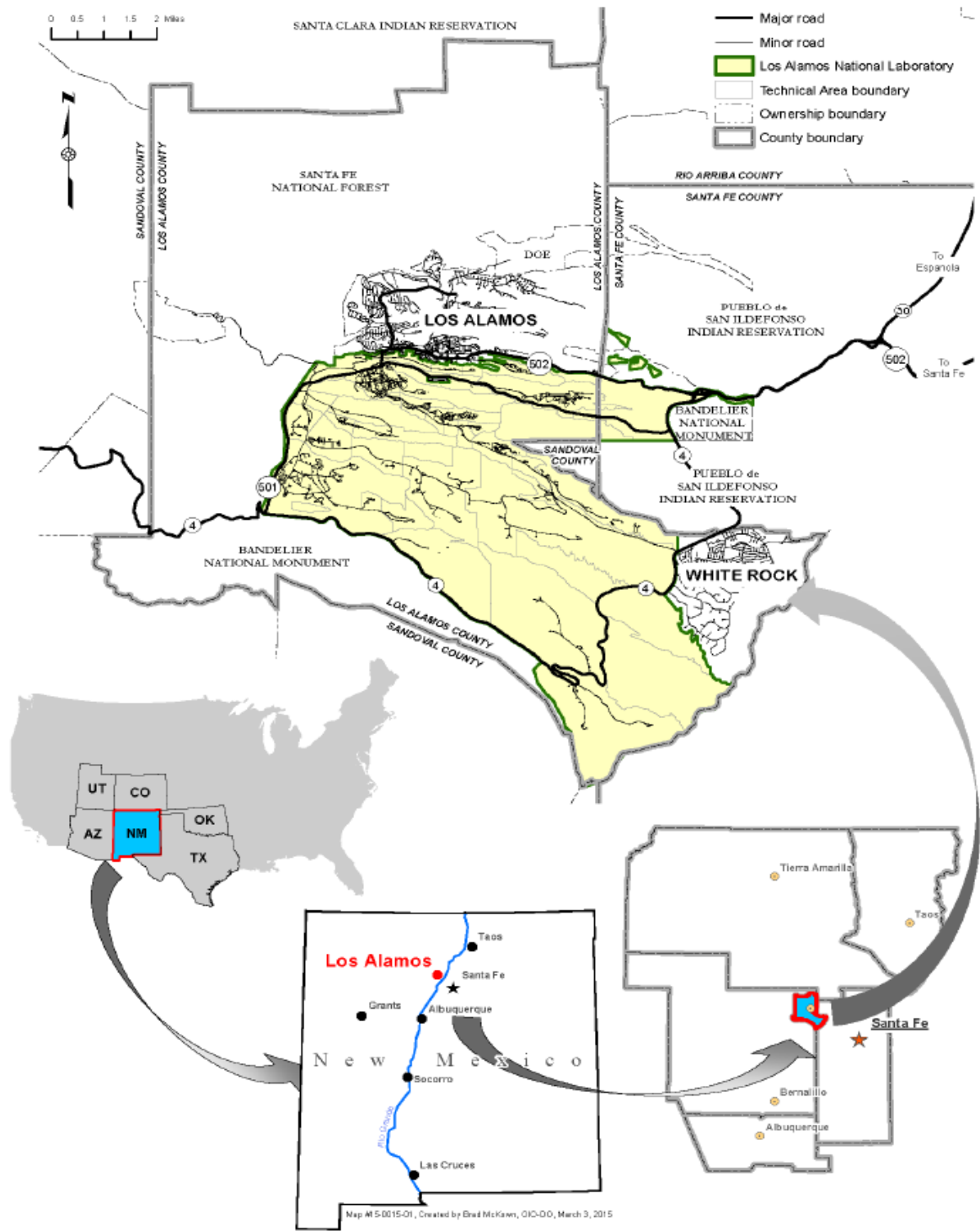


FIGURE B-1: FACILITY SITE MAP METAL FABRICATION SHOP

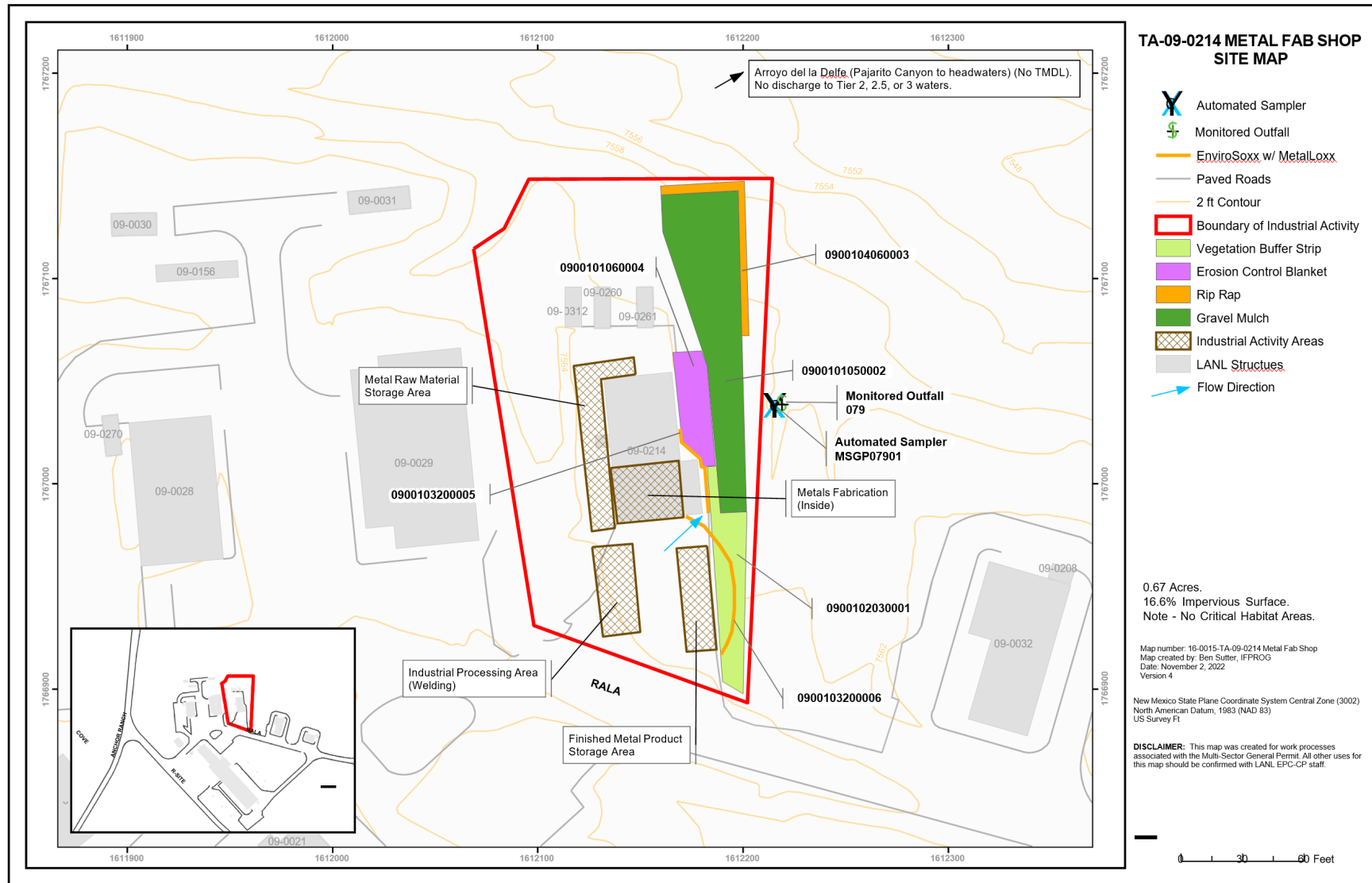


FIGURE B-2: NEARBY RECEIVING WATERS

TA-09-0214 Receiving Waters Map



LANL_Employee

FIGURE B-3: ENDANGERED SPECIES MAP



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

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



2021-06-25

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

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

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

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

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

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

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

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

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

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

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

From: no-reply@epacdx.net
To: no-reply@epacdx.net
Subject: [EXTERNAL] EPA NeT MSGP Coverage Status Change: Active; LOS ALAMOS NATIONAL LABORATORY - NPDES ID: NMR050013
Date: Friday, June 25, 2021 4:00:27 PM

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 [here](#).

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 [NeT Help Center](#) or e-mail NPDESereporting@epa.gov for assistance.

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

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

2021-06-25

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

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

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

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

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

Listed below is a summary of your monitoring requirements:

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

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

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

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

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

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

Permit Information

Master Permit Number: NMR050000NPDES ID: NMR050013

Eligibility Information

State/territory where your facility is discharging: NMDoes your facility discharge to federally recognized Indian Country lands? NoAre 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)?YesWhich 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.

YesAre you a new discharger or a new source as defined in Appendix A (https://www.epa.gov/sites/production/files/2021-01/documents/2021_msgp_-_appendix_a_-_definitions.pdf)?No➔ Have stormwater discharges from your facility been covered previously under an NPDES permit? Yes

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

NMR050013➔ Are you discharging to any waters of the U.S. that are designated by the state or tribal authority under its antidegradation policy as a Tier 3 water (Outstanding National Resource water)? (See Appendix L (https://www.epa.gov/sites/production/files/2021-01/documents/2021_msgp_-_appendix_l_-_list_of_tier_3_tier_2_and_tier_2.5_waters.pdf))NoDo you anticipate the discharge of groundwater or spring water from your facility? NoWhat 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 LLCWhat is the name of your facility or activity as defined in Appendix A (https://www.epa.gov/sites/production/files/2021-01/documents/2021_msgp_-_appendix_a_-_definitions.pdf)?LOS ALAMOS NATIONAL LABORATORY

Operator Information

Operator Information

Operator Name: Triad National Security LLC

Operator Mailing Address

Address Line 1: PO Box 1663

Address Line 2: MS K490

City: Los Alamos

ZIP/Postal Code: 87545

State: NM

County or Similar Division: Los Alamos

Operator Point of Contact Information

First Name Middle Initial Last Name: TERRILL . LEMKE

Title: Environmental Manager

Phone: 5056652397

Ext.:

Email: tlemke@lanl.gov

NOI Preparer Information

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

First Name Middle Initial Last Name: Holly L Wheeler

Organization: Triad National Security LLC

Phone: 505-667-1312

Ext.:

Email: hbenson@lanl.gov

Facility Information

Facility Information

Facility Name: LOS ALAMOS NATIONAL LABORATORY

Facility Address

Address Line 1: PO BOX 1663

Address Line 2: MS K490

City: LOS ALAMOS

ZIP/Postal Code: 87545

State: NM

County or Similar Division: Los Alamos

Latitude/Longitude for the Facility

Latitude/Longitude: 35.872777°N, 106.321127°W

Latitude/Longitude Data Source: GIS

Horizontal Reference Datum: WGS 84

General Facility Information

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

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

Is your facility presently inactive and unstaffed? No

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

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

Sector-Specific Information

Primary Sector: P

Primary Subsector: P1

Primary SIC Code: 4212

Co-Located Sectors:

Co-Located Sector: D

Co-Located Subsector: D1

Co-Located SIC Code: 2951

Co-Located Sector: N

Co-Located Subsector: N2

Co-Located SIC Code: 5093

Co-Located Sector: AA

Co-Located Subsector: AA1

Co-Located SIC Code: 3499

Discharge Information

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

Yes

Federal Effluent Limitation Guidelines

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

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

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

Other Discharge Information

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

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

Receiving Waters Information

List all of the stormwater discharge points from your facility.

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

Applicable Sectors

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

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

Latitude/Longitude: 35.873193°N, 106.313116°W

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

➔ Substantially Identical to Discharge Point ID: 022

Receiving Water

GNIS Name:

Waterbody Name:

SANDIA CANYON (SIGMA CANYON TO NPDES OUTFALL 001)

Listed Water ID:

NM-9000.A_047

Is this receiving water saltwater or freshwater? Freshwater

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

No

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

No

Benchmark Monitoring

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

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

(mg/L)

Impaired Waters Monitoring

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

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

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

Has a TMDL been completed for this receiving waterbody? No

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

Applicable Sectors

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

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

Latitude/Longitude: 35.873046°N, 106.315069°W

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

➔ Substantially Identical to Discharge Point ID: 022

Receiving Water

GNIS Name:

Waterbody Name:

SANDIA CANYON (SIGMA CANYON TO
NPDES OUTFALL 001)

Listed Water ID:

NM-9000.A_047

Is this receiving water saltwater or freshwater? Freshwater

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

No

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

No

Benchmark Monitoring

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

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

(mg/L)

Impaired Waters Monitoring

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

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

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

Has a TMDL been completed for this receiving waterbody? No

Discharge Point 039: TA-60 Roads and Grounds

Applicable Sectors

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

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

Latitude/Longitude: 35.867826°N, 106.291726°W

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

Receiving Water

GNIS Name:

Waterbody Name:

SANDIA CANYON (SIGMA CANYON TO
NPDES OUTFALL 001)

Listed Water ID:

NM-9000.A_047

Is this receiving water saltwater or freshwater? Freshwater

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

No

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

No

Benchmark Monitoring

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

Impaired Waters Monitoring

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

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

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

Has a TMDL been completed for this receiving waterbody? No

Discharge Point 032: TA-60 Roads and Grounds

Applicable Sectors

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

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

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

Latitude/Longitude: 35.870741°N, 106.306812°W

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

Receiving Water

GNIS Name:

Waterbody Name:

SANDIA CANYON (SIGMA CANYON TO
NPDES OUTFALL 001)

Listed Water ID:

NM-9000.A_047

Is this receiving water saltwater or freshwater? Freshwater

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

No

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

No

Benchmark Monitoring

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

Impaired Waters Monitoring

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

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

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

Has a TMDL been completed for this receiving waterbody? No

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

Applicable Sectors

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

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

Latitude/Longitude: 35.870603°N, 106.306055°W

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

➔ Substantially Identical to Discharge Point ID: 032

Receiving Water

GNIS Name:

Waterbody Name:

SANDIA CANYON (SIGMA CANYON TO NPDES OUTFALL 001)

Listed Water ID:

NM-9000.A_047

Is this receiving water saltwater or freshwater? Freshwater

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

No

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

No

Benchmark Monitoring

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

Impaired Waters Monitoring

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

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

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

Has a TMDL been completed for this receiving waterbody? No

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

Applicable Sectors

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

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

Latitude/Longitude: 35.872505°N, 106.313542°W

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

➔ Substantially Identical to Discharge Point ID: 026

Receiving Water

GNIS Name:

Waterbody Name:

SANDIA CANYON (SIGMA CANYON TO NPDES OUTFALL 001)

Listed Water ID:

NM-9000.A_047

Is this receiving water saltwater or freshwater? Freshwater

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

No

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

No

Benchmark Monitoring

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

Impaired Waters Monitoring

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

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

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

Has a TMDL been completed for this receiving waterbody? No

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

Applicable Sectors

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

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

Latitude/Longitude: 35.870474°N, 106.305432°W

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

➔ Substantially Identical to Discharge Point ID: 032

Receiving Water

GNIS Name:

Waterbody Name:

SANDIA CANYON (SIGMA CANYON TO NPDES OUTFALL 001)

Listed Water ID:

NM-9000.A_047

Is this receiving water saltwater or freshwater? Freshwater

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

No

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

No

Benchmark Monitoring

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

Impaired Waters Monitoring

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

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

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

Has a TMDL been completed for this receiving waterbody? No

Discharge Point 043: TA-60 Asphalt Batch Plant

Applicable Sectors

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

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

36.166667 Longitude -106.290165°W

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

Receiving Water

GNIS Name:

Waterbody Name:

MORTANDAD CANYON (WITHIN LANL)

Listed Water ID:

NM-9000.A_042

Is this receiving water saltwater or freshwater? Freshwater

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

No

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

No

Benchmark Monitoring

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

Impaired Waters Monitoring

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

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

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

Has a TMDL been completed for this receiving waterbody? No

Discharge Point 031: TA-60 Roads and Grounds

Applicable Sectors

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

Sector	Subsector	SIC/Activity Code

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

Latitude/Longitude: 35.869227°N, 106.305685°W

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

Receiving Water

GNIS Name:

Waterbody Name:

MORTANDAD CANYON (WITHIN LANL)

Listed Water ID:

NM-9000.A_042

Is this receiving water saltwater or freshwater? Freshwater

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

No

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

No

Benchmark Monitoring

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

Impaired Waters Monitoring

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

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

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

Has a TMDL been completed for this receiving waterbody? No

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

Applicable Sectors

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

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

Latitude/Longitude: 35.870712°N, 106.306443°W

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

➔ Substantially Identical to Discharge Point ID: 032

Receiving Water

GNIS Name:

Waterbody Name:

SANDIA CANYON (SIGMA CANYON TO
NPDES OUTFALL 001)

Listed Water ID:

NM-9000.A_047

Is this receiving water saltwater or freshwater? Freshwater

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

No

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

No

Benchmark Monitoring

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

Impaired Waters Monitoring

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

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

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

Has a TMDL been completed for this receiving waterbody? No

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

Applicable Sectors

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

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

Latitude/Longitude: 35.872401°N, 106.313391°W

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

➔ Substantially Identical to Discharge Point ID: 026

Receiving Water

GNIS Name:

Waterbody Name:

SANDIA CANYON (SIGMA CANYON TO
NPDES OUTFALL 001)

Listed Water ID:

NM-9000.A_047

Is this receiving water saltwater or freshwater? Freshwater

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

No

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

No

Benchmark Monitoring

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

Impaired Waters Monitoring

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

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

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

Has a TMDL been completed for this receiving waterbody? No

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

Applicable Sectors

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

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

Latitude/Longitude: 35.869325°N, 106.306926°W

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

➔ Substantially Identical to Discharge Point ID: 031

Receiving Water

GNIS Name:

Waterbody Name:
MORTANDAD CANYON (WITHIN LANL)

Listed Water ID:
NM-9000.A_042

Is this receiving water saltwater or freshwater? Freshwater

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

No

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

No

Benchmark Monitoring

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

Impaired Waters Monitoring

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

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

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

Has a TMDL been completed for this receiving waterbody? No

Discharge Point 029: TA-60 Metals Recycling Facility

Applicable Sectors

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

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

<input type="checkbox"/>	AA - FABRICATED METAL PRODUCTS	AA1 - Fabricated Metal Products, Except Machinery and Transportation Equipment, and Coating, Engraving, and Allied Services; Jewelry, Silverware, and Plated Ware	3499
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Latitude/Longitude: 35.873969°N, 106.313281°W

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

Receiving Water

GNIS Name:

Waterbody Name:

SANDIA CANYON (SIGMA CANYON TO
NPDES OUTFALL 001)

Listed Water ID:

NM-9000.A_047

Is this receiving water saltwater or freshwater? Freshwater

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

No

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

No

Benchmark Monitoring

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

Impaired Waters Monitoring

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

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

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

Has a TMDL been completed for this receiving waterbody? No

Discharge Point 075: TA-60-2 Warehouse

Applicable Sectors

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

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

Latitude/Longitude: 35.871154°N, 106.31294°W

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

Receiving Water

GNIS Name:

Waterbody Name:

SANDIA CANYON (SIGMA CANYON TO
NPDES OUTFALL 001)

Listed Water ID:

NM-9000.A_047

Is this receiving water saltwater or freshwater? Freshwater

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

No

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

No

Benchmark Monitoring

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

Impaired Waters Monitoring

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

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

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

Has a TMDL been completed for this receiving waterbody? No

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

Applicable Sectors

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

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

Latitude/Longitude: 35.872514°N, 106.313562°W

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

➔ Substantially Identical to Discharge Point ID: 022

Receiving Water

GNIS Name:

Waterbody Name:

SANDIA CANYON (SIGMA CANYON TO
NPDES OUTFALL 001)

Listed Water ID:

NM-9000.A_047

Is this receiving water saltwater or freshwater? Freshwater

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

No

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

No

Benchmark Monitoring

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

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

(mg/L)

Impaired Waters Monitoring

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

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

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

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

Has a TMDL been completed for this receiving waterbody? No

Discharge Point 042: TA-60 Roads and Grounds

Applicable Sectors

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

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

Latitude/Longitude: 35.867047°N, 106.289163°W

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

Receiving Water

GNIS Name:

Waterbody Name:

SANDIA CANYON (SIGMA CANYON TO NPDES OUTFALL 001)

Listed Water ID:

NM-9000.A_047

Is this receiving water saltwater or freshwater? Freshwater

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

No

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

No

Benchmark Monitoring

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

Impaired Waters Monitoring

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

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

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

Has a TMDL been completed for this receiving waterbody? No

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

Applicable Sectors

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

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

Latitude/Longitude: 35.872661°N, 106.313691°W

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

Receiving Water

GNIS Name:

Waterbody Name:

SANDIA CANYON (SIGMA CANYON TO NPDES OUTFALL 001)

Listed Water ID:

NM-9000.A_047

Is this receiving water saltwater or freshwater? Freshwater

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

No

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

No

Benchmark Monitoring

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

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

(mg/L)

Impaired Waters Monitoring

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

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

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

Has a TMDL been completed for this receiving waterbody? No

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

Applicable Sectors

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

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

<input checked="" type="checkbox"/>	AA - FABRICATED METAL PRODUCTS	AA1 - Fabricated Metal Products, Except Machinery and Transportation Equipment, and Coating, Engraving, and Allied Services; Jewelry, Silverware, and Plated Ware	3499
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Latitude/Longitude: 35.872928°N, 106.3154°W

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

➔ Substantially Identical to Discharge Point ID: 022

Receiving Water

GNIS Name:

Waterbody Name:

SANDIA CANYON (SIGMA CANYON TO
NPDES OUTFALL 001)

Listed Water ID:

NM-9000.A_047

Is this receiving water saltwater or freshwater? Freshwater

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

No

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

No

Benchmark Monitoring

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

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

Impaired Waters Monitoring

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

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

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

Has a TMDL been completed for this receiving waterbody? No

Discharge Point 026: TA-60-2 Warehouse

Applicable Sectors

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

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

Latitude/Longitude: 35.872114°N, 106.313105°W

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

Receiving Water

GNIS Name:

Waterbody Name:

SANDIA CANYON (SIGMA CANYON TO
NPDES OUTFALL 001)

Listed Water ID:

NM-9000.A_047

Is this receiving water saltwater or freshwater? Freshwater

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

No

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

No

Benchmark Monitoring

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

Impaired Waters Monitoring

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

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

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

Has a TMDL been completed for this receiving waterbody? No

Discharge Point 037: TA-60 Roads and Grounds

Applicable Sectors

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

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

Latitude/Longitude: 35.867859°N, 106.292992°W

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

Receiving Water

GNIS Name:

Waterbody Name:

SANDIA CANYON (SIGMA CANYON TO NPDES OUTFALL 001)

Listed Water ID:

NM-9000.A_047

Is this receiving water saltwater or freshwater? Freshwater

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

No

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

No

Benchmark Monitoring

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

Impaired Waters Monitoring

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

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

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

Has a TMDL been completed for this receiving waterbody? No

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

Applicable Sectors

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

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

Latitude/Longitude: 35.875851°N, 106.327924°W

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

Receiving Water

GNIS Name:

Waterbody Name:

SANDIA CANYON (SIGMA CANYON TO NPDES OUTFALL 001)

Listed Water ID:

NM-9000.A_047

Is this receiving water saltwater or freshwater? Freshwater

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

No

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

No

Benchmark Monitoring

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

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

(mg/L)

Impaired Waters Monitoring

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

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

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

Has a TMDL been completed for this receiving waterbody? No

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

Applicable Sectors

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

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

Latitude/Longitude: 35.869722°N, 106.300833°W

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

Receiving Water

GNIS Name:

Waterbody Name:

SANDIA CANYON (SIGMA CANYON TO
NPDES OUTFALL 001)

Listed Water ID:

NM-9000.A_047

Is this receiving water saltwater or freshwater? Freshwater

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

No

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

No

Benchmark Monitoring

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

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

(mg/L)

Impaired Waters Monitoring

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

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

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

Has a TMDL been completed for this receiving waterbody? No

Discharge Point 078: TA-16 Stockpile Yard

Applicable Sectors

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

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

Latitude/Longitude: 35.846944°N, 106.344722°W

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

Receiving Water

GNIS Name:

Waterbody Name:

CA^{ON} 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	Pollutant
RADIATION	Alpha, gross adjusted

Has a TMDL been completed for this receiving waterbody? No

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

Applicable Sectors

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

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

Latitude/Longitude: 35.85678°N, 106.345631°W

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

Receiving Water

GNIS Name:

Waterbody Name:

ARROYO DE LA DELFE (PAJARITO
CANYON TO HEADWATERS)

Listed Water ID:

NM-128.A_16

Is this receiving water saltwater or freshwater? Freshwater

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

No

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

No

Benchmark Monitoring

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

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

(mg/L)

Impaired Waters Monitoring

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

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

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

Has a TMDL been completed for this receiving waterbody? No

SWPPP Information

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

SWPPP Contact Information:

First Name Middle Initial Last Name: Holly . Wheeler

Phone: 5056671312 Ext.:

Email: hbenson@lanl.gov

SWPPP Availability:

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

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

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

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

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

☐ Option 3: Provide the following information from your SWPPP:

Endangered Species Protection Worksheet: Criterion D

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

Determine ESA Eligibility Criterion

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

No

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

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

Yes

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

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

True

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

True

You are eligible under **Criterion D**

Identify the federal action agency(ies) involved:




- ☒ U.S. Fish and Wildlife Services
- ☐ National Marine Fisheries Service

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

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

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

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

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

Historic Preservation: Criterion B

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

- State Historic Preservation Office (SHPO) (<https://www.nps.gov/subjects/nationalregister/state-historic-preservation-offices.htm>)
- Tribal Historic Preservation Office (THPO) (https://www.nps.gov/history/tribes/Tribal_Historic_Preservation_Officers_Program.htm)

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

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

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

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

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

Yes

You are eligible under **Criterion B**.

Certification Information

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

Certified By: Jennifer pay ne

Certifier Title: Division Leader

Certifier Email: jpay ne@lanl.gov

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



United States Department of the Interior

FISH AND WILDLIFE SERVICE

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

February 12, 1999

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

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

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

Dear Mr. Gurule:

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

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

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

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

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

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

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

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

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

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

David A. Gurule, Acting Area Manager

4

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

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

Sincerely,



Jennifer Fowler-Propst
Field Supervisor

cc:

Teralene Foxx, Project Manager, Ecology Group, Los Alamos National Laboratory,
P.O. Box 1663, Mail Stop M887, Los Alamos, New Mexico 87545
Elizabeth Withers, U.S. Department of Energy, Los Alamos Area Office, 35th Street, Los
Alamos, New Mexico
Field Supervisor, Ecological Services, U.S. Fish and Wildlife Service, Phoenix,
Arizona



United States Department of the Interior

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

December 9, 2013

Cons. #02ENNM00-2014-I-0014

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

Dear Mr. Beausoleil:

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

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

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

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

Fuels Management Practices to Reduce Wildfire Risk

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

Utility Corridors

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


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

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

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

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

Sincerely,


Wally Murphy
Field Supervisor

cc:

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



United States Department of the Interior

FISH AND WILDLIFE SERVICE

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



August 6, 2015

Cons. # 02ENNM00-2015-I-0538

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

Dear Ms. Lebak:

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

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

Kimberly Davis Lebak, Manager

2

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

Sincerely,

for Wally Murphy
Field Supervisor

cc:

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

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

2022-10-28

Dear NeT User,


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

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

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

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

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

NPDES FORM 3510-6		UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, DC 20460 NOTICE OF INTENT (NOI) FOR STORMWATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY UNDER THE NPDES MULTI-SECTOR GENERAL PERMIT	FORM Approved OMB No. 2040-0300
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Permit Information

Master Permit Number: NMR050000

NPDES ID: NMR050013

Eligibility Information

State/territory where your facility is discharging: NM

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

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

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

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

Are you a new discharger or a new source as defined in Appendix A (https://www.epa.gov/sites/production/files/2021-01/documents/2021_msgp_-_appendix_a_-_definitions.pdf)?
No

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

➔ If yes, provide your most current NPDES ID (i.e., permit tracking number) if you had coverage under EPA's MSGP or the NPDES permit number if you had coverage under an EPA individual permit:
NMR050013

➔ Are you discharging to any waters of the U.S. that are designated by the state or tribal authority under its antidegradation policy as a Tier 3 water (Outstanding National Resource water)? (See Appendix L (https://www.epa.gov/sites/production/files/2021-01/documents/2021_msgp_-_appendix_l_-_list_of_tier_3_tier_2_and_tier_2.5_waters.pdf))
No

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

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

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

Operator Information

Operator Information

Operator Name: Triad National Security LLC

Operator Mailing Address

Address Line 1: PO Box 1663

Address Line 2: MS K490

ZIP/Postal Code: 87545

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

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

First Name Middle Initial Last Name: Holly L Wheeler

Organization: Triad National Security LLC

Phone: 505-667-1312 Ext.:

Email: hbenson@lanl.gov

Facility Information

Facility Information

Facility Name: LOS ALAMOS NATIONAL LABORATORY

Facility Address

Address Line 1: PO BOX 1663

Address Line 2: MS K490

ZIP/Postal Code: 87545

City: LOS ALAMOS

State: NM

County or Similar Division: Los Alamos

Latitude/Longitude for the Facility

Latitude/Longitude: 35.872777°N, 106.321127°W

Latitude/Longitude Data Source: GIS

Horizontal Reference Datum: WGS 84

General Facility Information

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

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

Is your facility presently inactive and unstaffed? No

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

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

Sector-Specific Information

Primary Sector: P

Primary Subsector: P1

Primary SIC Code: 4212

Co-Located Sectors:

Co-Located Sector: D

Co-Located Subsector: D1

Co-Located SIC Code: 2951

Co-Located Sector: N

Co-Located Subsector: N2

Co-Located SIC Code: 5093

Co-Located Sector: AA

Co-Located Subsector: AA1

Co-Located SIC Code: 3499

Discharge Information

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

Yes

Other Discharge Information

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

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

Receiving Waters Information

List all of the stormwater discharge points from your facility.

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

Applicable Sectors

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

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

Federal Effluent Limitation Guidelines:

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

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

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

Latitude/Longitude: 35.873193°N, 106.313116°W

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

➔ Substantially Identical to Discharge Point ID: 022

Receiving Water

GNIS Name:

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

Listed Water ID:
NM-9000.A_047

Is this receiving water saltwater or freshwater? Freshwater

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

No

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

No

Benchmark Monitoring

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

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

Impaired Waters Monitoring

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

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

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

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

Applicable Sectors

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

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

Federal Effluent Limitation Guidelines:


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

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

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

Latitude/Longitude: 35.873046°N, 106.315069°W

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

 Substantially Identical to Discharge Point ID: 022

Receiving Water

GNIS Name:

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

Listed Water ID:
NM-9000.A_047

Is this receiving water saltwater or freshwater? Freshwater

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


No

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

No

Benchmark Monitoring

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

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

(mg/L)

Impaired Waters Monitoring

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

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

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

Discharge Point 032: TA-60 Roads and Grounds

Applicable Sectors

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

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

Federal Effluent Limitation Guidelines:

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

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

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

Latitude/Longitude: 35.870741°N, 106.306812°W

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

Receiving Water

GNIS Name:

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

Listed Water ID:
NM-9000.A_047

Is this receiving water saltwater or freshwater? Freshwater

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

Will you have stormwater discharges from paved surfaces that will be initially sealed or re-sealed with coal-tar sealcoat where industrial activities are located during coverage under this permit?
No

Benchmark Monitoring

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

Impaired Waters Monitoring

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

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

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

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

Applicable Sectors

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

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

Federal Effluent Limitation Guidelines:

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

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

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

Latitude/Longitude: 35.870603°N, 106.306055°W

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

 Substantially Identical to Discharge Point ID: 032

Receiving Water

GNIS Name:

Waterbody Name:

Listed Water ID:

Is this receiving water saltwater or freshwater? Freshwater

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

Will you have stormwater discharges from paved surfaces that will be initially sealed or re-sealed with coal-tar sealcoat where industrial activities are located during coverage under this permit?
No

Benchmark Monitoring

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

Impaired Waters Monitoring

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

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

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

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

Applicable Sectors

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

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

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

Federal Effluent Limitation Guidelines:

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

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

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

Latitude/Longitude: 35.872505°N, 106.313542°W

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

➔ Substantially Identical to Discharge Point ID: 026

Receiving Water

GNIS Name:	Waterbody Name:	Listed Water ID:
	SANDIA CANYON (SIGMA CANYON TO NPDES OUTFALL 001)	<u>NM-9000.A_047</u>

Is this receiving water saltwater or freshwater? Freshwater

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

No

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

No

Benchmark Monitoring

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

Impaired Waters Monitoring

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

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

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

METALS (OTHER THAN MERCURY)	Copper, dissolved [as Cu]	Micrograms per Liter	<u>Yes</u>	<u>No</u>
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Discharge Point 035: TA-60 Roads and Grounds SIO to 032

Applicable Sectors

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

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

Federal Effluent Limitation Guidelines:

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

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

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

Latitude/Longitude: 35.870474°N, 106.305432°W

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

➔ Substantially Identical to Discharge Point ID: 032

Receiving Water

GNIS Name:	Waterbody Name:	Listed Water ID:
	SANDIA CANYON (SIGMA CANYON TO NPDES OUTFALL 001)	<u>NM-9000.A_047</u>

Is this receiving water saltwater or freshwater? Freshwater

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

Will you have stormwater discharges from paved surfaces that will be initially sealed or re-sealed with coal-tar sealcoat where industrial activities are located during coverage under this permit?
No

Benchmark Monitoring

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

Impaired Waters Monitoring

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

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

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

Discharge Point 043: TA-60 Asphalt Batch Plant

Applicable Sectors

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

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

Federal Effluent Limitation Guidelines:

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

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

Subpart A	emulsion facilities			effluent limitation guideline? <u>Yes</u>
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Are you requesting permit coverage for any stormwater discharges subject to effluent limitation guidelines? Yes

Latitude/Longitude: 35.866084°N, 106.290165°W

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

Receiving Water

GNIS Name:	Waterbody Name: <u>MORTANDAD CANYON (WITHIN LANL)</u>	Listed Water ID: <u>NM-9000.A_042</u>
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Is this receiving water saltwater or freshwater? Freshwater

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

No

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

No

Benchmark Monitoring

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

Impaired Waters Monitoring

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

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

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

Discharge Point 031: TA-60 Roads and Grounds

Applicable Sectors

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

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

Federal Effluent Limitation Guidelines:

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

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

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

Latitude/Longitude: 35.869227°N, 106.305685°W

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

Receiving Water

GNIS Name:

Waterbody Name:
MORTANDAD CANYON (WITHIN LANL)

Listed Water ID:
NM-9000.A_042

Is this receiving water saltwater or freshwater? Freshwater

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

No

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

No

Benchmark Monitoring

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

Impaired Waters Monitoring

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

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

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

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

Applicable Sectors

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

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

Federal Effluent Limitation Guidelines:


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

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

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

Latitude/Longitude: 35.870712°N, 106.306443°W

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

 Substantially Identical to Discharge Point ID: 032

Receiving Water

Is this receiving water saltwater or freshwater? Freshwater

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

Will you have stormwater discharges from paved surfaces that will be initially sealed or re-sealed with coal-tar sealcoat where industrial activities are located during coverage under this permit?
No

Benchmark Monitoring

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

Impaired Waters Monitoring

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

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

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

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

Applicable Sectors

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

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

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

Federal Effluent Limitation Guidelines:

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

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

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

Latitude/Longitude: 35.872401°N, 106.313391°W

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

➔ Substantially Identical to Discharge Point ID: 026

Receiving Water

GNIS Name:	Waterbody Name:	Listed Water ID:
	SANDIA CANYON (SIGMA CANYON TO NPDES OUTFALL 001)	<u>NM-9000.A_047</u>

Is this receiving water saltwater or freshwater? Freshwater

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

No

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

No

Benchmark Monitoring

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

Impaired Waters Monitoring

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

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

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

METALS (OTHER THAN MERCURY)	Copper, dissolved [as Cu]	Micrograms per Liter	<u>Yes</u>	<u>No</u>
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Discharge Point 030: TA-60 Roads and Grounds SIO to 031

Applicable Sectors

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

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

Federal Effluent Limitation Guidelines:

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

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

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

Latitude/Longitude: 35.869325°N, 106.306926°W

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

 Substantially Identical to Discharge Point ID: 031

Receiving Water

GNIS Name:

Waterbody Name:
MORTANDAD CANYON (WITHIN LANL)

Listed Water ID:
NM-9000.A_042

Is this receiving water saltwater or freshwater? Freshwater

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

Will you have stormwater discharges from paved surfaces that will be initially sealed or re-sealed with coal-tar sealcoat where industrial activities are located during coverage under this permit?
No

Benchmark Monitoring

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

Impaired Waters Monitoring

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

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

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

Discharge Point 029: TA-60 Metals Recycling Facility

Applicable Sectors

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

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

Federal Effluent Limitation Guidelines:

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

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

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

Latitude/Longitude: 35.873969°N, 106.313281°W

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

Receiving Water

GNIS Name:

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

Listed Water ID:
NM-9000.A_047

Is this receiving water saltwater or freshwater? Freshwater

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

No

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

No

Benchmark Monitoring

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

Impaired Waters Monitoring

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

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

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

Discharge Point 075: TA-60-2 Warehouse

Applicable Sectors

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

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

Federal Effluent Limitation Guidelines:

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

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

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

Latitude/Longitude: 35.871154°N, 106.31294°W

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

Receiving Water

GNIS Name:

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

Listed Water ID:
NM-9000.A_047

Is this receiving water saltwater or freshwater? Freshwater

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

Will you have stormwater discharges from paved surfaces that will be initially sealed or re-sealed with coal-tar sealcoat where industrial activities are located during coverage under this permit?
No

Benchmark Monitoring

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

Impaired Waters Monitoring

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

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

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

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

Applicable Sectors

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

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

Federal Effluent Limitation Guidelines:

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

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

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

Latitude/Longitude: 35.872514°N, 106.313562°W

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

 Substantially Identical to Discharge Point ID: 022

Receiving Water

GNIS Name:	Waterbody Name: SANDIA CANYON (SIGMA CANYON TO NPDES OUTFALL 001)	Listed Water ID: <u>NM-9000.A_047</u>
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Is this receiving water saltwater or freshwater? Freshwater

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

No

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

No

Benchmark Monitoring

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

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

Impaired Waters Monitoring

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

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

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

Discharge Point 042: TA-60 Roads and Grounds

Applicable Sectors

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

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

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

Federal Effluent Limitation Guidelines:

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

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

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

Latitude/Longitude: 35.867047°N, 106.289163°W

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

Receiving Water

GNIS Name:	Waterbody Name:	Listed Water ID:
	SANDIA CANYON (SIGMA CANYON TO NPDES OUTFALL 001)	NM-9000.A_047

Is this receiving water saltwater or freshwater? Freshwater

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

No

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

No

Benchmark Monitoring

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

Impaired Waters Monitoring

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

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

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

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

Applicable Sectors

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

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

Federal Effluent Limitation Guidelines:

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

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

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

Latitude/Longitude: 35.872661°N, 106.313691°W

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

Receiving Water

GNIS Name:

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

Listed Water ID:
NM-9000.A_047

Is this receiving water saltwater or freshwater? Freshwater

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

Will you have stormwater discharges from paved surfaces that will be initially sealed or re-sealed with coal-tar sealcoat where industrial activities are located during coverage under this permit?
No

Benchmark Monitoring

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

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

Impaired Waters Monitoring

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

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

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

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

Applicable Sectors

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

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

Federal Effluent Limitation Guidelines:

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

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

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

Latitude/Longitude: 35.872928°N, 106.3154°W

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

➔ Substantially Identical to Discharge Point ID: 022

Receiving Water

GNIS Name:

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

Listed Water ID:
NM-9000.A_047

Is this receiving water saltwater or freshwater? Freshwater

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

Will you have stormwater discharges from paved surfaces that will be initially sealed or re-sealed with coal-tar sealcoat where industrial activities are located during coverage under this permit?
No

Benchmark Monitoring

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

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

Impaired Waters Monitoring

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

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

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

Discharge Point 026: TA-60-2 Warehouse

Applicable Sectors

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

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

Federal Effluent Limitation Guidelines:

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

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

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

Latitude/Longitude: 35.872114°N, 106.313105°W

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

Receiving Water

GNIS Name:

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

Listed Water ID:
NM-9000.A_047

Is this receiving water saltwater or freshwater? Freshwater

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

Will you have stormwater discharges from paved surfaces that will be initially sealed or re-sealed with coal-tar sealcoat where industrial activities are located during coverage under this permit?
No

Benchmark Monitoring

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

Impaired Waters Monitoring

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

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

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

Discharge Point 037: TA-60 Roads and Grounds

Applicable Sectors

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

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

Federal Effluent Limitation Guidelines:

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

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

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

Latitude/Longitude: 35.867859°N, 106.292992°W

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

Receiving Water

GNIS Name:

Waterbody Name:

Listed Water ID:

Is this receiving water saltwater or freshwater? Freshwater

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

Will you have stormwater discharges from paved surfaces that will be initially sealed or re-sealed with coal-tar sealcoat where industrial activities are located during coverage under this permit?
No

Benchmark Monitoring

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

Impaired Waters Monitoring

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

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

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

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

Applicable Sectors

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

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

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

Federal Effluent Limitation Guidelines:

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

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

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

Latitude/Longitude: 35.875851°N, 106.327924°W

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

Receiving Water

GNIS Name:	Waterbody Name:	Listed Water ID:
	SANDIA CANYON (SIGMA CANYON TO NPDES OUTFALL 001)	<u>NM-9000.A_047</u>

Is this receiving water saltwater or freshwater? Freshwater

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

No

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

No

Benchmark Monitoring

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

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

Impaired Waters Monitoring

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

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

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

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

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

Applicable Sectors

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

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

Federal Effluent Limitation Guidelines:

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

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

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

Latitude/Longitude: 35.869722°N, 106.300833°W

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

Receiving Water

GNIS Name:

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

Listed Water ID:
NM-9000.A_047

Is this receiving water saltwater or freshwater? Freshwater

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

Will you have stormwater discharges from paved surfaces that will be initially sealed or re-sealed with coal-tar sealcoat where industrial activities are located during coverage under this permit?
No

Benchmark Monitoring

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

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

Impaired Waters Monitoring

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

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

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

Discharge Point 078: TA-16 Stockpile Yard

Applicable Sectors

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

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

Federal Effluent Limitation Guidelines:

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

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

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

Latitude/Longitude: 35.846944°N, 106.344722°W

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

Receiving Water

GNIS Name:

Waterbody Name:

Listed Water ID:

CANYON DE VALLE (BELOW LANL GAGE E256)

NM-128.A_01

Is this receiving water saltwater or freshwater? Freshwater

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

Will you have stormwater discharges from paved surfaces that will be initially sealed or re-sealed with coal-tar sealcoat where industrial activities are located during coverage under this permit?
No

Benchmark Monitoring

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

Impaired Waters Monitoring

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

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

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

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

Applicable Sectors

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

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

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

Federal Effluent Limitation Guidelines:

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

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

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

Latitude/Longitude: 35.85678°N, 106.345631°W

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

Receiving Water

GNIS Name:

Waterbody Name:
ARROYO DE LA DELFE (ABOVE KIELING
SPRING TO HEADW)

Listed Water ID:
NM-128.A_16

Is this receiving water saltwater or freshwater? Freshwater

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

Will you have stormwater discharges from paved surfaces that will be initially sealed or re-sealed with coal-tar sealcoat where industrial activities are located during coverage under this permit?
No

Benchmark Monitoring

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

➤ What is the hardness of your receiving water(s)? 28
(mg/L)

Impaired Waters Monitoring

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

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

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

Discharge Point 084: TA-60 Roads and Grounds

Applicable Sectors

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

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

Federal Effluent Limitation Guidelines:

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

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

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

Latitude/Longitude: 35.867771°N, 106.291467°W

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

Receiving Water

GNIS Name:

Waterbody Name:

Listed Water ID:

Is this receiving water saltwater or freshwater? Freshwater

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

Will you have stormwater discharges from paved surfaces that will be initially sealed or re-sealed with coal-tar sealcoat where industrial activities are located during coverage under this permit?
No

Benchmark Monitoring

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

Impaired Waters Monitoring

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

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

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

SWPPP Information

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

SWPPP Contact Information:

First Name Middle Initial Last Name: Holly Wheeler

Phone: 5056671312 Ext.:

Email: hbenson@lanl.gov

SWPPP Availability:

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

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

- ☐ Option 1: Attach a current copy of your SWPPP to this NOI.
- ☒ Option 2: Maintain a Current Copy of your SWPPP on an Internet page (Universal Resource Locator or URL).

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

- ☐ Option 3: Provide the following information from your SWPPP:

Endangered Species Protection Worksheet: Criterion D

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

Determine ESA Eligibility Criterion

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

No

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

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

Yes

➡ The result of the consultation was either:

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

True

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

True

You are eligible under **Criterion D**

Identify the federal action agency(ies) involved:




- ☒ U.S. Fish and Wildlife Services
- ☐ National Marine Fisheries Service

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

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

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

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

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

Historic Preservation: Criterion B

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

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

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

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

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

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

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

You are eligible under Criterion B.

Additional Supporting Information

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

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

Enter Supporting Information

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

Certification Information

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

Certified By: Jennifer payne

Certifier Title: Division Leader

Certifier Email: jpayne@lanl.gov

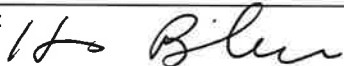

Certified On: 09/30/2022 6:31 PM ET

ATTACHMENT 2: SWPPP AMENDMENTS

Date	Plan Section	Reason for Amendment	Amendment
May 2021	All	MSGP Plan for new industrial facility at TA-09-0214	New MSGP Plan for Triad, LLC regarding the TA-09-0214 Metals Fabrication Shop.
June 2021	3.1.5, 3.1.6	Updated site map	Updated site map and associated SWPPP text.
January 2022	2.2, 2.5 and 4.5	Annual review	Updated the spill table and history, in addition to employee training.
January 2023	All	Annual review	Updated sections and attachments as needed. Added 2022 Corrective Action Reports, Routine Facility Inspections and Quarterly Visual Assessments.

ATTACHMENT 3: CERTIFICATION OF NO UNAUTHORIZED STORMWATER DISCHARGES

Unauthorized Non-Storm Water Discharge Assessment and Certification

Facility:	TA-09-0214 Metal Fabrication Shop		
Outfalls (including SIOs*) or Other Onsite Drainage Points Observed During the Assessment	Identified Potential Sources of Unauthorized Non-Storm Water Discharge (if applicable)	Description of Assessment Criterion Used	Describe any Required Actions to Control or Eliminate the Discharge
079	None	Visual evaluation	None
Assessor:			
Print Name:	Signature:	Title:	Date Assessed:
Kelkenny Bileen		Deployed Environmental Professional	12/22/22
Authorized Signatory: I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information contained therein. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information contained is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.			
Print Name:	Signature:	Title:	Date Certified:
Derek Clark	 332752	Operations Manager 6	1/9/23

*SIO = Substantially Identical Outfall

ATTACHMENT 4: DULY AUTHORIZED SIGNATORY MEMORANDUM



**Environmental Protection & Compliance Division
Compliance Programs Group**

Los Alamos National Laboratory
PO Box 1663, M969
Los Alamos, NM 87545
505-667-5466

Symbol: EPC-DO: 22-139
LAUR: 22-24721
Locates: N/A
Date: 08/11/2022

Dr. Earthea Nance, Regional Administrator
U.S. Environmental Protection Agency, Region 6
1201 Elm Street, Suite 500
Dallas, Texas, 75270

**Subject: Notification of Triad National Security, LLC (Triad), Signatory Officials
and Authorized Representatives for National Pollutant Discharge
Elimination System (NPDES) Permits**

Dear Dr. Nance:

The purpose of this letter is to provide an update to the U.S. Environmental Protection Agency (EPA) Region 6 for the Triad National Security, LLC (Triad) delegation of authority for signature on documents associated with the various Los Alamos National Laboratory (LANL) National Pollutant Discharge Elimination System (NPDES) Permits, pursuant to Title 40 of the Code of Federal Regulations (40 CFR) §122.22(c). This letter supersedes and replaces the signatory authority letter dated December 11, 2018 (EPC-DO: 18-453).

The positions of Associate Laboratory Director of Environment, Safety, Health, Quality, Safeguards, and Security (ESHQSS), and Division Leader of the Environmental Protection and Compliance Division (EPC-DO) are identified as Triad's primary signatory officials under 40 CFR §122.22(a) for certifying and signing permit applications [including Notices of Intent (NOIs)] required under the LANL NPDES Industrial Point Source Outfall Permit (Permit No. NM0028355), the NPDES Construction General Permit (CGP) for Stormwater Discharges from Construction Activities, the NPDES Multi-Sector General Permit (MSGP) (Permit No. NMR050013) for Stormwater Discharges Associated with Industrial Activity and the NPDES Pesticide General Permit (Permit No. NMG870002) for Discharges from the Application of Pesticides.

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

NPDES Industrial Point Source Outfall Permit (No. NM0028355)

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

NPDES CGP:

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

NPDES MSGP (No. NMR050013)

- Positions listed as primary signatory officials above.
- Group Leader or Team Leaders within the Compliance Programs Group.
- Division Leader, Deputy Division Leader, or Group Leader of the Triad division responsible for the overall operation of the regulated facility or activity.
- Responsible FOD, Deputy FOD, or Operations Manager responsible for the overall operation of the regulated facility or activity.

NPDES Pesticide General Permit (No. NMG870002)

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

If you have questions, please contact me at (505) 667-7912, (505) 500-2273 or at jpayne@lanl.gov.

Sincerely,

JENNIFER
PAYNE (Affiliate)

Digitally signed by JENNIFER
PAYNE (Affiliate)
Date: 2022.08.11 13:10:40
+06'00'

Jennifer E. Payne
Division Leader
Environmental Protection and Compliance

Attachment(s): None

Copy: Nasim Jahan, USEPA, Region 6, jahan.nasim@epa.gov
Suzanna Perea, USEPA, Region 6, perea.suzanna@epa.gov
Susan Lucas Kamat, NMED, susan.lucaskamat@state.nm.us
Karen E. Armijo, NA-LA, karen.armijo@nnsa.doe.gov
Marcus Pinzel, NA-LA, marcus.pinzel@nnsa.doe.gov
William R. Mairson, Triad, ALDESHQSS, wrmairson@lanl.gov
Jeannette T. Hyatt, Triad, EWP, jhyatt@lanl.gov
Jennifer E. Payne, Triad, EPC-DO, jpayne@lanl.gov
Kristen Honig, Triad, EPC-DO, khonig@lanl.gov
Steven L. Story, Triad, EPC-CP, story@lanl.gov
Sarah S. Holcomb, Triad, EPC-CP, sholcomb@lanl.gov
Terrill W. Lemke, Triad, EPC-CP, tlemke@lanl.gov
Maxine M. McReynolds, Triad, GC-ESH, mcreynolds@lanl.gov
Cristina A. Mulcahy, Triad, GC-ESH, mulcahy@lanl.gov
emla.docs@em.doe.gov
epc-correspondence@lanl.gov
eshqss-dcrm@lanl.gov
gc-esh@lanl.gov

ATTACHMENT 5: DISCHARGE MONITORING REPORTS

DMR Copy of Record

Permit

Permit #:

NMR050013

Major:

No

Permitted Feature:

079
External Outfall

Permittee:

Triad National Security LLC

Permittee Address:

PO Box 1663
Los Alamos, NM 87545

Discharge:

079-11
Fabricated Metal Products, except Coating

Facility:

LOS ALAMOS NATIONAL LABORATORY

Facility Location:

PO BOX 1663
LOS ALAMOS, NM 87545

Report Dates & Status

Monitoring Period:

From 07/01/21 to 09/30/21

DMR Due Date:

11/30/21

Status:

NetDMR Validated

Considerations for Form Completion

Principal Executive Officer

First Name:

Last Name:

Title:

Telephone:

No Data Indicator (NODI)

Form NODI:

--

Parameter		Monitoring Location	Season #	Param. NODI		Quantity or Loading					Quality or Concentration							# of Ex.	Frequency of Analysis	Sample Type
Code	Name					Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units			
01104	Aluminum, total recoverable	1 - Effluent Gross	0	--	Sample														01/90 - Quarterly	GR - GRAB
					Permit Req.										<=	1100.0 MAXIMUM	28 - ug/L			
					Value NODI											C - No Discharge				
51450	Nitrite Plus Nitrate Total	1 - Effluent Gross	0	--	Sample														01/90 - Quarterly	GR - GRAB
					Permit Req.										<=	0.68 MAXIMUM	19 - mg/L			
					Value NODI											C - No Discharge				

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

LA-UR-21-30667

Attachments

No attachments.

Report Last Saved By

Triad National Security LLC

User:

leslie@lanl.gov

Name:

Leslie Dale

E-Mail:

leslie@lanl.gov

Date/Time:

2021-10-27 08:50 (Time Zone: -05:00)

Report Last Signed By

TERRILLEMKE

User:

TERRILLEMKE

Name:

Terrill Lemke

E-Mail:

tlemke@lanl.gov

Date/Time:

2021-10-27 10:04 (Time Zone: -05:00)

DMR Copy of Record

Permit

Permit #:	NMR050013	Permittee:	Triad National Security LLC	Facility:	LOS ALAMOS NATIONAL LABORATORY
Major:	No	Permittee Address:	PO Box 1663 Los Alamos, NM 87545	Facility Location:	PO BOX 1663 LOS ALAMOS, NM 87545
Permitted Feature:	079 External Outfall	Discharge:	079-IW Impaired Water		

Report Dates & Status

Monitoring Period:	From 07/01/21 to 06/30/22	DMR Due Date:	08/31/22	Status:	NetDMR Validated
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Considerations for Form Completion

Principal Executive Officer

First Name:		Title:		Telephone:	
Last Name:					

No Data Indicator (NODI)

Form NODI: --

Parameter		Monitoring Location	Season #	Param. NODI		Quantity or Loading					Quality or Concentration							# of Ex.	Frequency of Analysis	Sample Type
Code	Name					Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3				
01040	Copper, dissolved [as Cu]	1 - Effluent Gross	0	--	Sample											4.78	28 - ug/L	0	01/YR - Annual	GR - GRAB
					Permit Req.											Req Mon MAXIMUM	28 - ug/L		01/YR - Annual	GR - GRAB
					Value NODI															
01104	Aluminum, total recoverable	1 - Effluent Gross	0	--	Sample														01/YR - Annual	GR - GRAB
					Permit Req.											Req Mon MAXIMUM	28 - ug/L		01/YR - Annual	GR - GRAB
					Value NODI											F - Insufficient Flow for Sampling				
39516	Polychlorinated biphenyls [PCBs]	1 - Effluent Gross	0	--	Sample														01/YR - Annual	GR - GRAB
					Permit Req.											Req Mon MAXIMUM	19 - mg/L		01/YR - Annual	GR - GRAB
					Value NODI											F - Insufficient Flow for Sampling				
51931	Alpha, gross adjusted	1 - Effluent Gross	0	--	Sample														01/YR - Annual	GR - GRAB
					Permit Req.											Req Mon MAXIMUM	17 - pCi/L		01/YR - Annual	GR - GRAB
					Value NODI											F - Insufficient Flow for Sampling				

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

LA-UR-22-28977

Attachments

No attachments.

Report Last Saved By

Triad National Security LLC

User: leslie@lanl.gov
Name: Leslie Dale
E-Mail: leslie@lanl.gov
Date/Time: 2022-08-30 06:00 (Time Zone: -05:00)

Report Last Signed By

User: TERRILLEMKE
Name: Terrill Lemke
E-Mail: tlemke@lanl.gov
Date/Time: 2022-08-31 13:42 (Time Zone: -05:00)

DMR Copy of Record

Permit

Permit #:	NMR050013	Permittee:	Triad National Security LLC	Facility:	LOS ALAMOS NATIONAL LABORATORY
Major:	No	Permittee Address:	PO Box 1663 Los Alamos, NM 87545	Facility Location:	PO BOX 1663 LOS ALAMOS, NM 87545
Permitted Feature:	079 External Outfall	Discharge:	079-ZB Zinc: Water Hardness 25-49.99 mg/l		

Report Dates & Status

Monitoring Period:	From 07/01/21 to 09/30/21	DMR Due Date:	11/30/21	Status:	NetDMR Validated
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Considerations for Form Completion

Principal Executive Officer

First Name:	Title:	Telephone:
Last Name:		

No Data Indicator (NODI)

Form NODI: --

Parameter		Monitoring Location	Season #	Param. NODI		Quantity or Loading					Quality or Concentration						# of Ex.	Frequency of Analysis	Sample Type	
Code	Name					Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3				Units
01090	Zinc, dissolved [as Zn]	1 - Effluent Gross	0	--	Sample									13.1	28 - ug/L	0	01/90 - Quarterly	GR - GRAB		
					Permit Req.										<=		66.0 MAXIMUM	28 - ug/L	01/90 - Quarterly	GR - GRAB
					Value NODI															

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

LA-UR-21-31445

Attachments

No attachments.

Report Last Saved By

Triad National Security LLC

User:	leslie@lanl.gov
Name:	Leslie Dale
E-Mail:	leslie@lanl.gov
Date/Time:	2021-11-18 10:30 (Time Zone: -06:00)

Report Last Signed By

User:	TERRILLEMKE
Name:	Terrill Lemke
E-Mail:	tlemke@lanl.gov
Date/Time:	2021-11-18 11:18 (Time Zone: -06:00)

DMR Copy of Record

Permit

Permit #:	NMR050013	Permittee:	Triad National Security LLC	Facility:	LOS ALAMOS NATIONAL LABORATORY
Major:	No	Permittee Address:	PO Box 1663 Los Alamos, NM 87545	Facility Location:	PO BOX 1663 LOS ALAMOS, NM 87545
Permitted Feature:	079 External Outfall	Discharge:	079-ZB Zinc: Water Hardness 25-49.99 mg/l		

Report Dates & Status

Monitoring Period:	From 10/01/21 to 12/31/21	DMR Due Date:	02/28/22	Status:	NetDMR Validated
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Considerations for Form Completion

Principal Executive Officer

First Name:	Title:	Telephone:
Last Name:		

No Data Indicator (NODI)

Form NODI: --

Parameter		Monitoring Location	Season #	Param. NODI		Quantity or Loading					Quality or Concentration						# of Ex.	Frequency of Analysis	Sample Type
Code	Name					Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units		
01090	Zinc, dissolved [as Zn]	1 - Effluent Gross	0	--	Sample													01/90 - Quarterly	GR - GRAB
					Permit Req.										<=	66.0 MAXIMUM	28 - ug/L		
					Value NODI											C - No Discharge			

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

LA-UR-22-20563

Attachments

No attachments.

Report Last Saved By

Triad National Security LLC

User: leslie@lanl.gov
Name: Leslie Dale
E-Mail: leslie@lanl.gov
Date/Time: 2022-01-24 16:40 (Time Zone: -06:00)

Report Last Signed By

User: TERRILLLEMKE
Name: Terrill Lemke
E-Mail: tlemke@lanl.gov
Date/Time: 2022-01-26 13:16 (Time Zone: -06:00)

DMR Copy of Record

Permit

Permit #:
Major:

NMR050013
No

Permittee:
Permittee Address:

Triad National Security LLC
PO Box 1663
Los Alamos, NM 87545

Facility:
Facility Location:

LOS ALAMOS NATIONAL LABORATORY
PO BOX 1663
LOS ALAMOS, NM 87545

Permitted Feature:

079
External Outfall

Discharge:

079-11
Fabricated Metal Products, except Coating

Report Dates & Status

Monitoring Period:

From 10/01/21 to 12/31/21

DMR Due Date:

02/28/22

Status:

NetDMR Validated

Considerations for Form Completion

Principal Executive Officer

First Name:
Last Name:

Title:

Telephone:

No Data Indicator (NODI)

Form NODI:

--

Parameter		Monitoring Location	Season #	Param. NODI		Quantity or Loading					Quality or Concentration						# of Ex.	Frequency of Analysis	Sample Type
Code	Name					Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units		
01104	Aluminum, total recoverable	1 - Effluent Gross	0	--	Sample													01/90 - Quarterly	GR - GRAB
					Permit Req.										<=	1100.0 MAXIMUM	28 - ug/L		
					Value NODI											C - No Discharge			
51450	Nitrite Plus Nitrate Total	1 - Effluent Gross	0	--	Sample													01/90 - Quarterly	GR - GRAB
					Permit Req.											<=	0.68 MAXIMUM	19 - mg/L	
					Value NODI												C - No Discharge		

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

LA-UR-22-20563

Attachments

No attachments.

Report Last Saved By

Triad National Security LLC

User:

leslie@lanl.gov

Name:

Leslie Dale

E-Mail:

leslie@lanl.gov

Date/Time:

2022-01-24 16:40 (Time Zone: -06:00)

Report Last Signed By

User:

TERRILLEMKE

Name:

Terrill Lemke

E-Mail:

tlemke@lanl.gov

Date/Time:

2022-01-26 13:16 (Time Zone: -06:00)

DMR Copy of Record

Permit

Permit #:

NMR050013

Major:

No

Permitted Feature:

079
External Outfall

Permittee:

Triad National Security LLC

Permittee Address:

PO Box 1663
Los Alamos, NM 87545

Discharge:

079-11
Fabricated Metal Products, except Coating

Facility:

LOS ALAMOS NATIONAL LABORATORY

Facility Location:

PO BOX 1663
LOS ALAMOS, NM 87545

Report Dates & Status

Monitoring Period:

From 01/01/22 to 03/31/22

DMR Due Date:

05/31/22

Status:

NetDMR Validated

Considerations for Form Completion

Principal Executive Officer

First Name:

Last Name:

Title:

Telephone:

No Data Indicator (NODI)

Form NODI:

--

Parameter		Monitoring Location	Season #	Param. NODI		Quantity or Loading					Quality or Concentration							# of Ex.	Frequency of Analysis	Sample Type		
Code	Name					Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3					Units	
01104	Aluminum, total recoverable	1 - Effluent Gross	0	--	Sample														01/90 - Quarterly	GR - GRAB		
					Permit Req.										<=	1100.0 MAXIMUM					28 - ug/L	
					Value NODI										F - Insufficient Flow for Sampling							
51450	Nitrite Plus Nitrate Total	1 - Effluent Gross	0	--	Sample														01/90 - Quarterly	GR - GRAB		
					Permit Req.											<=	0.68 MAXIMUM				19 - mg/L	
					Value NODI											F - Insufficient Flow for Sampling						

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

LA-UR-22-23400

Attachments

No attachments.

Report Last Saved By

Triad National Security LLC

User:

leslie@lanl.gov

Name:

Leslie Dale

E-Mail:

leslie@lanl.gov

Date/Time:

2022-04-21 12:20 (Time Zone: -05:00)

Report Last Signed By

Terrill Lemke

User:

TERRILLEMKE

Name:

Terrill Lemke

E-Mail:

tlemke@lanl.gov

Date/Time:

2022-04-21 13:41 (Time Zone: -05:00)

DMR Copy of Record

Permit

Permit #:
Major:

NMR050013
No

Permittee:
Permittee Address:

Triad National Security LLC
PO Box 1663
Los Alamos, NM 87545

Facility:
Facility Location:

LOS ALAMOS NATIONAL LABORATORY
PO BOX 1663
LOS ALAMOS, NM 87545

Permitted Feature:

079
External Outfall

Discharge:

079-ZB
Zinc: Water Hardness 25-49.99 mg/l

Report Dates & Status

Monitoring Period:

From 01/01/22 to 03/31/22

DMR Due Date:

05/31/22

Status:

NetDMR Validated

Considerations for Form Completion

Principal Executive Officer

First Name:
Last Name:

Title:

Telephone:

No Data Indicator (NODI)

Form NODI: --

Parameter		Monitoring Location	Season #	Param. NODI		Quantity or Loading					Quality or Concentration							# of Ex.	Frequency of Analysis	Sample Type
Code	Name					Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units			
01090	Zinc, dissolved [as Zn]	1 - Effluent Gross	0	--	Sample														01/90 - Quarterly	GR - GRAB
					Permit Req.										<=	66.0 MAXIMUM	28 - ug/L			
					Value NODI											F - Insufficient Flow for Sampling				

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

LA-UR-22-23400

Attachments

No attachments.

Report Last Saved By

Triad National Security LLC

User:

leslie@lanl.gov

Name:

Leslie Dale

E-Mail:

leslie@lanl.gov

Date/Time:

2022-04-21 12:20 (Time Zone: -05:00)

Report Last Signed By

User:

TERRILLEMKE

Name:

Terrill Lemke

E-Mail:

tlemke@lanl.gov

Date/Time:

2022-04-21 13:41 (Time Zone: -05:00)

DMR Copy of Record

Permit

Permit #:	NMR050013	Permittee:	Triad National Security LLC	Facility:	LOS ALAMOS NATIONAL LABORATORY
Major:	No	Permittee Address:	PO Box 1663 Los Alamos, NM 87545	Facility Location:	PO BOX 1663 LOS ALAMOS, NM 87545
Permitted Feature:	079 External Outfall	Discharge:	079-11 Fabricated Metal Products, except Coating		

Report Dates & Status

Monitoring Period:	From 04/01/22 to 06/30/22	DMR Due Date:	08/31/22	Status:	NetDMR Validated
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Considerations for Form Completion

Principal Executive Officer

First Name:	Title:	Telephone:
Last Name:		

No Data Indicator (NODI)

Form NODI: --

Parameter		Monitoring Location	Season #	Param. NODI		Quantity or Loading					Quality or Concentration						# of Ex.	Frequency of Analysis	Sample Type
Code	Name					Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units		
01104	Aluminum, total recoverable	1 - Effluent Gross	0	--	Sample													01/90 - Quarterly	GR - GRAB
					Permit Req.										<=	1100.0 MAXIMUM	28 - ug/L		
					Value NODI											C - No Discharge			
51450	Nitrite Plus Nitrate Total	1 - Effluent Gross	0	--	Sample													01/90 - Quarterly	GR - GRAB
					Permit Req.										<=	0.68 MAXIMUM	19 - mg/L		
					Value NODI											C - No Discharge			

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

LA-UR-22-28975

Attachments

No attachments.

Report Last Saved By

Triad National Security LLC

User:	leslie@lanl.gov
Name:	Leslie Dale
E-Mail:	leslie@lanl.gov
Date/Time:	2022-08-30 06:00 (Time Zone: -05:00)

Report Last Signed By

User:	TERRILLEMKE
Name:	Terrill Lemke
E-Mail:	tlemke@lanl.gov
Date/Time:	2022-08-31 13:42 (Time Zone: -05:00)

DMR Copy of Record

Permit

Permit #:	NMR050013	Permittee:	Triad National Security LLC	Facility:	LOS ALAMOS NATIONAL LABORATORY
Major:	No	Permittee Address:	PO Box 1663 Los Alamos, NM 87545	Facility Location:	PO BOX 1663 LOS ALAMOS, NM 87545
Permitted Feature:	079 External Outfall	Discharge:	079-ZB Zinc: Water Hardness 25-49.99 mg/l		

Report Dates & Status

Monitoring Period:	From 04/01/22 to 06/30/22	DMR Due Date:	08/31/22	Status:	NetDMR Validated
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Considerations for Form Completion

Principal Executive Officer

First Name:	Title:	Telephone:
Last Name:		

No Data Indicator (NODI)

Form NODI:	--
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Parameter		Monitoring Location	Season #	Param. NODI		Quantity or Loading					Quality or Concentration							# of Ex.	Frequency of Analysis	Sample Type
Code	Name					Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units			
01090	Zinc, dissolved [as Zn]	1 - Effluent Gross	0	--	Sample														01/90 - Quarterly	GR - GRAB
					Permit Req.										<=	66.0 MAXIMUM	28 - ug/L			
					Value NODI											C - No Discharge				

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

LA-UR-22-28975

Attachments

No attachments.

Report Last Saved By

Triad National Security LLC

User:	leslie@lanl.gov
Name:	Leslie Dale
E-Mail:	leslie@lanl.gov
Date/Time:	2022-08-30 06:00 (Time Zone: -05:00)

Report Last Signed By

User:	TERRILLEMKE
Name:	Terrill Lemke
E-Mail:	tlemke@lanl.gov
Date/Time:	2022-08-31 13:42 (Time Zone: -05:00)

ATTACHMENT 6: ANNUAL REPORTS

NPDES
FORM
6100-28



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460
ANNUAL REPORT FOR STORMWATER DISCHARGES ASSOCIATED WITH
INDUSTRIAL ACTIVITY UNDER THE NPDES MULTI-SECTOR GENERAL PERMIT

FORM
Approved OMB No.
2040-0300

Permit Information

Report Year: 2022

Reporting Period: 01/01/2022 to 12/31/2022

NPDES ID: NMR050013

Facility Information

Facility Name: LOS ALAMOS NATIONAL LABORATORY

Facility Point of Contact

First NameMiddle InitialLast Name: TerrillLemke

Phone: 505-665-2397Ext.:

Email: tlemke@lanl.gov

Facility Mailing Address

Address Line 1: PO BOX 1663

Address Line 2: MS K490City: LOS ALAMOS

ZIP/Postal Code: 87545State: NM

County or Similar Division: Los Alamos

General Findings

Provide a summary of your past year's routine facility inspection documentation, including dates (see Part 3.1.6 of the permit). In addition, if you are an operator of an airport facility (Sector S) that is subject to the airport effluent limitations guidelines, and are complying with the MSGP Part 8.5.9 effluent limitation through the use of non-urea-containing deicers, provide a statement certifying that you do not use pavement deicers containing urea (e.g., "Urea was not used at [name of airport] for pavement deicing in the past year and will also not be used in 2021." (Note: Operators of airport facilities that are complying with Part 8.5.9 by meeting the numeric effluent limitation for ammonia do not need to include this statement.)

Los Alamos National Laboratory (LANL), operated by Triad National Security, LLC (Triad), consists of 8 active industrial sites that operate under 4 different Sectors (D, N, P, and AA). Permit coverage became effective on June 25, 2021. All 8 active sites were inspected according to the schedules identified in the site-specific Stormwater Pollution Prevention Plans (SWPPPs). The 39 sites that qualify for a conditional exclusion for no exposure were inspected between November 17 and December 13, 2022. A summary of routine facility inspections, other walkdowns, and associated corrective actions are included in Table 1 (attached).

Provide a summary of your past year's quarterly visual assessment documentation, including dates (see Part 3.2.3 of the permit).

Please see Table 2 (attached) for a summary of visual assessment documentation. Outfalls reporting fewer than four visual assessments means no discharge occurred during one or more quarters.

Provide a summary of your past year's corrective action and/or additional implementation measures (AIM) documentation (See Part 5.3 of the permit). (Note: If corrective action is not yet completed at the time of submission of this annual report, you must describe the status of any outstanding corrective action(s).) Note that you must modify your SWPPP based on the corrective actions and deadlines required under Part 5. Also describe any incidents of noncompliance in the past year or currently ongoing, or if none, provide a statement that you are in compliance with the permit.

Please see Table 1 (attached) for a summary of corrective action documentation, which specifies the frequency of each of the following by site: (1) unauthorized release or discharge, (2) control measures needing maintenance, repair or replacement, (3) control measures that were inadequate to meet the non-numeric effluent limitations, (4) effluent limitation guidelines exceedances, and (5) benchmark exceedances (AIM triggering events). All corrective actions were completed per the schedule provided in Part 5.1.3. LANL is in compliance with the permit.

Attached files:

Name	Uploaded Date	Size
 2022 Annual Report Tables 1 and 2.pdf (arptAttachment/826643)	01/25/2023	138.04 KB

Certification Information

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

Certified By: Jennifer payne

Certifier Title: Division Leader

Certifier Email: jpayne@lanl.gov

Certified On: 01/25/2023 6:21 PM ET

Page 1 of 1

2022 MSGP Annual Report

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

Facility	Status	Required/ Recommended Inspection Frequency	Routine Facility Inspections and Other Walkdowns Conducted Between 1/1/2022 and 12/31/2022	Inspection Dates	Unauthorized Release or Discharge	Control Measures Needing Maintenance, Repairs, or Replacement or Installed Incorrectly	Control Measures Inadequate to Meet Non- Numeric Effluent Limitations	Incidents of Noncompliance (Effluent Limitation Guidelines Exceedances)	Average Exceeds or is Mathematically Certain to Exceed Benchmark Value (AIM Triggering Event)	AIM Level at end of Reporting Period
TA-03-0029 Indoor TSD	No Exposure	Annually	1	11/28/22	—	—	—	—	—	—
TA-03-0029 Machine Shop	No Exposure	Annually	1	11/28/22	—	—	—	—	—	—
TA-03-0030 Warehouse	No Exposure	Annually	6	4/20/22, 6/7/22, 7/12/22, 9/21/22, 12/1/22, 12/6/22	5	—	—	—	—	—
TA-03-0032 Metal Shop	No Exposure	Annually	1	11/28/22	—	—	—	—	—	—
TA-03-0034 Metal Shop	No Exposure	Annually	1	11/28/22	—	—	—	—	—	—
TA-03-0038 Metal Fabrication Shops	Active	Monthly	13	1/31/22, 2/14/22, 3/29/22, 4/21/22, 5/19/22, 6/13/22, 7/14/22, 8/25/22, 9/20/22, 10/19/22, 11/17/22, 12/13/22, 12/14/22	—	1	8	—	3	Zn - Baseline until Year 4, NO3+NO2-N - AIM Level 1, Al - AIM Level 2
TA-03-0039 & 0102 Metal Shop	No Exposure	Annually	5	4/18/22, 6/27/22, 7/19/22, 11/22/22, 11/28/22	2	—	5	—	—	—
TA-03-0040, Room 131S Machine Shop	No Exposure	Annually	2	3/28/22, 11/28/22	—	—	1	—	—	—
TA-03-0066 Sigma Complex	No Exposure	Annually	4	6/21/22, 9/30/22, 11/28/22, 12/5/22	1	2	9	—	—	—
TA-03-2206 Warehouse	No Exposure	Annually	1	11/28/22	—	—	—	—	—	—
TA-09-0028 Heavy Equipment Maintenance	No Exposure	Annually	2	4/20/22, 11/17/22	1	—	1	—	—	—
TA-09-0214 Metal Fabrication Shop	Active	Monthly	12	1/4/22, 2/28/22, 3/24/22, 4/21/22, 5/9/22, 6/7/22, 7/28/22, 8/25/22, 9/28/22, 10/25/22, 11/30/22, 12/20/22	1	—	1	—	—	Baseline
TA-14-0023 OBOD TSD (Burn Cage)	No Exposure	Annually	1	11/17/22	—	—	—	—	—	—
TA-15-0185 (PHERMEX)	No Exposure	Annually	1	11/17/22	—	—	—	—	—	—

2022 MSGP Annual Report

Facility	Status	Required/ Recommended Inspection Frequency	Routine Facility Inspections and Other Walkdowns Conducted Between 1/1/2022 and 12/31/2022	Inspection Dates	Unauthorized Release or Discharge	Control Measures Needing Maintenance, Repairs, or Replacement or Installed Incorrectly	Control Measures Inadequate to Meet Non- Numeric Effluent Limitations	Incidents of Noncompliance (Effluent Limitation Guidelines Exceedances)	Average Exceeds or is Mathematically Certain to Exceed Benchmark Value (AIM Triggering Event)	AIM Level at end of Reporting Period
TA-15-0313 Machine Shop	No Exposure	Annually	1	11/17/22	1	—	1	—	—	—
TA-16 Stockpile Area	Active	Quarterly	4	2/28/22, 4/21/22, 9/6/22, 12/20/22	—	—	1	—	—	N/A
TA-22-0052 Machine Shop	No Exposure	Annually	1	11/17/22	—	1	—	—	—	—
TA-33-0039 Machine Shop	No Exposure	Annually	1	11/29/22	—	—	—	—	—	—
TA-33-0113 Machine Shop	No Exposure	Annually	1	11/29/22	—	—	1	—	—	—
TA-35-0002 Machine Shop	No Exposure	Annually	1	11/29/22	—	—	—	—	—	—
TA-35-0125 Machine Shop	No Exposure	Annually	1	11/29/22	—	—	—	—	—	—
TA-35-0213 Target Fabrication Facility	No Exposure	Annually	1	11/29/22	—	—	4	—	—	—
TA-46-0031 Machine Shop	No Exposure	Annually	1	11/28/22	—	—	—	—	—	—
TA-46-0077 Machine Shop	No Exposure	Annually	4	6/28/22, 8/9/22, 9/12/22, 11/28/22	—	—	3	—	—	—
TA-46-0624 Warehouse	No Exposure	Annually	1	11/28/22	—	—	—	—	—	—
TA-48-0008 Machine Shop	No Exposure	Annually	1	11/29/22	—	—	1	—	—	—
TA-50-0054 Machine Shop	No Exposure	Annually	1	11/29/22	—	—	—	—	—	—
TA-50-0069 WCRRF	No Exposure	Annually	1	11/28/22	—	—	—	—	—	—
TA-53-0002 Machine Shop	No Exposure	Annually	2	12/8/22, 12/14/22	—	1	—	—	—	—
TA-53-0016/0726 Machine Shop	No Exposure	Annually	1	12/13/22	—	—	—	—	—	—
TA-53-0026 Machine Shop	No Exposure	Annually	1	12/13/22	—	—	1	—	—	—
TA-54-0038 Indoor TSD	No Exposure	Annually	1	11/28/22	—	—	—	—	—	—
TA-54-0038 Outdoor TSD	No Exposure	Annually	1	11/28/22	—	—	—	—	—	—
TA-55 PF-0004 Indoor TSD	No Exposure	Annually	1	11/30/22	—	—	—	—	—	—
TA-55-0005 Warehouse	No Exposure	Annually	1	11/30/22	—	—	—	—	—	—
TA-55-0268 Warehouse	No Exposure	Annually	1	11/30/22	—	—	—	—	—	—

2022 MSGP Annual Report

Facility	Status	Required/ Recommended Inspection Frequency	Routine Facility Inspections and Other Walkdowns Conducted Between 1/1/2022 and 12/31/2022	Inspection Dates	Unauthorized Release or Discharge	Control Measures Needing Maintenance, Repairs, or Replacement or Installed Incorrectly	Control Measures Inadequate to Meet Non- Numeric Effluent Limitations	Incidents of Noncompliance (Effluent Limitation Guidelines Exceedances)	Average Exceeds or is Mathematically Certain to Exceed Benchmark Value (AIM Triggering Event)	AIM Level at end of Reporting Period
TA-55-0314 Warehouse	No Exposure	Annually	1	11/30/22	—	—	—	—	—	—
TA-55-0355 TSD	No Exposure	Annually	1	11/30/22	—	—	1	—	—	—
TA-55-0430 Metal Shop	No Exposure	Annually	1	11/30/22	—	—	—	—	—	—
TA-55-0432 Warehouse	No Exposure	Annually	1	11/30/22	—	—	—	—	—	—
TA-55 Outdoor TSD	No Exposure	Annually	1	11/30/22	—	1	—	—	—	—
TA-60 Asphalt Batch Plant	Active	Monthly	14	1/4/22, 1/25/22, 2/8/22, 3/1/22, 4/6/22, 5/3/22, 6/1/22, 6/27/22, 7/5/22, 8/1/22, 9/6/22, 10/3/22, 11/2/22, 12/20/22	1	1	4	2	—	Baseline
TA-60 Material Recycling Facility	Active	Monthly	13	1/25/22, 2/14/22, 3/2/22, 4/21/22, 5/18/22, 6/14/22, 7/18/22, 8/15/22, 9/13/22, 10/13/22, 11/8/22, 12/19/22, 12/20/22	2	2	3	—	—	N/A
TA-60 Roads and Grounds and TA-61 Asphalt Staging Area	Active	Monthly	21	1/31/22, 2/15/22, 3/16/22, 4/26/22, 5/31/22, 6/27/22, 6/28/22, 7/5/22, 7/25/22, 8/11/22, 8/29/22, 9/13/22, 9/22/22, 9/28/22, 10/20/22, 11/2/22, 11/22/22, 11/29/22, 12/10/22, 12/16/22, 12/19/22	9	6	23	—	—	N/A
TA-60-0001 Heavy Equipment Yard	Active	Monthly	22	1/20/22, 2/22/22, 3/22/22, 3/24/22, 4/22/22, 4/26/22, 5/24/22, 6/9/22, 6/16/22, 6/24/22, 7/18/22, 7/20/22, 8/2/22, 8/9/22, 8/19/22, 9/6/22, 9/29/22, 10/28/22, 11/08/22, 11/21/22, 12/14/22, 12/21/22	17	3	8	—	2	Zn and NO3+NO2-N – Baseline until Year 4, Al – AIM Level 1

2022 MSGP Annual Report

Facility	Status	Required/ Recommended Inspection Frequency	Routine Facility Inspections and Other Walkdowns Conducted Between 1/1/2022 and 12/31/2022	Inspection Dates	Unauthorized Release or Discharge	Control Measures Needing Maintenance, Repairs, or Replacement or Installed Incorrectly	Control Measures Inadequate to Meet Non- Numeric Effluent Limitations	Incidents of Noncompliance (Effluent Limitation Guidelines Exceedances)	Average Exceeds or is Mathematically Certain to Exceed Benchmark Value (AIM Triggering Event)	AIM Level at end of Reporting Period
TA-60-0002 Warehouse	Active	Monthly	12	1/20/22, 2/24/22, 3/22/22, 4/19/22, 5/17/22, 6/15/22, 7/12/22, 8/18/22, 9/20/22, 10/18/22, 11/16/22, 12/19/22	—	—	4	—	—	N/A
TA-63 Transuranic Waste Facility TSDs	No Exposure	Annually	1	11/28/22	—	—	—	—	—	—

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


2022 MSGP Annual Report

Table 2. Summary of Quarterly Visual Assessments

Facility	Outfall	Outfall Type	Visual Assessments Performed between 1/1/2022 and 12/31/2022	Visual Assessment Dates	Evidence of Pollutants Observed
TA-03-0038 Metal Fabrication Shops	076	Monitored	2	6/23/22, 7/21/22	None
	077	Monitored	3	6/27/22, 8/1/22, 10/3/22	None
TA-09-0214 Metal Fabrication Shop	079	Monitored	1	7/5/22	None
TA-16 Stockpile Area	078	Monitored	1	8/2/22	None
TA-60 Asphalt Batch Plant	043	Monitored	3	6/27/22, 7/5/22, 8/1/22	None
TA-60 Material Recycling Facility	029	Monitored	4	3/18/22, 6/23/22, 7/21/22, 10/3/22	None
TA-60 Roads and Grounds and TA-61 Asphalt Staging Area	031	Monitored	3	6/27/22, 7/5/22, 10/17/22	None
	030	SIDP to 031	4	1/6/22, 6/20/22, 7/5/22, 10/3/22	None
	032	Monitored	3	6/23/22, 7/5/22, 10/6/22	None
	033	SIDP to 032	4	3/1/22, 6/20/22, 7/5/22, 10/3/22	None
	034	SIDP to 032	4	3/1/22, 6/20/22, 7/5/22, 10/3/22	None
	035	SIDP to 032	4	3/1/22, 6/23/22, 7/5/22, 10/3/22	None
	037	Monitored	2	6/28/22, 8/1/22	None
	039	Monitored	1	6/27/22	None
	042	Monitored	3	6/23/22, 7/5/22, 10/17/22	None
TA-60-0001 Heavy Equipment Yard	084	Monitored	0	-	None
	022	Monitored	5	1/3/22, 3/18/22, 6/27/22, 7/5/22, 10/6/22	None
	021	SIDP to 022	4	1/6/22, 6/20/22, 7/5/22, 10/3/22	None
	023	SIDP to 022	4	1/10/22, 6/20/22, 7/5/22, 10/3/22	None
	024	SIDP to 022	4	1/3/22, 6/20/22, 7/18/22, 10/3/22	None
TA-60-0002 Warehouse	025	SIDP to 022	4	1/10/22, 6/20/22, 7/5/22, 10/3/22	None
	026	Monitored	4	1/6/22, 6/23/22, 7/5/22, 10/3/22	None
	027	SIDP to 026	4	2/10/22, 6/20/22, 7/5/22, 10/3/22	None
	028	SIDP to 026	4	1/6/22, 6/20/22, 7/18/22, 10/3/22	None
	075	Monitored	3	6/23/22, 7/5/22, 10/3/22	None

TA = Technical Area

SIDP = Substantially Identical Discharge Point

NPDES FORM 6100-28		UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, DC 20460 ANNUAL REPORT FOR STORMWATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY UNDER THE NPDES MULTI-SECTOR GENERAL PERMIT	FORM Approved OMB No. 2040-0300
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Permit Information

Report Year: 2021

Reporting Period: 1/1/2021 to 12/31/2021

NPDES ID: NMR050013

Facility Information

Facility Name: LOS ALAMOS NATIONAL LABORATORY

Facility Point of Contact

First NameMiddle InitialLast Name: TerrillLemke

Phone: 505-665-2397Ext.:

Email: tlemke@lanl.gov

Facility Mailing Address

Address Line 1: PO BOX 1663

Address Line 2: MS K490City: LOS ALAMOS

ZIP/Postal Code: 87545State: NM

County or Similar Division: Los Alamos

General Findings

Provide a summary of your past year's routine facility inspection documentation, including dates (see Part 3.1.6 of the permit). In addition, if you are an operator of an airport facility (Sector S) that is subject to the airport effluent limitations guidelines, and are complying with the MSGP Part 8.S.9 effluent limitation through the use of non-urea-containing deicers, provide a statement certifying that you do not use pavement deicers containing urea (e.g., "Urea was not used at [name of airport] for pavement deicing in the past year and will also not be used in 2021." (Note: Operators of airport facilities that are complying with Part 8.S.9 by meeting the numeric effluent limitation for ammonia do not need to include this statement.)

Los Alamos National Laboratory (LANL), operated by Triad National Security, LLC (Triad), consists of 8 active industrial sites that operate under 4 different Sectors (D, N, P, and AA). Permit coverage became effective on June 25, 2021. All 8 active sites were inspected according the schedules identified in the site-specific Stormwater Pollution Prevention Plans (SWPPP s). The 40 sites that qualify for a conditional exclusion for no exposure were inspected between November 1 through 22, 2021. A summary of inspections and associated corrective actions are included in Table 1 (attached).


Provide a summary of your past year's quarterly visual assessment documentation, including dates (see Part 3.2.3 of the permit).

Please see Table 2 (attached) for a summary of visual assessment documentation.

Provide a summary of your past year's corrective action and/or additional implementation measures (AIM) documentation (See Part 5.3 of the permit). (Note: If corrective action is not yet completed at the time of submission of this annual report, you must describe the status of any outstanding corrective action(s).) Note that you must modify your SWPPP based on the corrective actions and deadlines required under Part 5. Also describe any incidents of noncompliance in the past year or currently ongoing, or if none, provide a statement that you are in compliance with the permit.

Please see Table 1 (attached) for a summary of corrective action documentation, which specifies the frequency of each of the following by site: (1) unauthorized release or discharge, (2) control measures needing maintenance, repair or replacement, (3) control measures that were inadequate to meet the non-numeric effluent limitations, (4) effluent limitation guidelines exceedances, and (5) benchmark exceedances (AIM triggering events). One AIM Level 1 triggering event occurred, which was identified on January 18, 2022. Triad is investigating possible sources and appropriate corrective action for the parameter exceedance (Nitrate plus Nitrite Nitrogen) at outfall 022. All other corrective actions were completed per the schedule provided in Part 5.1.3. LANL is in compliance with the permit.

Attached files:

Name	Uploaded Date	Size
 2021 Annual Report Tables 1 and 2.docx (arptAttachment/762698)	01/24/2022	31.86 KB

Certification Information

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

Certified By: Jennifer payne

Certifier Title: Division Leader

Certifier Email: jpayne@lanl.gov

Certified On: 01/24/2022 5:43 PM ET

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

Facility	Status	Inspection Frequency	Inspections Conducted Between 6/25/2021 and 12/31/2021	Inspection Dates	Unauthorized Release or Discharge	Control Measures Needing Maintenance, Repairs, or Replacement or Installed Incorrectly	Control Measures Inadequate to Meet Non-Numeric Effluent Limitations	Incidents of Noncompliance (Effluent Limitation Guidelines Exceedances)	Average Exceeds or is Mathematically Certain to Exceed Benchmark Value (AIM Triggering Event)	AIM Level at end of Reporting Period
TA-3-29 Indoor TSD	No Exposure	Annually	1	11/8/2021	—	—	—	—	—	—
TA-3-29 Machine Shop	No Exposure	Annually	1	11/8/2021	—	—	—	—	—	—
TA-3-30 Warehouse	No Exposure	Annually	1	11/17/2021	1	—	—	—	—	—
TA-3-32 Metal Shop	No Exposure	Annually	1	11/17/2021	—	—	2	—	—	—
TA-3-34 Metal Shop	No Exposure	Annually	1	11/17/2021	1	—	1	—	—	—
TA-3-38 Metals Fabrication Shop	Active	Monthly	6	7/27/2021, 8/30/2021, 9/21/2021, 10/20/2021, 11/28/2021, 12/20/2021	—	—	4	—	—	Baseline
TA-3-39 and 102 Metal Shop	No Exposure	Annually	1	11/15/2021	3	1	4	—	—	—
TA-3-40, Room 131S Machine	No Exposure	Annually	1	11/17/2021	—	—	—	—	—	—
TA-3-66 Sigma Facility	No Exposure	Annually	1	11/17/2021	1	6	2	—	—	—

Facility	Status	Inspection Frequency	Inspections Conducted Between 6/25/2021 and 12/31/2021	Inspection Dates	Unauthorized Release or Discharge	Control Measures Needing Maintenance, Repairs, or Replacement or Installed Incorrectly	Control Measures Inadequate to Meet Non-Numeric Effluent Limitations	Incidents of Noncompliance (Effluent Limitation Guidelines Exceedances)	Average Exceeds or is Mathematically Certain to Exceed Benchmark Value (AIM Triggering Event)	AIM Level at end of Reporting Period
TA-3-2206 Warehouse	No Exposure	Annually	1	11/8/2021	—	—	—	—	—	—
TA-9-28 Heavy Equipment	No Exposure	Annually	1	11/10/2021	—	—	—	—	—	—
TA-9-0214 Metal Fabrication Shop	Active	Monthly	6	7/29/2021, 8/27/2021, 9/30/2021, 10/28/2021, 11/8/2021, 12/22/2021	2	—	1	—	—	Baseline
TA-14-23 Burn Cage	No Exposure	Annually	1	11/10/2021	—	—	—	—	—	—
TA-15-185 Phermex	No Exposure	Annually	1	11/10/2021	—	—	—	—	—	—
TA-15-313 Machine Shop	No Exposure	Annually	1	11/10/2021	—	—	—	—	—	—
TA-16 Stockpile Area	Active	Quarterly	2	9/23/2021, 11/8/2021	—	—	—	—	—	N/A
TA-22-52 Machine Shop	No Exposure	Annually	1	11/10/2021	—	—	—	—	—	—
TA-33-39 Machine Shop	No Exposure	Annually	1	11/10/2021	—	—	1	—	—	—
TA-33-113 Machine Shop	No Exposure	Annually	1	11/10/2021	—	—	—	—	—	—
TA-35-2 Machine Shop	No Exposure	Annually	1	11/17/2021	—	—	—	—	—	—
TA-35-125 Machine Shop	No Exposure	Annually	1	11/17/2021	—	—	1	—	—	—
TA-35-213 Target Fabrication	No Exposure	Annually	1	11/17/2021	—	1	1	—	—	—
TA-46-31 Machine Shop	No Exposure	Annually	1	11/10/2021	—	—	—	—	—	—
TA-46-77 Machine Shop	No Exposure	Annually	1	11/10/2021	—	—	1	—	—	—
TA-46-0624 Warehouse	No Exposure	Annually	1	11/8/2021	—	—	1	—	—	—
TA-48-8 Machine Shop	No Exposure	Annually	1	11/17/2021	—	—	1	—	—	—
TA-50-54 Machine Shop	No Exposure	Annually	1	11/17/2021	1	—	—	—	—	—
TA-50-69 WCRRF	No Exposure	Annually	1	11/8/2021	—	1	—	—	—	—
TA-53-2 Machine Shop	No Exposure	Annually	1	11/11/2021	—	—	—	—	—	—
TA-53-16/0726 Machine Shop	No Exposure	Annually	1	11/11/2021	—	—	1	—	—	—
TA-53-26 Machine Shop	No Exposure	Annually	1	11/11/2021	—	—	—	—	—	—
TA-54-38 Indoor TSD	No Exposure	Annually	1	11/8/2021	—	—	—	—	—	—
TA-54-38 Outdoor TSD	No Exposure	Annually	1	11/8/2021	—	1	—	—	—	—
TA-55-3 Metal Shop	No Exposure	Annually	1	11/22/2021	—	—	—	—	—	—
TA-55-PF-4 Indoor TSD	No Exposure	Annually	1	11/22/2021	—	—	—	—	—	—
TA-55-0005 Warehouse	No Exposure	Annually	1	11/22/2021	—	—	—	—	—	—
TA-55-0268 Warehouse	No Exposure	Annually	1	11/8/2021	—	—	1	—	—	—
TA-55-314 Warehouse	No Exposure	Annually	1	11/22/2021	—	—	—	—	—	—
TA-55-355 TSD	No Exposure	Annually	1	11/22/2021	—	—	—	—	—	—
TA-55-0430 Metal Shop	No Exposure	Annually	1	11/22/2021	—	—	—	—	—	—
TA-55-432 Warehouse	No Exposure	Annually	1	11/8/2021	—	—	—	—	—	—

Facility	Status	Inspection Frequency	Inspections Conducted Between 6/25/2021 and 12/31/2021	Inspection Dates	Unauthorized Release or Discharge	Control Measures Needing Maintenance, Repairs, or Replacement or Installed Incorrectly	Control Measures Inadequate to Meet Non-Numeric Effluent Limitations	Incidents of Noncompliance (Effluent Limitation Guidelines Exceedances)	Average Exceeds or is Mathematically Certain to Exceed Benchmark Value (AIM Triggering Event)	AIM Level at end of Reporting Period
TA-55 Outdoor TSD	No Exposure	Annually	1	11/22/2022	—	—	—	—	—	—
TA-60 Asphalt Batch Plant	Active	Monthly	6	7/12/2021, 8/2/2021, 9/1/2021, 10/3/2021, 11/9/2021, 12/20/2021	—	—	—	—	—	Baseline
TA-60 MRF	Active	Monthly	6	7/21/2021, 8/9/2021, 9/8/2021, 10/14/2021, 11/18/2021, 12/16/2021	—	—	—	—	—	N/A
TA-60 Roads and Grounds	Active	Monthly	6	7/22/2021, 8/18/2021, 9/27/2021, 10/19/2021, 11/29/2021, 12/20/2021	7	2	9	—	—	N/A
TA-60-1 Heavy Equipment Yard	Active	Monthly	6	7/23/2021, 8/23/2021, 9/17/2021, 10/15/2021, 11/15/2021, 12/9/2021	6	1	4	—	1	Level 1 – NO3+NO2-N
TA-60-2 Warehouse	Active	Monthly	6	7/21/2021, 8/24/2021, 9/22/2021, 10/28/2021, 11/16/2021, 12/14/2021	1	—	2	—	—	N/A
TA-63 Transuranic Waste Facility	No Exposure	Annually	1	11/8/2021	—	—	—	—	—	—

TA = Technical Area

TSD = Treatment, storage and disposal

WCRRF = Waste Characterization, Reduction, and Repackaging Facility

PF = Plutonium Facility

MRF = Material Recycling Facility

AIM = Additional Implementation Measures

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

Table 2. Summary of Quarterly Visual Assessments

Facility	Outfall	Outfall Type	Visual Assessments Performed between 7/1/2021 and 12/31/2021 (Q1 and Q2)	Visual Assessment Dates	Evidence of Pollutants Observed
TA-3-38 Metals Fabrication Shop	076	Monitored	1	7/19/2021	None
	077	Monitored	1	7/29/2021	None
TA-9-214 Metals Fabrication Shop	078	Monitored	0	-	-
TA-16 Stockpile Area	079	Monitored	0	-	-
TA-60 Asphalt Batch Plant	043	Monitored	0	-	-
TA-60 MRF	029	Monitored	1	7/6/2021	None
TA-60 Roads and Grounds	031	Monitored	1	8/3/2021	None
	030	SIDP to 031	1	7/21/2021	None
	032	Monitored	1	7/29/2021	None
	033	SIDP to 032	1	7/21/2021	None
	034	SIDP to 032	1	7/21/2021	None
	035	SIDP to 032	1	7/21/2021	None
	037	Monitored	0	-	-
	039	Monitored	0	-	-
	042	Monitored	1	8/5/2021	None
TA-60-1 Heavy Equipment Yard	022	Monitored	1	7/14/2021	None
	021	SIDP to 022	2	7/7/2021, 10/1/2021	None
	023	SIDP to 022	2	7/21/2021, 10/1/2021	None
	024	SIDP to 022	2	7/7/2021, 10/1/2021	None
	025	SIDP to 022	2	7/7/2021, 10/1/2021	None
TA-60-2 Warehouse	026	Monitored	1	7/6/2021	None
	027	SIDP to 026	1	10/1/2021	None
	028	SIDP to 026	2	7/7/2021, 10/1/2021	None
	075	Monitored	1	7/29/2021	None

TA = Technical Area

MRF = Material Recycling Facility

SIDP = Substantially Identical Discharge Point

Q = Monitoring Quarter

ATTACHMENT 7: ROUTINE FACILITY INSPECTIONS

Maintenance Details

Requested: 1/5/2023 11:48:00 AM

Target: 1/31/2023

 MSGP ProgramProcedure: MSGP Routine Facility
Inspection (EPC-CP-QP-2108
R0 Form 1)

Priority/Type: Normal / Inspection

 RG253Department: Weapons Facilities
Operations TA-09-0214 Metal Fabrication Shop

Last PM: 11/30/2022

Project: Routine Facility Inspections
January 2023 (P-MSGP-RI-
5620)

Contact:

Phone:

Reason: 2023 January Routine Facility Inspections

Tasks

#	Description	Meas.	No	N/A	Yes
Weather Information					
20	Describe the weather at time of inspection and document the temperature (F°). 33°, Sunny and Clear		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Within the Facility Boundary					
40	Is the facility free of previously unidentified discharges from and/or pollutants that have occurred since the last inspection If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
50	If "No" has a CAR been previously initiated for this new discharge?		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
60	Is the facility free of discharge of pollutants at the time of inspection? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
70	Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Outfall Inspection (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comment)					
90	Monitored Outfall [079] Free of Evidence of Erosion? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
100	Monitored Outfall [079] Flow Dissipation Devices Operating Effectively? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
110	Monitored Outfall [079] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
120	Monitored Outfall [079] Free of any unauthorized non-stormwater discharges? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Control Measures (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comments).					
140	Erosion Control Blanket [0900101060004] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
150	Rip Rap [0900104060003] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
160	EnviroSoxx w/ MetalLoxx [0900103200005] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
170	EnviroSoxx w/ MetalLoxx [0900103200006] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
180	Permanent Vegetation Vegetative Buffer Strip [0900102030001] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
190	Gravel Mulch [0900101050002] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Area/Activity exposed to stormwater (identify needed maintenance or a description of corrective actions in relevant task comment).					
210	Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
220	Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

230	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
240	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
250	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
260	Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
270	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
280	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
290	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
300	Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
310	Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
320	Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
330	Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
340	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
350	Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
360	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Non-Compliance				
380	Free of incidents of observed non-compliance not already identified above? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Additional Control Measures				
400	Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Labor

Labor	Assigned	Work Date	Reg Hrs	OT Hrs	Other Hrs
Kelkenny Bileen	1/5/2023 / 1				

Labor Report

Completed: 1045

Report:

Kelkenny Bileen	Digitally signed by Kelkenny Bileen DN: cn=Kelkenny Bileen, o=, ou=, email=kelkenny.bileen@epc.com	/Kelkenny Bileen	01/31/2023		
Signature / Name		Date		Signature / Name	Date

I confirm the information as recorded is true, accurate and complete.

CERTIFICATION STATEMENT

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

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

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

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

Print name and title: Derek Clark WFO FOD

Signature:  Date: 1/31/2023

Los Alamos National Laboratory




Work Order MSGP-RI-66285

MSGP Routine Inspection
Printed 12/1/2022 - 10:18 AM

Maintenance Details

Requested: 11/28/2022 11:50:00 AM
Procedure: MSGP Routine Facility Inspection (EPC-CP-QP-2108 R0 Form 1)
Last PM: 11/30/2022
Project: Routine Facility Inspections December 2022 (P-MSGP-RI-5613)

Target: 12/1/2022
Priority/Type: Normal / Inspection
Department: Weapons Facilities Operations

 MSGP Program
 RG253
 TA-09-0214 Metal Fabrication Shop

Contact:
Phone:

Reason: 2022 December Inspection

Tasks

#	Description	Meas.	No	N/A	Yes
Weather Information					
20	Describe the weather at time of inspection and document the temperature (F°). 40 degrees	Mostly Sunny & Breeze	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Within the Facility Boundary					
40	Is the facility free of previously unidentified discharges from and/or pollutants that have occurred since the last inspection If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
50	If "No" has a CAR been previously initiated for this new discharge?		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
60	Is the facility free of discharge of pollutants at the time of inspection? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
70	Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Outfall Inspection (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comment)					
90	Monitored Outfall [079] Free of Evidence of Erosion? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
100	Monitored Outfall [079] Flow Dissipation Devices Operating Effectively? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
110	Monitored Outfall [079] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
120	Monitored Outfall [079] Free of any unauthorized non-stormwater discharges? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Control Measures (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comments).					
140	Erosion Control Blanket [0900101060004] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
150	Rip Rap [0900104060003] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
160	EnviroSoxx w/ MetalLoxx [0900103200005] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
170	EnviroSoxx w/ MetalLoxx [0900103200006] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
180	Permanent Vegetation Vegetative Buffer Strip [0900102030001] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
190	Gravel Mulch [0900101050002] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Area/Activity exposed to stormwater (identify needed maintenance or a description of corrective actions in relevant task comment).					
210	Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
220	Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

230	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe. See Labor Report.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
240	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
250	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
260	Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
270	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
280	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
290	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
300	Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
310	Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
320	Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
330	Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
340	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
350	Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
360	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Non-Compliance				
380	Free of incidents of observed non-compliance not already identified above? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Additional Control Measures				
400	Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Labor

Labor	Assigned	Work Date	Reg Hrs	OT Hrs	Other Hrs
Kelkenny Bileen	11/28/2022 / 1				

Labor Report

Completed: 0930 12/20/22

Report:

CA # 2202; Metal piping and some angle iron were not covered.

12/21/2022. Metal piping and angle iron were adequate cover. Corrective Action Closed

Kelkenny Bileen

Digitally signed by Kelkenny Bileen
Date: 2022.12.22 10:28:36 -07'00'

12/22/22

Signature / Name

Date

Signature / Name

Date

I confirm the information as recorded is true, accurate and complete.

CERTIFICATION STATEMENT

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information contained therein. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information,

the information contained is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

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

Print name and title:

Derek Clark WFO FOD

Signature:



Date:

22DEC22

Los Alamos National Laboratory

Work Order MSGP-RI-66217

MSGP Routine Inspection
Printed 10/31/2022 - 4:33 PM

Maintenance Details

Requested: 10/28/2022 2:05:00 AM
Procedure: MSGP Routine Facility Inspection (EPC-CP-QP-2108 R0 Form 1)
Last PM: 10/25/2022
Project: Routine Facility Inspections November 2022 (P-MSGP-RI-5607)

Target: 11/30/2022
Priority/Type: Normal / Inspection
Department: Weapons Facilities Operations

 MSGP Program
 RG253
 TA-09-0214 Metal Fabrication Shop

Contact:
Phone:

Reason: 2022 November Inspection

Tasks

#	Description	Meas.	No	N/A	Yes
Weather Information					
20	Describe the weather at time of inspection and document the temperature (F°).	45° F cloudy	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Within the Facility Boundary					
40	Is the facility free of previously unidentified discharges from and/or pollutants that have occurred since the last inspection? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
50	If "No" has a CAR been previously initiated for this new discharge?		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
60	Is the facility free of discharge of pollutants at the time of inspection? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
70	Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Outfall Inspection (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comment)					
90	Monitored Outfall [079] Free of Evidence of Erosion? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
100	Monitored Outfall [079] Flow Dissipation Devices Operating Effectively? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
110	Monitored Outfall [079] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
120	Monitored Outfall [079] Free of any unauthorized non-stormwater discharges? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Control Measures (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comments).					
140	Erosion Control Blanket [0900101060004] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
150	Rip Rap [0900104060003] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
160	EnviroSoxx w/ MetalLoxx [0900103200005] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
170	EnviroSoxx w/ MetalLoxx [0900103200006] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
180	Permanent Vegetation Vegetative Buffer Strip [0900102030001] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
190	Gravel Mulch [0900101050002] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Area/Activity exposed to stormwater (identify needed maintenance or a description of corrective actions in relevant task comment).					
210	Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
220	Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

230	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
240	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
250	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
260	Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
270	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
280	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
290	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
300	Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
310	Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
320	Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
330	Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
340	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
350	Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
360	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Non-Compliance

380	Free of incidents of observed non-compliance not already identified above? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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Additional Control Measures

400	Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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Labor

Labor	Assigned	Work Date	Reg Hrs	OT Hrs	Other Hrs
Kelkenny Bileen	11/1/2022 / 14				

Labor Report

Completed: 1600

Report:

Kelkenny Bileen / Kelkenny Bileen 11/30/22

Signature / Name

Date

Signature / Name

Date

I confirm the information as recorded is true, accurate and complete.

CERTIFICATION STATEMENT

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information contained therein. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information,


the information contained is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

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

Print name and title: ROBERT SWICKLEY WFO DEPUTY FOD

Signature:  Date: 11/30/22

Maintenance Details

Requested: 9/29/2022 3:53:00 PM**Target:** 10/31/2022 MSGP Program**Procedure:** MSGP Routine Facility
Inspection (EPC-CP-QP-2108
R0 Form 1)**Priority/Type:** Normal / Inspection RG253**Department:** Weapons Facilities
Operations TA-09-0214 Metal Fabrication Shop**Last PM:** 9/28/2022**Project:** Routine Facility Inspections
October 2022 (P-MSGP-RI-
5602)**Contact:**
Phone:**Reason:** MSGP Routine Facility Inspection

Tasks

#	Description	Meas.	No	N/A	Yes
Weather Information					
20	Describe the weather at time of inspection and document the temperature (F°). <i>48° Sunny</i>		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Within the Facility Boundary					
40	Is the facility free of previously unidentified discharges from and/or pollutants that have occurred since the last inspection If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
50	If "No" has a CAR been previously initiated for this new discharge?		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
60	Is the facility free of discharge of pollutants at the time of inspection? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
70	Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Outfall Inspection (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comment)					
90	Monitored Outfall [079] Free of Evidence of Erosion? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
100	Monitored Outfall [079] Flow Dissipation Devices Operating Effectively? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
110	Monitored Outfall [079] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
120	Monitored Outfall [079] Free of any unauthorized non-stormwater discharges? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Control Measures (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comments).					
140	Erosion Control Blanket [0900101060004] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
150	Rip Rap [0900104060003] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
160	EnviroSoxx w/ MetalLoxx [0900103200005] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
170	EnviroSoxx w/ MetalLoxx [0900103200006] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
180	Permanent Vegetation Vegetative Buffer Strip [0900102030001] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
190	Gravel Mulch [0900101050002] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Area/Activity exposed to stormwater (identify needed maintenance or a description of corrective actions in relevant task comment).					
210	Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
220	Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
230	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

240	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
250	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
260	Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
270	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
280	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
290	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
300	Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
310	Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
320	Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
330	Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
340	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
350	Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
360	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Non-Compliance

380	Free of incidents of observed non-compliance not already identified above? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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Additional Control Measures

400	Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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Labor

Labor	Assigned	Work Date	Reg Hrs	OT Hrs	Other Hrs
Kelkenny Bileen	9/29/2022 / 1				

Labor Report

Completed: 1500

Report:

<u>Kelkenny Bileen / Kelkenny Bileen</u>	<u>10/26/22</u>		
Signature / Name	Date	Signature / Name	Date

I confirm the information as recorded is true, accurate and complete.

CERTIFICATION STATEMENT

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

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

Print name and title: ROBERT SWICKLEY

Signature: [Handwritten Signature] Date: 10/5/22

Maintenance Details

Requested: 9/1/2022 8:52:23 AM**Target:** 9/30/2022 MSGP Program**Procedure:** MSGP Routine Facility Inspection (EPC-CP-QP-2108 R0 Form 1)**Priority/Type:** Normal / Inspection RG253**Department:** Weapons Facilities Operations TA-09-0214 Metal Fabrication Shop**Last PM:** 7/28/2022**Contact:****Project:** Routine Facility Inspections
September 2022 (P-MSGP-RI-5599)**Phone:****Reason:** 2022 September Inspections

Tasks

#	Description	Meas.	No	N/A	Yes
Weather Information					
20	Describe the weather at time of inspection and document the temperature (F°). <i>72°F Partly Cloudy</i>		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Within the Facility Boundary					
40	Is the facility free of previously unidentified discharges from and/or pollutants that have occurred since the last inspection? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
50	If "No" has a CAR been previously initiated for this new discharge?		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
60	Is the facility free of discharge of pollutants at the time of inspection? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
70	Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Outfall Inspection (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comment)					
90	Monitored Outfall [079] Free of Evidence of Erosion? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
100	Monitored Outfall [079] Flow Dissipation Devices Operating Effectively? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
110	Monitored Outfall [079] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
120	Monitored Outfall [079] Free of any unauthorized non-stormwater discharges? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Control Measures (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comments).					
140	Erosion Control Blanket [0900101060004] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
150	Rip Rap [0900104060003] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
160	EnviroSoxx w/ MetalLoxx [0900103200005] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
170	EnviroSoxx w/ MetalLoxx [0900103200006] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
180	Permanent Vegetation Vegetative Buffer Strip [0900102030001] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
190	Gravel Mulch [0900101050002] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Area/Activity exposed to stormwater (identify needed maintenance or a description of corrective actions in relevant task comment).					
210	Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
220	Transfer areas for substances in bulk: controls adequate (appropriate, effective, and		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

	operating)? If "No" describe.			
230	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
240	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
250	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
260	Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
270	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
280	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
290	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
300	Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
310	Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
320	Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
330	Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
340	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
350	Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
360	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Non-Compliance				
380	Free of incidents of observed non-compliance not already identified above? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Additional Control Measures				
400	Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Labor

Labor	Assigned	Work Date	Reg Hrs	OT Hrs	Other Hrs
Kelkenny Bileen	9/1/2022 / 1				

Labor Report

Completed: 1428

Report: none

18 Bilen / Kelkenny Bileen 09/28/22

Signature / Name

Date

Signature / Name

Date

I confirm the information as recorded is true, accurate and complete.

CERTIFICATION STATEMENT

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information contained

therein. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information contained is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

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

Print name and title: ROBERT SWICKLEY WFO AFOP

Signature: [Signature] Date: 9/28/22

Maintenance Details

Requested: 7/29/2022 2:43:00 PM
Procedure: MSGP Routine Facility Inspection (EPC-CP-QP-2108 R0 Form 1)
Last PM: 7/28/2022
Project: Routine Facility Inspections August 2022 (P-MSGP-RI-5597)

Target: 8/31/2022
Priority/Type: Normal / Inspection
Department: Weapons Facilities Operations

 MSGP Program
 RG253
 TA-09-0214 Metal Fabrication Shop

Contact:
Phone:

Reason: 2022 August Inspections

Tasks

#	Description	Meas.	No	N/A	Yes
Weather Information					
20	Describe the weather at time of inspection and document the temperature (F°). <i>93° Partly Cloudy</i>		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Within the Facility Boundary					
40	Is the facility free of previously unidentified discharges from and/or pollutants that have occurred since the last inspection If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
50	If "No" has a CAR been previously initiated for this new discharge?		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
60	Is the facility free of discharge of pollutants at the time of inspection? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
70	Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Outfall Inspection (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comment)					
90	Monitored Outfall [079] Free of Evidence of Erosion? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
100	Monitored Outfall [079] Flow Dissipation Devices Operating Effectively? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
110	Monitored Outfall [079] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
120	Monitored Outfall [079] Free of any unauthorized non-stormwater discharges? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Control Measures (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comments).					
140	Erosion Control Blanket [0900101060004] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
150	Rip Rap [0900104060003] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
160	EnviroSoxx w/ MetalLoxx [0900103200005] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
170	EnviroSoxx w/ MetalLoxx [0900103200006] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
180	Permanent Vegetation Vegetative Buffer Strip [0900102030001] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
190	Gravel Mulch [0900101050002] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Area/Activity exposed to stormwater (identify needed maintenance or a description of corrective actions in relevant task comment).					
210	Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
220	Transfer areas for substances in bulk: controls adequate (appropriate, effective, and		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

	operating)? If "No" describe.			
230	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
240	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
250	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
260	Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
270	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
280	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
290	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
300	Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
310	Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
320	Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
330	Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
340	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
350	Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
360	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Non-Compliance

380	Free of incidents of observed non-compliance not already identified above? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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Additional Control Measures

400	Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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Labor

Labor	Assigned	Work Date	Reg Hrs	OT Hrs	Other Hrs
Kelkenny Bileen	7/29/2022 / 1				

Labor Report

Completed: 1335

Report:

Kelkenny Bileen / Kelkenny Bileen 08/25/22

Signature / Name

Date

Signature / Name

Date

I confirm the information as recorded is true, accurate and complete.

CERTIFICATION STATEMENT

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

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

Print name and title: ROBERT SWICKLEY / WFO DEOD

Signature:  Date: 9/13/22

Maintenance Details

Requested: 6/30/2022 1:57:00 PM

Target: 7/31/2022

MSGP Program

Procedure: MSGP Routine Facility
Inspection (EPC-CP-QP-
2108 R0 Form 1)

Priority/Type: Normal / Inspection

RG253

Department: Weapons Facilities
Operations

TA-09-0214 Metal Fabrication Shop

Last PM: 6/7/2022

Project: Routine Facility Inspections
July 2022 (P-MSGP-RI-5588)Contact:
Phone:

Reason: 2022 July Inspections

Tasks

#	Description	Meas.	No	N/A	Yes
Weather Information					
20	Describe the weather at time of inspection and document the temperature (F°). <i>cloudy 71°F</i>		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Within the Facility Boundary					
40	Is the facility free of previously unidentified discharges from and/or pollutants that have occurred since the last inspection If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
50	If "No" has a CAR been previously initiated for this new discharge?		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
60	Is the facility free of discharge of pollutants at the time of inspection? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
70	Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Outfall Inspection (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comment)					
90	Monitored Outfall [079] Free of Evidence of Erosion? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
100	Monitored Outfall [079] Flow Dissipation Devices Operating Effectively? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
110	Monitored Outfall [079] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
120	Monitored Outfall [079] Free of any unauthorized non-stormwater discharges? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Control Measures (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comments).					
140	Erosion Control Blanket [0900101060004] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
150	Rip Rap [0900104060003] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
160	EnviroSoxx w/ MetalLoxx [0900103200005] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
170	EnviroSoxx w/ MetalLoxx [0900103200006] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
180	Permanent Vegetation Vegetative Buffer Strip [0900102030001] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
190	Gravel Mulch [0900101050002] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Area/Activity exposed to stormwater (identify needed maintenance or a description of corrective actions in relevant task comment).					
210	Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
220	Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

230	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
240	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
250	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
260	Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
270	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
280	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
290	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
300	Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
310	Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
320	Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
330	Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
340	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
350	Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
360	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Non-Compliance

380	Free of incidents of observed non-compliance not already identified above? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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Additional Control Measures

400	Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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Labor

Labor	Assigned	Work Date	Reg Hrs	OT Hrs	Other Hrs
Kelkenny Bileen	6/30/2022 / 1				

Labor Report

Completed: 1300

Report:

12 B C / Kelkenny Bileen 6/28/22
Signature / Name Date

Signature / Name Date

I confirm the information as recorded is true, accurate and complete.

CERTIFICATION STATEMENT

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information contained therein. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering

the information, the information contained is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

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

Print name and title: ROBERT SWICKLEY

Signature: [Handwritten Signature] Date: 7/28/22

Los Alamos National Laboratory

Work Order MSGP-RI-65928

MSGP Routine Inspection
Printed 5/31/2022 - 4:37 PM

Maintenance Details

Requested: 5/31/2022 4:32:08 PM
Procedure: MSGP Routine Facility Inspection (EPC-CP-QP-2108 R0 Form 1)

Target: 6/30/2022
Priority/Type: Normal / Inspection
Department: Weapons Facilities Operations

 MSGP Program
 RG253
 TA-09-0214 Metal Fabrication Shop

Last PM: 5/9/2022
Project: Routine Facility Inspections
June 2022 (P-MSGP-RI-5580)

Contact:
Phone:

Reason: 2022 June Inspections

Tasks

#	Description	Meas.	No	N/A	Yes
Weather Information					
20	Describe the weather at time of inspection and document the temperature (F°). <u>SUNNY 74°F</u>				<input checked="" type="checkbox"/>
Within the Facility Boundary					
40	Is the facility free of previously unidentified discharges from and/or pollutants that have occurred since the last inspection If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
50	If "No" has a CAR been previously initiated for this new discharge?		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
60	Is the facility free of discharge of pollutants at the time of inspection? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
70	Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Outfall Inspection (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comment)					
90	Monitored Outfall [079] Free of Evidence of Erosion? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
100	Monitored Outfall [079] Flow Dissipation Devices Operating Effectively? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
110	Monitored Outfall [079] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
120	Monitored Outfall [079] Free of any unauthorized non-stormwater discharges? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Control Measures (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comments).					
140	Erosion Control Blanket [0900101060004] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
150	Rip Rap [0900104060003] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
160	EnviroSoxx w/ MetalLoxx [0900103200005] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
170	EnviroSoxx w/ MetalLoxx [0900103200006] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
180	Permanent Vegetation Vegetative Buffer Strip [0900102030001] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
190	Gravel Mulch [0900101050002] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Area/Activity exposed to stormwater (identify needed maintenance or a description of corrective actions in relevant task comment).					
210	Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
220	Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

230	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
240	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
250	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
260	Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
270	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
280	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
290	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
300	Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
310	Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
320	Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
330	Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
340	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
350	Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
360	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Non-Compliance				
380	Free of incidents of observed non-compliance not already identified above? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Additional Control Measures				
400	Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Labor

Labor	Assigned	Work Date	Reg Hrs	OT Hrs	Other Hrs
Kelkenny Bileen	5/31/2022 / 1				

Labor Report

Completed: 10:38AM

Report:

Kelkenny Bileen
Signature / Name

06/07/22
Date

Signature / Name

Date

I confirm the information as recorded is true, accurate and complete.

CERTIFICATION STATEMENT

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information contained therein. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information,

the information contained is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

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

Print name and title: ROBERT SWICKLEY, DEPUTY FOD

Signature:  Date: 6/1/22

Maintenance Details

Requested: 5/2/2022 9:14:00 AM**Target:** 5/31/2022 MSGP Program**Procedure:** MSGP Routine Facility Inspection (EPC-CP-QP-2108 R0 Form 1)**Priority/Type:** Normal / Inspection RG253**Department:** Weapons Facilities Operations TA-09-0214 Metal Fabrication Shop**Last PM:** 4/21/2022**Project:** Routine Facility Inspections
May 2022 (P-MSGP-RI-5575)**Contact:**
Phone:**Reason:** 2022 May Inspections

Tasks

#	Description	Meas.	No	N/A	Yes
Weather Information					
20	Describe the weather at time of inspection and document the temperature (F°). <i>Sunny 75°F</i>		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Within the Facility Boundary					
40	Is the facility free of previously unidentified discharges from and/or pollutants that have occurred since the last inspection If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
50	If "No" has a CAR been previously initiated for this new discharge?		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
60	Is the facility free of discharge of pollutants at the time of inspection? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
70	Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Outfall Inspection (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comment)					
90	Monitored Outfall [079] Free of Evidence of Erosion? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
100	Monitored Outfall [079] Flow Dissipation Devices Operating Effectively? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
110	Monitored Outfall [079] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
120	Monitored Outfall [079] Free of any unauthorized non-stormwater discharges? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Control Measures (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comments).					
140	Erosion Control Blanket [0900101060004] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
150	Rip Rap [0900104060003] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
160	EnviroSoxx w/ MetalLoxx [0900103200005] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
170	EnviroSoxx w/ MetalLoxx [0900103200006] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
180	Permanent Vegetation Vegetative Buffer Strip [0900102030001] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
190	Gravel Mulch [0900101050002] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Area/Activity exposed to stormwater (identify needed maintenance or a description of corrective actions in relevant task comment).					
210	Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
220	Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
230	Product/chemical storage areas (raw material): controls adequate (appropriate, effective,		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

	and operating)? If "No" describe.			
240	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
250	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
260	Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
270	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
280	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
290	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
300	Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
310	Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
320	Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
330	Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
340	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
350	Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
360	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Non-Compliance

380	Free of incidents of observed non-compliance not already identified above? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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Additional Control Measures

400	Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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Labor

Labor	Assigned	Work Date	Reg Hrs	OT Hrs	Other Hrs
Kelkenny Bileen	5/31/2022 / 14				

Labor Report

Completed: 10:30 AM

Report:

<u>W Bilen / Kelkenny Bileen</u>	<u>05/08/22</u>	
Signature / Name	Date	Signature / Name

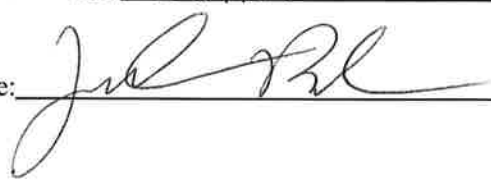
I confirm the information as recorded is true, accurate and complete.

CERTIFICATION STATEMENT

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

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

Print name and title: John Branch WFO-OM

Signature: 

Date: 5/9/2022

Maintenance Details

Requested: 4/5/2022 4:47:00 PM

Target: 4/28/2022

 MSGP ProgramProcedure: MSGP Routine Facility
Inspection (EPC-CP-QP-2108
R0 Form 1)

Priority/Type: Normal / Inspection

 RG253Department: Weapons Facilities
Operations TA-09-0214 Metal Fabrication Shop

Last PM: 3/24/2022

Project: Routine Facility Inspections
April 2022 (P-MSGP-RI-5567)Contact:
Phone:

Reason: 2022 April Inspections

Tasks

#	Description	Meas.	No	N/A	Yes
Weather Information					
20	Describe the weather at time of inspection and document the temperature (F°). <u>SUNNY 64°F</u>		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Within the Facility Boundary					
40	Is the facility free of previously unidentified discharges from and/or pollutants that have occurred since the last inspection If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
50	If "No" has a CAR been previously initiated for this new discharge?		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
60	Is the facility free of discharge of pollutants at the time of inspection? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
70	Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Outfall Inspection (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comment)					
90	Monitored Outfall [079] Free of Evidence of Erosion? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
100	Monitored Outfall [079] Flow Dissipation Devices Operating Effectively? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
110	Monitored Outfall [079] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
120	Monitored Outfall [079] Free of any unauthorized non-stormwater discharges? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Control Measures (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comments).					
140	Erosion Control Blanket [0900101060004] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
150	Rip Rap [0900104060003] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
160	EnviroSoxx w/ MetalLoxx [0900103200005] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
170	EnviroSoxx w/ MetalLoxx [0900103200006] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
180	Permanent Vegetation Vegetative Buffer Strip [0900102030001] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
190	Gravel Mulch [0900101050002] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Area/Activity exposed to stormwater (identify needed maintenance or a description of corrective actions in relevant task comment).					
210	Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
220	Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
230	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
240	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
250	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
260	Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

270	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
280	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
290	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
300	Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
310	Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
320	Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
330	Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
340	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
350	Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
360	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Non-Compliance				
380	Free of incidents of observed non-compliance not already identified above? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Additional Control Measures				
400	Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Labor

Labor

Work Date Reg Hrs OT Hrs Other Hrs

Labor Report

Completed: 11:28 pm

Report:

Kelly Blum / Kel Kenny
Signature / Name *Blum*

4/21/22
Date

Signature / Name

Date

I confirm the information as recorded is true, accurate and complete.

CERTIFICATION STATEMENT

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

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

Print name and title: John Branch

Signature: *JB* Date: 4-21-2022

Los Alamos National Laboratory

Work Order MSGP-65680

MSGP Monitoring Stations
Printed 3/14/2022 - 5:26 PM

Maintenance Details

Requested: 3/14/2022 4:52:00 PM

Target: 3/31/2022

MSGP Program

Procedure: MSGP Routine Facility
Inspection (EPC-CP-QP-2108
R0 Form 1)

Priority/Type: / Inspection

RG253

Department: Weapons Facilities
Operations

TA-09-0214 Metal Fabrication Shop

Last PM: 2/28/2022

Project: Routine Facility Inspections
March 2022 (P-MSGP-RI-
5560)

Contact:
Phone:

Reason: 2022 March Inspections

Tasks

#	Description	Meas.	No	N/A	Yes
Weather Information					
20	Describe the weather at time of inspection and document the temperature (F) <u>SUNNY</u>	<u>38°F</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Within the Facility Boundary					
40	Is the facility free of previously unidentified discharges from and/or pollutants that have occurred since the last inspection If "No" describe		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
50	If "No" has a CAR been previously initiated for this new discharge?		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
60	Is the facility free of discharge of pollutants at the time of inspection? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
70	Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Outfall Inspection (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comment)					
90	Monitored Outfall [079] Free of Evidence of Erosion? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
100	Monitored Outfall [079] Flow Dissipation Devices Operating Effectively? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
110	Monitored Outfall [079] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
120	Monitored Outfall [079] Free of any unauthorized non-stormwater discharges? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Control Measures (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comments).					
140	Erosion Control Blanket [0900101060004] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
150	Rip Rap [0900104060003] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
160	EnviroSoxx w/ MetalLoxx [0900103200005] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
170	EnviroSoxx w/ MetalLoxx [0900103200006] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
180	Permanent Vegetation Vegetative Buffer Strip [0900102030001] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
190	Gravel Mulch [0900101050002] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Area/Activity exposed to stormwater (identify needed maintenance or a description of corrective actions in relevant task comment).					
210	Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
220	Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

230	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
240	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
250	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
260	Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
270	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
280	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
290	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
300	Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
310	Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
320	Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
330	Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
340	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
350	Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
360	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Non-Compliance

380	Free of incidents of observed non-compliance not already identified above? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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Additional Control Measures

400	Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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Labor

Labor	Assigned	Work Date	Reg Hrs	OT Hrs	Other Hrs
Kelkenny Bileen	2/25/2022 / 1				

Labor Report

Completed: 3/24/22 @ 8:30 a.m.

Report:

Kelkenny Bileen 03/24/22

Signature / Name

Date

Signature / Name

Date

I confirm the information as recorded is true, accurate and complete.

CERTIFICATION STATEMENT

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information contained therein. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information,

the information contained is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

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

Print name and title: ROBERT SWICKLEY, OFOD


Signature: [Signature]

Date: 3/24/22

Maintenance Details

Requested: 12/17/2021 1:12:09 PM
Procedure: MSGP Routine Facility Inspection (EPC-CP-QP-2108 R0 Form 1)

Target: 2/28/2022
Priority/Type: Normal / Inspection
Department: Weapons Facilities Operations

 MSGP Program
 RG253
 TA-09-0214 Metal Fabrication Shop

Last PM: 12/22/2021
Project: Routine Facility Inspections February 2022 (P-MSGP-RI-5545)

Contact:
Phone:

Reason: 2022 February Inspections

Tasks

#	Description	Meas.	No	N/A	Yes
Weather Information					
20	Describe the weather at time of inspection and document the temperature (F°). <i>PARTLY SUNNY 9:21 a.m</i>		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Within the Facility Boundary					
40	Is the facility free of previously unidentified discharges from and/or pollutants that have occurred since the last inspection If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
50	If "No" has a CAR been previously initiated for this new discharge?		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
60	Is the facility free of discharge of pollutants at the time of inspection? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
70	Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Outfall Inspection (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comment)					
90	Monitored Outfall [079] Free of Evidence of Erosion? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
100	Monitored Outfall [079] Flow Dissipation Devices Operating Effectively? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
110	Monitored Outfall [079] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
120	Monitored Outfall [079] Free of any unauthorized non-stormwater discharges? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Control Measures (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comments).					
140	Erosion Control Blanket [0900101060004] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
150	Rip Rap [0900104060003] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
160	EnviroSoxx w/ MetalLoxx [0900103200005] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
170	EnviroSoxx w/ MetalLoxx [0900103200006] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
180	Permanent Vegetation Vegetative Buffer Strip [0900102030001] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Area/Activity exposed to stormwater (identify needed maintenance or a description of corrective actions in relevant task comment).					
200	Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
210	Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
220	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

230	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
240	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
250	Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
260	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
270	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
280	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
290	Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
300	Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
310	Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
320	Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
330	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
340	Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
350	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Non-Compliance

370	Free of incidents of observed non-compliance not already identified above? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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Additional Control Measures

390	Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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Labor

Labor	Assigned	Work Date	Reg Hrs	OT Hrs	Other Hrs
Kelkenny Bileen	2/1/2022 / 14				

Labor Report

Completed: 0940

Report:

<u>1 J Bilen</u>	<u>02/28/22</u>		
Signature / Name	Date	Signature / Name	Date

I confirm the information as recorded is true, accurate and complete.

CERTIFICATION STATEMENT

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

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

Print name and title: John Branch WFO-HE OM

Signature: John Branch Date: 3-1-2022

Maintenance Details

Requested: 12/17/2021 1:05:00 PM
Procedure: MSGP Routine Facility Inspection (EPC-CP-QP-2108 R0 Form 1)
Last PM: 11/8/2021
Project: Routine Facility Inspections January 2022 (P-MSGP-RI-5544)

Target: 1/31/2022
Priority/Type: Normal / Inspection
Department: Weapons Facilities Operations

 MSGP Program
 RG253
 TA-09-0214 Metal Fabrication Shop

Contact:
Phone:

Reason: 2022 January Inspections

Tasks

#	Description	Meas.	No	N/A	Yes
Weather Information					
20	Describe the weather at time of inspection and document the temperature (F°). 39°F MOSTLY SUNNY		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Within the Facility Boundary					
40	Is the facility free of previously unidentified discharges from and/or pollutants that have occurred since the last inspection If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
50	If "No" has a CAR been previously initiated for this new discharge?		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
60	Is the facility free of discharge of pollutants at the time of inspection? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
70	Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Outfall Inspection (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comment)					
90	Monitored Outfall [079] Free of Evidence of Erosion? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
100	Monitored Outfall [079] Flow Dissipation Devices Operating Effectively? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
110	Monitored Outfall [079] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
120	Monitored Outfall [079] Free of any unauthorized non-stormwater discharges? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Control Measures (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comments).					
140	Erosion Control Blanket [0900101060004] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
150	Rip Rap [0900104060003] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
160	EnviroSoxx w/ MetalLoxx [0900103200005] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
170	EnviroSoxx w/ MetalLoxx [0900103200006] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
180	Permanent Vegetation Vegetative Buffer Strip [0900102030001] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Area/Activity exposed to stormwater (identify needed maintenance or a description of corrective actions in relevant task comment).					
200	Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
210	Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
220	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

230	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
240	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
250	Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
260	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
270	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
280	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
290	Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
300	Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
310	Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
320	Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
330	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
340	Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
350	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Non-Compliance

370	Free of incidents of observed non-compliance not already identified above? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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Additional Control Measures

390	Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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Labor

Labor	Assigned	Work Date	Reg Hrs	OT Hrs	Other Hrs
Kelkenny Bileen	1/1/2022 / 14				

Labor Report

Completed: _____

Report: COMPLETED @ 1400

<u>Kelkenny Bileen</u>	<u>01/04/22</u>		
Signature / Name	Date	Signature / Name	Date

I confirm the information as recorded is true, accurate and complete.

CERTIFICATION STATEMENT

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

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

Print name and title: J. H. S. A. SISNEROS WFO - DFOD

Signature: [Signature] Date: 1/4/2022

Maintenance Details

Requested: 12/1/2021 12:04:25 PM

Target: 12/31/2021

 **MSGP Program**

Procedure: MSGP Routine Facility Inspection (EPC-CP-QP-2108 R0 Form 1)

Priority/Type: Normal / Inspection

 **RG253**

Department: Weapons Facilities Operations

 **TA-09-0214 Metal Fabrication Shop**

Last PM: 11/8/2021

Contact:

Project: Routine Facility Inspections December 2021 (P-MSGP-RI-5538)

Phone:

Reason: 2021 December Inspections

Tasks

#	Description	Meas.	No	N/A	Yes
Weather Information					
20	Describe the weather at time of inspection and document the temperature (F°). Sunny, Clear, 45 degrees		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Within the Facility Boundary					
40	Is the facility free of previously unidentified discharges from and/or pollutants that have occurred since the last inspection If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
50	If "No" has a CAR been previously initiated for this new discharge?		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
60	Is the facility free of discharge of pollutants at the time of inspection? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
70	Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Outfall Inspection (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comment)					
90	Monitored Outfall [079] Free of Evidence of Erosion? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
100	Monitored Outfall [079] Flow Dissipation Devices Operating Effectively? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
110	Monitored Outfall [079] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
120	Monitored Outfall [079] Free of any unauthorized non-stormwater discharges? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Control Measures (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comments).					
140	Erosion Control Blanket [0900101060004] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
150	Rip Rap [0900104060003] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
160	EnviroSoxx w/ MetalLoxx [0900103200005] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
170	EnviroSoxx w/ MetalLoxx [0900103200006] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
180	Permanent Vegetation Vegetative Buffer Strip [0900102030001] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Area/Activity exposed to stormwater (identify needed maintenance or a description of corrective actions in relevant task comment).					
200	Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
210	Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
220	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe. Raw Material needs to be completely covered.		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
230	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
240	Industrial processing and finished product storage areas: controls adequate (appropriate,		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

	effective, and operating)? If "No" describe.			
250	Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
260	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
270	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
280	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
290	Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
300	Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
310	Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
320	Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
330	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
340	Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
350	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Non-Compliance				
370	Free of incidents of observed non-compliance not already identified above? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Additional Control Measures				
390	Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Labor

Labor	Assigned	Work Date	Reg Hrs	OT Hrs	Other Hrs
Kelkenny Bileen	12/1/2021 / 14				

Labor Report

Completed: 12/22/2021

Report:

TARP have been deployed and raw material are covered.

Kelkenny Bileen 12/22/21
Signature / Name Date

Signature / Name Date

I confirm the information as recorded is true, accurate and complete.

CERTIFICATION STATEMENT

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

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

Print name and title: John Branch WFO-HE Operations Manager


Signature: John Branch Date: 12-22-2021

Los Alamos National Laboratory

Work Order MSGP-RI-65344

MSGP Routine Inspection
Printed 11/16/2021 - 12:16 PM

Maintenance Details

Requested: 11/1/2021 11:37:00 AM**Target:** 11/28/2021 MSGP Program**Procedure:** MSGP Routine Facility Inspection (EPC-CP-QP-2108 R0 Form 1)**Priority/Type:** Normal / Inspection RG253**Department:** Weapons Facilities Operations TA-09-0214 Metal Fabrication Shop**Last PM:** 10/28/2021**Contact:****Project:** Routine Facility Inspections November 2021 (P-MSGP-RI-5530)**Phone:****Reason:** 2021 November Inspections

Tasks

#	Description	Meas.	No	N/A	Yes
Weather Information					
20	Describe the weather at time of inspection and document the temperature (F°). Comments: Partly cloudy 72 degrees		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Within the Facility Boundary					
40	Is the facility free of previously unidentified discharges from and/or pollutants that have occurred since the last inspection If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
50	If "No" has a CAR been previously initiated for this new discharge?		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
60	Is the facility free of discharge of pollutants at the time of inspection? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
70	Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Outfall Inspection (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comment)					
90	Monitored Outfall [079] Free of Evidence of Erosion? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
100	Monitored Outfall [079] Flow Dissipation Devices Operating Effectively? If "No", describe.		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
110	Monitored Outfall [079] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
120	Monitored Outfall [079] Free of any unauthorized non-stormwater discharges? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Control Measures (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comments).					
140	Erosion Control Blanket [0900101060004] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
150	Rip Rap [0900104060003] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
160	EnviroSoxx w/ MetalLoxx [0900103200005] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
170	EnviroSoxx w/ MetalLoxx [0900103200006] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
180	Permanent Vegetation Vegetative Buffer Strip [0900102030001] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

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

200	Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
210	Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
220	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
230	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
240	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
250	Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
260	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
270	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
280	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
290	Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
300	Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
310	Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
320	Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
330	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
340	Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
350	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Non-Compliance				
370	Free of incidents of observed non-compliance not already identified above? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Additional Control Measures				
390	Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Labor Report

11/8/2021

Completed: 1:30:00 PM**Report:** Kelkenny Bileen, DEP

11/13/2021 - 178009: No deficiency found.

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: John Branch WFO-HEOM

Signature: John Branch Date: 11-16-2021

Maintenance Details

Requested: 10/4/2021 11:35:00 AM
Procedure: MSGP Routine Facility Inspection (EPC-CP-QP-2108 R0 Form 1)
Last PM: 9/23/2021
Project: Routine Facility Inspections October 2021 (P-MSGP-RI-5524)
Reason: 2021 October Inspections

Target: 10/31/2021
Priority/Type: Normal / Inspection
Department: Weapons Facilities Operations

 MSGP Program
 RG253
 TA-09-0214 Metal Fabrication Shop

Contact:
Phone:

Tasks

#	Description	Meas.	No	N/A	Yes
Weather Information		72 degrees, Partly Cloudy			
20	Describe the weather at time of inspection and document the temperature (F°).	Cloudy	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Within the Facility Boundary					
40	Is the facility free of previously unidentified discharges from and/or pollutants that have occurred since the last inspection? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
50	If "No" has a CAR been previously initiated for this new discharge?		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
60	Is the facility free of discharge of pollutants at the time of inspection? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
70	Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Outfall Inspection (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comment)					
90	Monitored Outfall [079] Free of Evidence of Erosion? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
100	Monitored Outfall [079] Flow Dissipation Devices Operating Effectively? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
110	Monitored Outfall [079] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
120	Monitored Outfall [079] Free of any unauthorized non-stormwater discharges? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Control Measures (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comments).					
140	Erosion Control Blanket [0900101060004] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
150	Rip Rap [0900104060003] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
160	EnviroSoxx w/ MetalLoxx [0900103200005] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
170	EnviroSoxx w/ MetalLoxx [0900103200006] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
180	Permanent Vegetation Vegetative Buffer Strip [0900102030001] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Area/Activity exposed to stormwater (identify needed maintenance or a description of corrective actions in relevant task comment).					
200	Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
210	Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
220	Product/chemical storage areas (raw material): controls adequate (appropriate, effective,		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

	and operating)? If "No" describe.			
230	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
240	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
250	Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
260	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
270	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
280	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
290	Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
300	Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
310	Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
320	Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
330	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
340	Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
350	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Non-Compliance

370	Free of incidents of observed non-compliance not already identified above? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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Additional Control Measures

390	Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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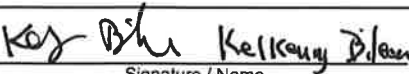
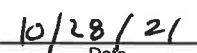


Labor

Labor	Assigned	Work Date	Reg Hrs	OT Hrs	Other Hrs
Kelkenny Bileen	10/1/2021 / 14				

Labor Report

Completed: _____

Report: _____

I confirm the information as recorded is true, accurate and complete.

CERTIFICATION STATEMENT

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

there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations".

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

Print name and title: Thomas A. Sisneros Operations Manager 5

Signature:

Date:

10/28/2021

Los Alamos National Laboratory

Work Order MSGP-RI-65147

MSGP Routine Inspection
Printed 8/30/2021 - 5:25 PM

Maintenance Details

Requested: 8/30/2021 5:22:16 PM
Procedure: MSGP Routine Facility Inspection (EPC-CP-QP-2108 R0 Form 1)
Last PM: 8/27/2021
Project: Routine Facility Inspections September 2021 (P-MSGP-RI-5516)

Target: 9/30/2021
Priority/Type: Normal / Inspection
Department: Weapons Facilities Operations

 **MSGP Program**
 **RG253**
 **TA-09-0214 Metal Fabrication Shop**

Contact:
Phone:

Reason: MSGP Routine Facility Inspection

Tasks

#	Description	Meas.	No	N/A	Yes
Weather Information					
20	Describe the weather at time of inspection and document the temperature (F°). <i>Partly Cloudy</i>	89°	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Within the Facility Boundary					
40	Is the facility free of previously unidentified discharges from and/or pollutants that have occurred since the last inspection? If "No" describe.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
50	If "No" has a CAR been previously initiated for this new discharge?		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
60	Is the facility free of discharge of pollutants at the time of inspection? If "No" describe.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
70	Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Outfall Inspection (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comment)					
90	Monitored Outfall [079] Free of Evidence of Erosion? If "No", describe.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
100	Monitored Outfall [079] Flow Dissipation Devices Operating Effectively? If "No", describe.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
110	Monitored Outfall [079] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
120	Monitored Outfall [079] Free of any unauthorized non-stormwater discharges? If "No" describe.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Control Measures (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comments).					
140	Erosion Control Blanket [0900101060004] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
150	Rip Rap [0900104060003] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
160	EnviroSoxx w/ MetalLoxx [0900103200005] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
170	EnviroSoxx w/ MetalLoxx [0900103200006] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
180	Permanent Vegetation Vegetative Buffer Strip [0900102030001] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Area/Activity exposed to stormwater (identify needed maintenance or a description of corrective actions in relevant task comment).					
200	Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
210	Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
220	Product/chemical storage areas (raw material): controls adequate (appropriate, effective and operating)? If "No" describe.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
230	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

	operating)? If "No" describe.			
240	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
250	Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
260	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
270	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
280	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
290	Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
300	Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
310	Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
320	Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
330	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
340	Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
350	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Non-Compliance				
370	Free of incidents of observed non-compliance not already identified above? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Additional Control Measures				
390	Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Labor

Labor	Assigned	Work Date	Reg Hrs	OT Hrs	Other Hrs
Kelkenny Bileen	9/1/2021 / 14				

Labor Report

Completed: _____

Report:

CAR #2012 Unauthorized release, hydraulic release

CAR # 2019 Unauthorized release, compressor oil release

KB Kelkenny Bileen 09/30/21

Signature / Name

Date

Signature / Name

Date

I confirm the information as recorded is true, accurate and complete.

CERTIFICATION STATEMENT

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

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

Print name and title: John Branch WFO-HEOM

Signature: John Branch Date: 9/30/2021

Maintenance Details

Requested: 8/2/2021 9:41:00 AM
Procedure: MSGP Routine Facility Inspection (EPC-CP-QP-2108 R0 Form 1)

Target: 8/31/2021
Priority/Type: Normal / Inspection
Department: Weapons Facilities Operations

 MSGP Program
 RG253
 TA-09-0214 Metal Fabrication Shop

Last PM: N/A
Project: Routine Facility Inspections August 2021 (P-MSGP-RI-5510)

Contact:
Phone:

Reason: 2021 August Inspections

Tasks

#	Description	Meas.	No	N/A	Yes
Weather Information					
20	Describe the weather at time of inspection and document the temperature (F°). <i>76°</i>		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Within the Facility Boundary					
40	Is the facility free of previously unidentified discharges from and/or pollutants that have occurred since the last inspection If "No" describe. <i>Scattered T-storm</i>		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
50	If "No" has a CAR been previously initiated for this new discharge?		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
60	Is the facility free of discharge of pollutants at the time of inspection? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
70	Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Outfall Inspection (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comment)					
90	Monitored Outfall [079] Free of Evidence of Erosion? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
100	Monitored Outfall [079] Flow Dissipation Devices Operating Effectively? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
110	Monitored Outfall [079] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
120	Monitored Outfall [079] Free of any unauthorized non-stormwater discharges? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Control Measures (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comments).					
140	Erosion Control Blanket [0900101060004] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
150	Rip Rap [0900104060003] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
160	Permanent Vegetation Vegetative Buffer Strip [0900102030001] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Area/Activity exposed to stormwater (identify needed maintenance or a description of corrective actions in relevant task comment).					
180	Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
190	Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
200	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
210	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
220	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
230	Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

240	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
250	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
260	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
270	Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
280	Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
290	Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
300	Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
310	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
320	Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
330	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Non-Compliance				
350	Free of incidents of observed non-compliance not already identified above? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Additional Control Measures				
370	Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Labor

Labor	Assigned	Work Date	Reg Hrs	OT Hrs	Other Hrs
Kelkenny Bileen	8/2/2021 / 1				

Labor Report

Completed: _____

Report: _____

Kelkenny Bileen / Kelkenny Bileen 08/27/21
Signature / Name Date

Signature / Name Date

I confirm the information as recorded is true, accurate and complete.

CERTIFICATION STATEMENT

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

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




Print name and title: John Branch WFO-HE OM

Signature: John Branch Date: 8/27/2021

Maintenance Details

Requested: 7/1/2021 5:37:00 PM
Procedure: MSGP Routine Facility Inspection (EPC-CP-QP-2108 R0 Form 1)
Last PM: N/A
Project: Routine Facility Inspections July 2021 (P-MSGP-RI-5500)
Reason: 2021 July Inspections

Target: 7/31/2021
Priority/Type: Normal / Inspection
Department: Weapons Facilities Operations

 **MSGP Program**
 **RG253**
 **TA-09-0214 Metal Fabrication Shop**

Contact:
Phone:

Tasks

#	Description	Meas.	No	N/A	Yes
Weather Information					
20	Describe the weather at time of inspection and document the temperature (F°). <i>78°F</i>		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Within the Facility Boundary <i>Partly Cloudy, T-storms</i>					
40	Is the facility free of previously unidentified discharges from and/or pollutants that have occurred since the last inspection If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
50	If "No" has a CAR been previously initiated for this new discharge?		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
60	Is the facility free of discharge of pollutants at the time of inspection? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
70	Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Outfall Inspection (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comment)					
90	Monitored Outfall [079] Free of Evidence of Erosion? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
100	Monitored Outfall [079] Flow Dissipation Devices Operating Effectively? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
110	Monitored Outfall [079] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
120	Monitored Outfall [079] Free of any unauthorized non-stormwater discharges? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Control Measures (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comments).					
140	Erosion Control Blanket [0900101060004] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
150	Rip Rap [0900104060003] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
160	Permanent Vegetation Vegetative Buffer Strip [0900102030001] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Area/Activity exposed to stormwater (identify needed maintenance or a description of corrective actions in relevant task comment).					
180	Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
190	Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
200	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
210	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
220	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
230	Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

240	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
250	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
260	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
270	Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
280	Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
290	Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
300	Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
310	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
320	Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
330	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Non-Compliance

350	Free of incidents of observed non-compliance not already identified above? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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Additional Control Measures

370	Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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Labor

Labor	Assigned	Work Date	Reg Hrs	OT Hrs	Other Hrs
Kelkenny Bileen	7/1/2021 / 1				

Labor Report

Completed: 07/29/21

Report: Enviro Sox x w/ Metal Lox x install today, see attached map

Kelkenny Bileen	07/29/21		07/29/21
Signature / Name	Date	Signature / Name	Date

I confirm the information as recorded is true, accurate and complete.

CERTIFICATION STATEMENT

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

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

Print name and title: Thomas A. SENEROS WFO DEPUTY FOD

Signature: Date: 7/29/2021

ATTACHMENT 8: QUARTERLY VISUAL ASSESSMENTS

NMR050013 MSGP 2021
TA-09-0214 Metal Fabrication Shop

Quarterly Visual Assessment Forms,
First Quarter, July through September 2022

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

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

Los Alamos National Laboratory

TERRILL LEMKE Digitally signed by TERRILL
LEMKE (Affiliate)
(Affiliate) Date: 2022.11.18 11:17:47
-07'00'

Manager Signature

Facility Name	Sampling Station	Work Order #
TA-09-0214 Metal Fab. Shop	MSGP07901	MSGP-66069

Maintenance Details

Requested: 7/5/2022 5:41:00 PM
Procedure: MSGP Quarterly Visual Assessment (EPC-CP-QP-2105 R1 Form 1)
Last PM: 7/5/2022
Project: Visual Assessments 7/1/22 (P-MSGP-5591)
Reason: MSGP Quarterly Visual Assessment

Target: 9/30/2022
Priority/Type: Normal / Inspection
Department: Weapons Facilities Operations

 MSGP Program
 RG253
 TA-09-0214 Metal Fabrication Shop
 Monitored Outfall (079)
 **MSGP07901**

Contact:
Phone:

Tasks

#	Description	Meas.	No	N/A	Yes
The result of this VA applies to associated SIOs as defined in the SWPPP, where applicable.					
Sample information					
30	Document the monitoring period.	jul-sept	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
40	Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format).	7/4/22 12:45	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
50	Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format).	7/4/22 12:45	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
60	Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format).	7/5/22 11:58	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
70	Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line.	rain 1.49	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
80	Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Parameters					
110	Is sample colorless? If "Failed", describe.	brown	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
120	Is sample odorless? If "Failed", provide description (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas)	musty	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
130	Is sample clear? If "Failed", provide description (e.g., slightly cloudy, cloudy, opaque).	opaque	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
140	Is sample free of floating solids? If "Failed", describe if raw or waste material(s) in the comments of this line.	vegetation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
150	Is sample free of settled solids? If "Failed", provide description (e.g., fine, coarse).	coarse	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
160	Is sample free of suspended solids? If "Failed", provide description (e.g., fine, coarse).	coarse	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
170	Is sample foamless after gently shaking? If "Failed" describe foam color and location (e.g., 'on the surface' or 'in the sample').		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
180	Is sample devoid of an oil sheen? If "Failed", describe color and thickness (e.g. flecks, globs).		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
190	Is sample free of other obvious indicators of pollution? If "Failed", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Labor Report

Completed: 7/5/2022 11:58:00 AM

Report: Marwin Shendo



7/7/2022

Signature / Name

Date

Signature / Name

Date

I confirm the information as recorded is true, accurate and complete.

CERTIFICATION STATEMENT

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

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

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

Signature: (See signature on file) Date: _____

ATTACHMENT 9: CORRECTIVE ACTION DOCUMENTATION AND CERTIFICATION



MSGP-CAR REPORT

Corrective Action #	2155
FOD	WFO
MSGP Facility Description	TA-09-0214 Metal Fabrication Shop
Inspection Date	01-NOV-2022 12:33
Date EPC Notified	01-NOV-2022 17:33
Specific Location	Behind TA-09-0214, Metal Recycling Bin, approximately one-half quart of oil spilled out of a metal recycling bin in the process of being picked up.
Inspector Name	BILEEN KELKENNY
Person Identifying Condition	BILEEN KELKENNY
Report Status	A new corrective action
Finding Description	Unauthorized release or discharge
Finding Other Description	
Outfall	NA
Problem Description	An oil spill at TA-9-0214. It is estimated that approximately one-half quart of oil spilled out of a metal recycling bin in the process of being picked up.
AIM Level	NA
AIM Exception	NA
Inspection Type	Other (describe) :
Inspection Type Other Description	Call from Duty Officer.
Corrective Action Description	WFO DEP Isolated the spill, MSS Laborers applied absorbents to the impacted area, wiped down the affected area within recycling bin.
Was the problem identified at an outfall that has associated SIDPs?	
SIDP's Affected	
SIDP Action Taken	
Does Corrective Action require modification of SWPPP?	N
Corrective Action Initiate Date	01-NOV-2022 13:00
Corrective Action Complete Date	01-NOV-2022 15:00
Corrective Action Expected Completion Date	
Days to Take Action	0
Days Open	0
Status Description	
Date EPA Notified of Intent to Exceed 45 Days	
Date EPA Notified of Intent to Exceed 90 Days	
Baseline Date	



MSGP-CAR REPORT

Corrective Action #	2202
FOD	WFO
MSGP Facility Description	TA-09-0214 Metal Fabrication Shop
Inspection Date	20-DEC-2022 09:30
Date EPC Notified	20-DEC-2022 09:30
Specific Location	West side of TA-09-0214.
Inspector Name	WHEELER HOLLY L
Person Identifying Condition	WHEELER HOLLY L
Report Status	A new corrective action
Finding Description	Control measures inadequate to meet non-numeric effluent limitations
Finding Other Description	
Outfall	NA
Problem Description	Metal piping and some angle iron were not covered on the west side of TA-09-0214.
AIM Level	NA
AIM Exception	NA
Inspection Type	Routine facility inspection
Inspection Type Other Description	
Corrective Action Description	Cover the piping and angle iron on the west side of TA-09-0214 or move the material inside the shop. 122122, Piping and angle iron covered with tarps.
Was the problem identified at an outfall that has associated SIDPs?	N
SIDP's Affected	N/A
SIDP Action Taken	N/A
Does Corrective Action require modification of SWPPP?	N
Corrective Action Initiate Date	21-DEC-2022 10:07
Corrective Action Complete Date	21-DEC-2022 10:45
Corrective Action Expected Completion Date	03-JAN-2023 17:00
Days to Take Action	1
Days Open	1
Status Description	N/A
Date EPA Notified of Intent to Exceed 45 Days	
Date EPA Notified of Intent to Exceed 90 Days	
Baseline Date	

CERTIFICATION FOR CORRECTIVE ACTIONS

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

Printed Name: Derek Clark Title: WFO FOD

Signature:  Date: 1/31/2023

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.)
2021	No maintenance required.		
2022	No maintenance required.		

ATTACHMENT 11: TRAINING DOCUMENTATION

Information on employees receiving training is available upon request.

AGENDA
FOR
TA-09-0214 METAL FABRICATION SHOP 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
 - i. 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 (TA-09-0214) falls under Section 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
 - i. Quarterly monitoring for zinc, total recoverable Aluminum and Nitrate, Nitrate as Nitrogen.
 - ii. Annual monitoring for total recoverable Aluminum, dissolved Copper, adjusted gross Alpha, and PCBs.
 - 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 Al, Cu, Zn, PCBs, Adjusted Gross Alpha or Nitrate-Nitrate as Nitrogen
 - e. Training requirement
 - i. (You all may be wondering why you are here) 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, fine debris from welding, cutting, grinding, cutting oils, etc.) and conducting activities on an industrial site (TA-9-0214 Metal Fabrication Shop)
- 4. What does the SWPPP do?
 - a. Identifies a Pollution Prevention Team
 - i. This team consists of Ricardo Gomez, Kelkenny Bileen (DEP) 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 (Ask trainees what they think these sources are)
 - i. Vehicle or equipment parking area (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. Covered roll-off bin and covered dumpster
 - ii. Tarps, or in the future, transportainers
 - iii. Gravel mulch
 - iv. MetalLoxx wattles
 - v. Erosion control blanket
 - vi. Rip Rap
 - vii. Vegetation buffer strip
 - viii. Routine maintenance like sweeping of sediment loaded areas or where metal fines may accumulate after fabrication
 - 1. Review SWPPP map and walk down controls at the site. Discuss their purpose and when they should be repaired or replaced.
 - 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 Shop in an orderly condition. (Ask Trainees what they would do if they noticed waste, trash, or debris outside at the Metals Fabrication Shop?)
 - b. Pick up garbage, debris, and floatables when observed on-site.
 - c. Check trucks, loaders, forklifts and other heavy equipment for leaks prior to using them.
 - d. 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. Fabricated products, waste material, or by-products used or created by the facility;
 - c. Work within material handling sites;
 - d. Locations where trash and debris is stored;
 - e. Metal for recycling bins;
 - f. Shipping and receiving areas;
 - g. Locations of material handling equipment;
 - h. Fabrication areas;
7. How can you properly manage industrial materials?
 - a. Keep raw metal (steel) and fabricated product inside a building or covered.
 - i. Potential to use 10 by 10 foot weighted tarps.
 - 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. (Ask Trainees why they should not place metal fines directly in the metal for recycle roll-off 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 they noticed the truck, forklift, front-end loader or potholing machine was leaking).
 1. Call the EPC-CP spills pager at 505-644-7722.
 2. If trained, implement the requirements of WFO-IWD-00016, Spill Response and Clean Up in Weapons Facilities Operations Areas *immediately*.
 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 by calling your Waste Management Coordinator 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 Kelkenny Bileen (699-0440 or kbileen@lanl.gov), the Deployed Environmental Professional for this shop, if you have any questions about environmental requirements.
 - b. Contact Holly Wheeler (667-1312) or hbenson@lanl.gov for specific questions about the MSGP.

ATTACHMENT 12: MSGP (OR ACTIVE URL)

A copy of the 2021 MSGP is kept on file with the SWPPP hard copy.

The active URL for the permit is:

<https://www.epa.gov/npdes/stormwater-discharges-industrial-activities-epas-2021-msgp>

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

LA-UR-22-20556

Approved for public release; distribution is unlimited.

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

Author(s): Thompson, Brent Eugene
Hathcock, Charles Dean
Sanchez, Audrey Anna

Intended for: Environmental Regulatory Document
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LA-UR-22-20556
January 2022
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distribution is unlimited.*

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



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

Prepared by: Environmental Protection and Compliance Division
Resources Management Team
Los Alamos National Laboratory
An Affirmative Action/Equal Opportunity Employer

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Cover photo: Mexican Spotted Owls at Los Alamos National Laboratory



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CONTENTS

I. THREATENED AND ENDANGERED SPECIES HABITAT MANAGEMENT PLAN GENERAL OVERVIEW	1
1.0 Introduction	1
2.0 Role of Site Plans in the HMP.....	1
3.0 Description of Areas of Environmental Interest.....	1
3.1 Definition and Role of Developed Areas in AEI Management	2
3.2 General Description of Buffer Areas and Allowable Buffer Area Development	2
3.3 Emergency Actions.....	2
4.0 Implementation of Site Plans	3
4.1 Roles and Responsibilities	3
4.2 Activities that Do Not Meet Site Plan Guidelines	4
4.3 Dissemination of Information.....	4
5.0 Changes in the HMP since Implementation	4
6.0 Data Management	5
II. AREA OF ENVIRONMENTAL INTEREST SITE PLAN FOR THE MEXICAN SPOTTED OWL .	6
1.0 Species Description—Mexican Spotted Owl.....	6
1.1 Status	6
1.2 General Biology.....	6
1.3 Threats	7
2.0 Impact of Human Activities	7
2.1 Introduction	7
2.2 Impacts on Habitat Quality.....	7
3.0 AEI General Description for Mexican Spotted Owl	11
3.1 Method for Identifying a Mexican Spotted Owl AEI	11
3.2 Location and Number of Mexican Spotted Owl AEIs.....	12
4.0 AEI Management	12
4.1 Overview	12
4.2 Definition and Role of Occupancy in AEI Management.....	12
4.3 Introduction to AEI Management Guidelines.....	13
4.4 Definition of and Restrictions on Habitat Alterations	13
4.5 Definition of and Restrictions on Disturbance Activities	15
4.6 Protective Measures.....	17
5.0 Allowable Habitat Alteration in the Buffer Areas.....	18
III. AREA OF ENVIRONMENTAL INTEREST SITE PLAN FOR THE SOUTHWESTERN WILLOW FLYCATCHER.....	20
1.0 Species Description—Southwestern Willow Flycatcher.....	20
1.1 Status	20
1.2 General Biology.....	20
1.3 Threats	21
2.0 Impact of Human Activities	21
2.1 Introduction	21
2.2 Impacts on Habitat Quality.....	21
3.0 AEI General Description for the Southwestern Willow Flycatcher	23
3.1 Method for Identifying the Southwestern Willow Flycatcher AEI.....	23
3.2 Location of the Southwestern Willow Flycatcher AEI	23
4.0 AEI Management	23
4.1 Overview	23

Contents

4.2	Definition and Role of Occupancy in AEI Management	23
4.3	Introduction to AEI Management Guidelines	24
4.4	Definition of and Restrictions on Habitat Alterations	24
4.5	Definition of and Restrictions on Disturbance Activities	25
4.6	Protective Measures	27
5.0	Southwestern Willow Flycatcher AEI Description	27
5.1	Pajarito Canyon Southwestern Willow Flycatcher AEI	27
IV.	AREA OF ENVIRONMENTAL INTEREST SITE PLAN FOR THE JEMEZ MOUNTAINS	
	SALAMANDER	29
1.0	Species Description—Jemez Mountains Salamander	29
1.1	Status	29
1.2	General Biology	29
1.3	Threats	29
2.0	Impact of Human Activities	30
2.1	Introduction	30
2.2	Impacts on Habitat Quality	30
2.3	Impacts on Individual Salamanders	30
3.0	AEI General Description for the Jemez Mountains Salamander	31
3.1	Method for Identifying a Jemez Mountains Salamander AEI	31
3.2	Location and Number of Jemez Mountains Salamander AEIs	32
4.0	AEI Management	32
4.1	Overview	32
4.2	Definition and Role of Occupancy in AEI Management	33
4.3	Definition and Role of Developed Areas in AEI Management	33
4.4	General Description of Core and Buffer Areas and Allowable Area Development	33
4.5	Emergency Actions	33
4.6	Introduction to AEI Management Guidelines	33
4.7	Definition of and Restrictions on Habitat Alterations	34
V.	ACRONYMS AND ABBREVIATIONS	V-1
VI.	REFERENCES CITED	VI-2
	Appendix A: Supplemental Information	A-1

Figures

Figure I-1. Process flowchart for determining site plan requirements	3
Figure A-1. Most recent map of all AEIs at LANL	A-2

Tables

Table II-1. Restrictions on Activities in Undeveloped Occupied Mexican Spotted Owl AEIs	17
Table III-1. Restrictions on Activities in Undeveloped Occupied	27
Table A-1. Percentage of Each Food Type Found in Mexican Spotted Owl Food Remains at LANL	A-1
Table A-2. Preliminary Light Measurements (in fc) for the Mexican Spotted Owl Site Plan	A-1



I. THREATENED AND ENDANGERED SPECIES HABITAT MANAGEMENT PLAN GENERAL OVERVIEW

1.0 Introduction

The Los Alamos National Laboratory (LANL) Threatened and Endangered Species Habitat Management Plan (HMP) fulfills a commitment made to the U.S. Department of Energy (DOE) in the “Final Environmental Impact Statement for the Dual-Axis Radiographic Hydrodynamic Test Facility Mitigation Action Plan” (DOE 1996). The HMP received concurrence from the U.S. Fish and Wildlife Service (USFWS) in 1999 (USFWS consultation numbers 2-22-98-I-336 and 2-22-95-I-108). This 2022 update retains the management guidelines from the 1999 HMP for listed species and updates some descriptive information.

2.0 Role of Site Plans in the HMP

The purpose of the HMP is to provide a management strategy for Endangered Species Act (ESA) compliance through the protection of threatened and endangered species and their habitats on LANL property. The HMP consists of site plans for federally listed threatened or endangered species that have a moderate or high probability of occurring at LANL. The following federally listed threatened or endangered species currently have site plans at LANL: Mexican Spotted Owl (*Strix occidentalis lucida*), Southwestern Willow Flycatcher (*Empidonax traillii extimus*), and Jemez Mountains Salamander (*Plethodon neomexicanus*). Site plans provide guidance to ensure that LANL operations do not adversely affect threatened or endangered species or their habitats.

The Black-footed Ferret (*Mustela nigripes*) is federally listed as endangered; however, no sightings of Black-footed Ferrets have been reported in Los Alamos County for more than 70 years. In addition, no large prairie dog towns—prime habitat for Black-footed Ferrets—have been observed at LANL; therefore, there is no site plan for this species.

The New Mexico Meadow Jumping Mouse (*Zapus hudsonius luteus*) and western distinct population segment of the Yellow-billed Cuckoo (*Coccyzus americanus*) do not require a site plan because they do not have breeding habitat on LANL property. In Keller (2015), it was concluded that if any LANL work activities—onsite or offsite—might affect habitat for these two species, those activities would be reviewed for impacts.

3.0 Description of Areas of Environmental Interest

Suitable habitats for federally listed threatened and endangered species have been designated as areas of environmental interest (AEIs), which are geographical units at LANL that are managed for the protection of federally listed species and consist of core habitat areas and buffer areas. The purpose of the core habitat is to protect areas essential for the existence of the specific threatened or endangered species. This includes the appropriate habitat type for breeding, prey availability, and micro-climate conditions. The purpose of buffer areas is to protect core areas from undue disturbance and habitat degradation.

Site plans identify restrictions on activities within the AEIs. The USFWS reviewed allowable activities and provided concurrence that these activities are not likely to adversely affect federally listed species.

Activities discussed in site plans include day-to-day activities that cause disturbance (hereafter referred to as “disturbance activities”), such as access into an AEI, and long-term impacts, such as habitat alteration.

3.1 *Definition and Role of Developed Areas in AEI Management*

Developed areas include all building structures, paved roads, improved gravel roads, paved and unpaved parking lots, and firing sites. The extent of developed areas in each AEI was determined using two methods. First, LANL geographic information system (GIS) analysts placed a 15-meter (m; 49-foot [ft]) border around all buildings and parking lots. For paved and improved gravel roads, the developed area was defined as the area to a roadside fence if one exists within 9 m (30 ft) of the road or 5 m (15 ft) on each side of the road if there is no fence within 9 m (30 ft). If an area of highly fragmented habitat was enclosed by roads, a security fence, or connected buildings, that area was also classified as developed. Developed areas at firing sites were defined as a circle with a 91-m (300-ft) radius from the most centrally located firing pad. Second, LANL GIS analysts overlaid scanned orthophotos onto a map of the Los Alamos area and digitized all areas that appeared developed. These two information sources were overlaid and combined so that areas classified as developed by either method were considered developed in final maps and analyses. Some areas were confirmed by ground surveys.

Developed areas occur in the core and/or buffer of all AEIs; however, developed areas do not constitute suitable habitat for federally listed species. Current ongoing activities in developed areas constitute a baseline condition for the AEIs and are not restricted. New activities, including further development within already existing developed areas, are not restricted unless they impact undeveloped portions of an AEI core. For example, if light or noise from a new office building in a developed area were to raise levels in an undeveloped core area, those light and noise levels would be subject to the guidelines on disturbance or habitat alterations.

3.2 *General Description of Buffer Areas and Allowable Buffer Area Development*

The purpose of buffer areas is to protect core areas from undue disturbance or habitat degradation. The 1999 levels of development in buffer and core areas represent baseline conditions for this HMP. No further development is allowed in the core area under the guidelines of this HMP. A limited amount of development may be allowed in buffer areas. Each species’ site plan details the allowable levels. Under the guidelines of this HMP, individual development projects are limited to 2 hectares (ha; 5 acre [ac]) in size, including a 15-m (49-ft) developed-area border around structures and a 5-m (15-ft) developed-area border around paved and improved gravel roads. Projects greater than 2 ha (5 ac) in size require individual review for ESA compliance (see exceptions for fuels management activities and utility corridor maintenance).

3.3 *Emergency Actions*

Managers may activate emergency actions if safety and/or property is immediately threatened by something occurring within an AEI (e.g., wildfire, water line breakage). Contact a LANL biologist (<https://int.lanl.gov/environment/bio/index.shtml>), the Environmental Stewardship Group (505-665-8855), or the DOE/National Nuclear Security Administration (NNSA) Los Alamos Field Office (505-667-7014) as soon as possible. If the emergency occurs outside of regular business hours, contact the Emergency Operations Support Center (505-667-2400); this office will then communicate with the appropriate LANL and DOE/NNSA Field Office personnel.

4.0 Implementation of Site Plans

4.1 Roles and Responsibilities

LANL's facility managers and operational staff are responsible for ensuring that activities are reviewed for compliance with all applicable site plans. Figure I-1 illustrates the process for utilizing site plans. If activities follow approved Site Plan guidelines, there is no requirement for additional ESA regulatory compliance; however, if proposed activities fall outside of the requirements of the Site Plan(s), then the project must fund a biological assessment for their activity.

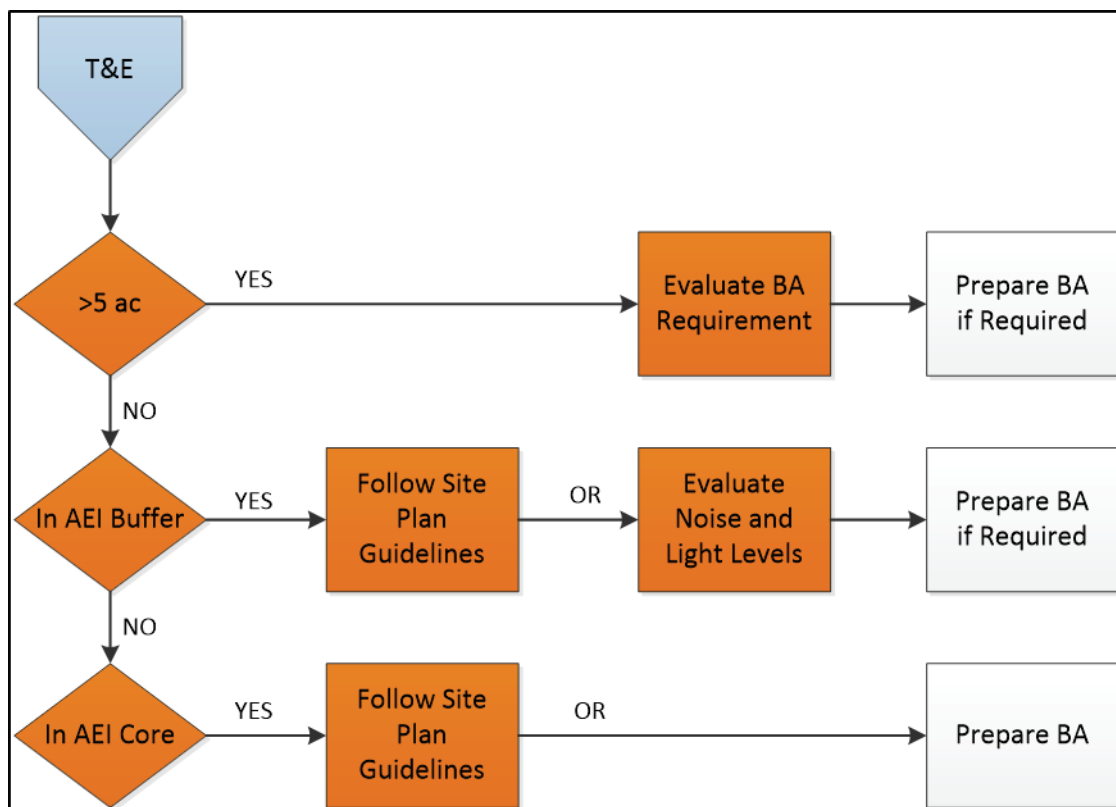


Figure I-1. Process flowchart for determining site plan requirements

If an activity or project occurs outside of all LANL AEIs and will not impact habitat within an AEI, it does not have to be reviewed for ESA compliance unless it is a large project in an undeveloped area that could have impacts on nearby habitat. Projects that are larger than 2 ha (5 ac) or cost more than \$5 million require an individual ESA compliance review even if they are not located within an AEI.

LANL's facility managers are responsible for determining if operations within their geographic and/or programmatic areas of responsibility comply with the guidelines in these site plans. Submission of a project into the integrated review tool for a new or modified project is required under *Environmental Management System*, System Description (SD) 400 (LANL 2021) and allows managers to identify the requirements within their project areas. Deployed environmental professionals and core LANL biologists are available to support facility managers. If activities follow site plan guidelines, they do not require any additional ESA regulatory compliance action; however, NEPA, cultural resources, wetlands, or other

regulatory compliance actions are not addressed in site plans, and additional compliance actions may be required for these actions. It is the responsibility of the project leader or facility management staff to ensure that all requirements are satisfied. If you have questions, contact biological, cultural, NEPA, or other environmental subject matter experts.

A single facility may have one or more AEIs within its boundary, and the AEIs may be for different species. Some AEIs overlap. In areas where overlap occurs, project managers must follow the guidelines for AEIs of all involved species.

4.2 Activities that Do Not Meet Site Plan Guidelines

If a project reviewer determines that an activity or project cannot meet the guidelines in applicable site plans, LANL biologists evaluate that activity individually for compliance with the ESA. Results of the evaluation of potential impacts allow LANL biologists to make recommendations to the DOE/NNSA Field Office Biological Resources Program Manager regarding the need for USFWS consultation. An evaluation may result in a DOE/NNSA Field Office

- determination that there is no effect and the activity may proceed,
- suggestion for modifications of the action to avoid adverse effects so that it may proceed, or
- decision to prepare a biological assessment for the activity and submit it to the USFWS for concurrence.

Fieldwork and preparation of a biological assessment can take several months, with an additional 2 to 12 months for DOE/NNSA Field Office review and then final USFWS concurrence.

4.3 Dissemination of Information

Habitat locations of threatened and endangered species are not considered sensitive; however, it is in the best interest of threatened and endangered species to restrict specific knowledge about their locations.

5.0 Changes in the HMP since Implementation

The HMP received concurrence from USFWS and was first implemented in 1999. Since that time, both the Peregrine Falcon (*Falco peregrinus*) and the Bald Eagle (*Haliaeetus leucocephalus*) have been delisted. Site plans for those species have been removed from LANL's HMP. Both species are protected at LANL under the Migratory Bird Treaty Act, and the Bald Eagle is also protected under the Bald and Golden Eagle Protection Act.

In 2005, the USFWS concurred with DOE's proposal for updated Mexican Spotted Owl habitat boundaries based on a revised analysis of Mexican Spotted Owl habitat quality within DOE property around LANL (USFWS consultation number 22420-2006-I-0010).

In 2012, the USFWS concurred with DOE's proposal to modify the habitat boundaries for the Los Alamos Canyon Mexican Spotted Owl AEI due to changes from the fire response activities after the Las Conchas wildfire (USFWS consultation number 02ENNM00-2012-IE-0088).

In 2013, the USFWS concurred with the DOE's new site plan for the Jemez Mountains Salamander and its addition to LANL's HMP (USFWS consultation number 02ENNM00-2014-I-0014).

In 2015, the USFWS concurred with the DOE's addition of the New Mexico Meadow Jumping Mouse and Yellow-billed Cuckoo to LANL's HMP (USFWS consultation number 02ENNM00-2015-I-0538).

In 2017, the USFWS concurred with DOE's proposal to modify the habitat boundaries for the lower section of Water Canyon Mexican Spotted Owl AEI due to habitat degradation that resulted from long-term drought and fire effects (USFWS consultation number 02ENNM00-2017-I-0255).

In 2022, the HMP was revised for formatting and updated language and to revise Section 5.0 in the Mexican Spotted Owl site plan. This effort was a required mitigation in a recent consultation (USFWS consultation number 02ENNM00-2020-I-1412).

6.0 Data Management

The data used in the implementation of the HMP are stored in a geodatabase at LANL. The current map of all of the AEIs at LANL is shown in Figure A-1 in the appendix.

II. AREA OF ENVIRONMENTAL INTEREST SITE PLAN FOR THE MEXICAN SPOTTED OWL

1.0 Species Description—Mexican Spotted Owl

1.1 Status

In 1993, the USFWS determined the Mexican Spotted Owl to be a threatened species under the authority of the ESA, as amended (58 Federal Register [FR] 14248). In 1995, the USFWS released its final recovery plan for the owl (USFWS 1995), which was revised in 2012 (USFWS 2012). The USFWS most recently designated critical habitat for Mexican Spotted Owl in 2004 (69 FR 53182).

1.2 General Biology

The Mexican Spotted Owl is found in northern Arizona, southeastern Utah, and southwestern Colorado south through New Mexico, west Texas, and into Mexico. It is the only subspecies of Spotted Owl recognized in New Mexico (USFWS 1995).

The Mexican Spotted Owl generally inhabits mixed conifer and ponderosa pine- (Pinus ponderosa; Lawson & C. Lawson) Gambel oak (Quercus gambelli; Nutt.) forests in mountains and canyons. High canopy closure, high stand diversity, multilayered canopy resulting from an uneven-aged stand, large mature trees, downed logs, snags, and stand decadence as indicated by the presence of mistletoe are characteristics of Mexican Spotted Owl habitat. Some owls have been found in second-growth forests (i.e., younger forests that have been logged); however, these areas were found to contain characteristics typical of old-growth forests. Mexican Spotted Owls in the Jemez Mountains prefer cliff faces in canyons for their nest sites (Johnson and Johnson 1985). The recovery plan for the Mexican Spotted Owl recommends that mixed conifer and pine-oak woodland types on slopes greater than 40 percent be protected for the conservation of this owl.

A mated pair of adult Spotted Owls might use the same home range and general nesting areas throughout their lives. A pair of owls requires approximately 800 ha (1,976 ac) of suitable nesting and foraging habitat to ensure reproductive success. Incubation is carried out by the female. The incubation period is approximately 30 days, and most eggs hatch by the end of May. Most owlets fledge in June, 34 to 36 days after hatching (USFWS 1995). The owlets are “semi-independent” by late August or early September, although juvenile begging calls have been heard as late as September 30. Young are fully independent by early October. The non-breeding season runs from September 1 through February 28. Although seasonal movements vary among owls, most adults remain within their summer home ranges throughout the year.

The diet of Mexican Spotted Owls who nest in canyons consists primarily of woodrats (*Neotoma spp.*) and deer mice (*Peromyscus spp.*), with fewer numbers of rabbits, birds, reptiles, and arthropods (Willey 2013). The relative abundance of prey types in Mexican Spotted Owl pellets collected at LANL is listed in Table A-1 in the appendix. Ganey and Balda (1994) found that core areas of individuals (i.e., where owls spent 60 percent of their time) averaged 134 ha (331 ac), and core areas for pairs averaged 160 ha (395 ac).

1.3 Threats

The Mexican Spotted Owl was listed as threatened because of destruction and modification of habitat caused by timber harvest, wildfires, increased predation on owls associated with habitat fragmentation, and a lack of adequate protective regulations.

2.0 Impact of Human Activities

2.1 Introduction

The primary threats to Mexican Spotted Owls on LANL property are (1) impacts to habitat quality from LANL operations and (2) disturbance of nesting owls. This section provides a review and summary of scientific knowledge of the effects of various types of human activities on the Mexican Spotted Owl and provides an overview of the current levels of activities at LANL.

2.2 Impacts on Habitat Quality

2.2.1 Development

The type of habitat used by Mexican Spotted Owls—late seral stage forests with large trees—is usually not found in large quantities near developed areas or near areas that have experienced recent agricultural or forest product extraction land uses; therefore, Mexican Spotted Owls generally are not found near developments. Whether it is the development or a lack of suitable habitat that discourages colonization of these areas by Mexican Spotted Owls is unknown.

Areas of LANL vary from remote, undeveloped areas to heavily developed and/or industrialized facilities. Most LANL facilities are situated atop mesas, primarily in the northern and western portion of the DOE property. LANL is bounded by developed residential, industrial, and retail areas along its northern boundary (the town of Los Alamos) and by residential and retail development along a portion of its eastern boundary (the town of White Rock). Three major paved roads traverse LANL from northeast to southwest. Sandia, Pajarito, and Los Alamos canyons have paved roads within AEIs, and several AEIs have dirt roads along at least a portion of the canyon bottom. AEIs that contain paved or dirt roads in the canyon bottoms have not been occupied at LANL (Hathcock et al. 2010).

2.2.2 Ecological Risk

No specific information exists on the impact of chemicals on the Mexican Spotted Owl, although experience with other raptor species suggests that exposure to polychlorinated biphenyls (PCBs), dichloro-diphenyl-trichloroethane (DDT) and its derivatives, and other organophosphate or organochlorine pesticides would probably be harmful. Exposure to other chemicals could also be harmful (Cain 1988).

Between 1997 and 2009, LANL subject matter experts completed three ecological risk assessments that included the Mexican Spotted Owl. The ecological risk assessment process involves using computer modeling to assess potential effects to animals from chemicals of potential concern that have been detected in the environment. All of the following ecological risk assessments concluded that, on average, no appreciable impact to Mexican Spotted Owls is expected from chemicals of potential concern (Gallegos et al. 1997; Gonzales et al. 2004; Gonzales et al. 2009).

2.2.3 Disturbance

Pedestrians and Vehicles

Based on work with other raptors, LANL biologists assume that Mexican Spotted Owls would likely be disturbed by the approach of either pedestrians or vehicles. At an equal distance, pedestrians are frequently more disturbing to raptors than vehicles (Grubb and King 1991). Brown and Stevens (1997) reported that, during surveys in Grand Canyon National Park, 22 times more Bald Eagles were found in canyon reaches with low human recreational use compared with reaches with moderate-to-high human recreational use. Human activity 100 m (328 ft) from Bald Eagle nests in Alaska caused clear and consistent changes in behavior of breeding eagles (Steidl and Anthony 2000).

Swarthout and Steidl (2001) found that both juvenile and adult roosting Mexican Spotted Owls were unlikely to alter their behavior in the presence of a single hiker at distances greater than 55 m (180 ft). Swarthout and Steidl (2003) concluded that cumulative effects of high levels of short-duration recreational hiking near Mexican Spotted Owl nests could be detrimental.

Many canyon bottoms and mesa tops at LANL have dirt roads traversing them. Most of these roads are gated; however, these roads are accessible to LANL employees, and some of them are accessible to the public on foot or by bike. LANL biologists found that AEIs are occupied less often if there is recreational access into a canyon (Hathcock et al. 2010).

Aircraft

Ground-based disturbances appear to impact raptor reproductive success more than aerial disturbances (Grubb and King 1991). Grubb and Bowerman (1997) concluded that an exclusion of aircraft within 600 m (1,968 ft) of Bald Eagle nest sites would limit Bald Eagle response frequency to 19 percent.

Delaney et al. (1999) found that, for Mexican Spotted Owls, chainsaws consistently elicited higher response rates than helicopters at similar distances. Owl flush rates did not differ between nesting and non-nesting seasons. No owls flushed when noise stimuli (helicopter or chainsaws) were at distances greater than 105 m (344 ft). Distance was generally a better predictor of owl response to helicopter overflights than sound level.

LANL is restricted airspace, and planes infrequently fly less than 609 m (2,000 ft) above ground level. The County of Los Alamos operates an airport along the northern edge of LANL. The airport is located on the southern rim of Pueblo Canyon. Most flights approach and depart to the east of the airport, over the Rio Grande.

Explosives

No specific information is currently available on the reaction of Mexican Spotted Owls to explosives detonation. Explosive blasts set off 120 to 140 m (393 to 459 ft) from active Prairie Falcon (*Falco mexicanus*) nests caused perched Prairie Falcons to flush from perches 79 percent of the time and, in 26 percent of the cases, caused incubating Prairie Falcons to flush from nests. Measured sound levels at aerie entrances during blasts ranged from 129 to 141 decibels (dB) (Holthuijzen et al. 1990). Explosives blasting for dam construction 560 to 1,000 m (1,837 to 3,280 ft) from active Prairie Falcon nests caused a change in behavior 26 percent of the time, and birds flushed in 17 percent of all cases. No incubating birds flushed (Holthuijzen et al. 1990). Brown et al. (1999) found little activity change in roosting or

nesting Bald Eagles and no population-level impacts from weapons detonations at the Aberdeen Proving Ground. Holthuijzen et al. (1990) found that a 167-gram (g; 5.89-ounce [oz]) charge of Kinestik produced noise levels between 138 and 141 dB at 100 m (328 ft) and that a 500-g (17.6-oz) charge of trinitrotoluene(2,4,6-) (TNT) produced noise levels between 144 and 146 dB at 100 m (328 ft). A 20-kilogram (kg; 44-pound [lb]) charge of TNT produced noise levels that measured 163 dB at 100 m (328 ft) (Paakkonen 1991).

Measurements of noise levels during explosives testing were conducted at three locations at LANL using quantities of high explosives ranging from 4.5 to 67.5 kg (10 to 148 lb) of TNT during six shots. Noise levels increased during the test from a background level of 31 A-weighted decibels [dB(A)] to a range between 64 and 71 dB(A) during shots at a distance of 1.8 kilometers (km; 1.1 miles [mi]). At a distance of 4.3 km (2.67 mi), noise levels rose from a background range of 35 to 64 dB(A) to a range of 60 to 63 dB(A) (Vigil 1995). At a distance of 6.7 km (4.16 mi), noise levels rose from a background range of 38 to 51 dB(A) to a range of 60 to 71 dB(A) (Burns 1995). LANL biologists estimated that the noise from a shot at the Dual-Axis Radiographic Hydrodynamic Test (DARHT) Facility would be 150 dB(A) at the source and 80 dB(A) at 400 m (1,312 ft) (Keller and Risberg 1995). LANL biologists found that Mexican Spotted Owl AEIs located within the explosives-testing buffer area were occupied more frequently than AEIs in other locations (Hathcock et al. 2010)—likely due to the strict access control in explosives areas that limits human activity and development in the canyon bottoms.

Other Sources of Noise

Major noise-producing activities at LANL include automobile and truck traffic and noise associated with office buildings, construction activities, a live-fire range, and explosives testing. Noise is also associated with aircraft traffic at the Los Alamos County Airport. Construction and maintenance activities involved with operations at LANL are fairly common. In addition, implementation of the 2016 Compliance Order on Consent issued by the New Mexico Environmental Department has resulted in an increased frequency of drilling groundwater-monitoring wells in protected habitat at LANL. Also, forest fuels management operations use chainsaws, chippers, and other noise-generating equipment. The 2010 National Pollutant Discharge Elimination System Individual Permit (EPA 2010) issued by the Environmental Protection Agency requires LANL to comply with minimizing pollutants in storm water discharges from associated historical industrial activities. To do so, site-specific stormwater and sediment control features such as berms, rock check dams, and other best management practices (BMPs) are installed at various sites around LANL. These BMPs—and the associated monitoring required—often occur in canyon bottoms in protected habitat. LANL biologists conducted a study of noise levels in canyons and found that the primary sources of noise that exceed 55 dB(A) were cars and trucks. Readings taken near flowing water were up to 11 dB(A) higher than readings taken elsewhere. The average dB(A) in canyons near paved roads ranged from 41 to 62, with maximum values ranging from 62 to 74. Away from paved roads 1.6 km (1 mi) or more, average dB(A) in canyons ranged from 37 to 50, with all but one average below 45. Maximum dB(A) away from paved roads ranged from 38 to 76; 76 dB(A) was measured during a thunder clap (Huchton et al. 1997).

In December 1997, LANL biologists conducted noise measurements at the Los Alamos County Airport and in Bayo and Pueblo canyons, including the Los Alamos County Sewage Treatment Facility. Sound levels near the airport runway during the maximum use time (6:30 to 7:30 a.m.) had background values averaging 54 dB(A). Noise during plane arrivals ranged from 47 to 63 dB(A). No measurements were collected during plane take-off. Sound measurements conducted in the bottoms of Pueblo and Bayo canyons ranged from 37 to 40 dB(A) in most areas of the canyon. At the sewage treatment facility

parking lot during a working day, the average dB(A) during a 3-minute period was 46 (range 45 to 49). At the intersection of the road going into Pueblo Canyon with State Road 502, the average dB(A) during a 3-minute period was 60 (range 41 to 70).

LANL biologists conducted sound measurements at successive distances from an industrial area near a canyon rim, into the canyon, and to the opposite rim using a C-weighted decibel (dB(C)) scale (Keller and Foxx 1997). Measurements of noise levels using the dB(C) scale are greater than if measured using the dB(A) scale. The average background noise on the mesa was 65.8 dB(C) [with a range of 43 to 81 dB(C)]. The average background noise in the canyon bottom was 62.3 dB(C) [with a range of 54 to 78 dB(C)]. The average background noise at the bottom of the north-facing slope was 53.8 dB(C) [with a range of 48 to 64 dB(C)]. Measurements were taken mid-day.

LANL biologists measured sound levels from various pieces of construction equipment used at LANL project sites over 5-minute intervals at distances of 6 to 31 m (20 to 100 ft) (Knight and Vrooman 1999). Average values ranged from 58.5 to 80.9 dB(A). Peak values ranged from 75.7 to 155.4 dB(A). Additional data were collected by other LANL operators on specific pieces of construction equipment and on the Security Computer Complex construction site fence perimeter at Technical Area 3 before and during construction (Knight and Vrooman 1999). The average noise level before construction began was 56.6 dB(A), and the average during construction was 82.1 dB(A).

LANL biologists conducted a series of sound measurements at LANL to investigate background noise levels around AEIs (Vrooman et al. 2000). Background noise levels were significantly higher in daytime than in nighttime. AEIs with greater than a 10 percent developed area in their buffers had significantly higher levels of background noise than undeveloped AEIs. The mean background sound level was 51.3 dB(A) in developed AEIs and 39.6 dB(A) in undeveloped AEIs. The LANL biological resources project review process uses the individual AEI background measurements from Vrooman et al. (2000) to screen project activities for increases more than 6 dB(A) above background.

LANL biologists took sound-level measurements of heavy equipment use associated with concrete recycling on Sigma Mesa at LANL in 2004 (Hansen 2004). At this location, background noise levels at two different locations were 55.2 and 58.8 dB(A). Operation of a dump truck hauling and dumping concrete increased noise levels above background by a mean of 22.7 dB(A) at 30 m (98 ft) and 2.4 dB(A) at 80 m (262 ft). Additional sound-level measurements were taken in the same general area on Sigma Mesa in 2005 as part of a biological assessment for the operation of an asphalt batch plant (Hansen 2005). Measurements were taken on the north rim of Mortandad Canyon (south of the asphalt batch plant at distances of approximately 30 to 122 m (100 to 400 ft), at the bottom of Mortandad Canyon approximately 183 to 244 m (600 to 800 ft) from the asphalt batch plant, and on the south rim of Mortandad Canyon approximately 305 m (1,000 ft) from the asphalt batch plant. Background noise levels at the various locations ranged from 41.1 to 48.7 dB(A). The only locations with increases greater than 3 dB(A) during operation of the asphalt batch plant were the locations on the north rim of Mortandad Canyon, within 122 m (400 ft) of the asphalt batch plant. Noise from the operation of the asphalt batch plant was not detected in the bottom of Mortandad Canyon or on the south rim.

LANL biologists took sound-level measurements around the LANL TA-3, Building 1076 with the heating, ventilation, and air conditioning (HVAC) system on and with it off (Hansen 2009). The area to the north of the TA-3, Building 1076 is developed; the area to the south is not. Background noise levels north of the facility ranged from 53.6 to 57.6 dB(A). Background noise levels south of the facility ranged

from 41.6 to 49.7 dB(A). Noise from the HVAC system was detected at 25 m (82 ft) from the facility on both sides but was not detected at 81 m (266 ft) on the north side or at 107 m (351 ft) on the south side.

In 2020, LANL biologists conducted noise-level assessments around TA-35 to support a biological assessment (LANL 2020). Noise levels were measured along core habitat for the Mexican Spotted Owl in the Sandia-Mortandad AEI in TA-35. The average across all locations and sampling time intervals in this study was 47.47 dB(A), which was 5.27 dB(A) lower than the Vrooman et al. (2000) average.

Overall, these studies appear to show that areas adjacent to or within developed areas or paved roads are likely to have daytime average background noise levels between 45 and 63 dB(A). Less-disturbed areas are likely to have average background noise levels between 37 and 50 dB(A).

Artificially Produced Light

No information is available on the effects of artificially produced light on Mexican Spotted Owls. Under the Los Alamos County Code, commercial site development plans are reviewed to ensure that lighting serves the intended use of the site while minimizing adverse impacts to adjacent residential property (Section 16-276). Section 16-276 of the County Code includes light-source measurement limitations by zoning district. The code allows offsite light to be 0.5 foot-candles (fc) in residential areas. By comparison, full moonlight measures 0.1 fc, and a crescent moon was measured at 0.01 fc. Table A-2 in the appendix presents preliminary light measurements in foot-candles.

Preliminary surveys were conducted for light levels within Los Alamos Canyon at the Omega Reactor (Keller and Foxx 1997). The Omega Reactor was brightly lit for purposes of security; therefore, total light intensity was greater than the average street lighting. Measurements were conducted at a light pole in an open parking lot at the reactor as the source. Trees did not obscure the area. Using the relationship of light intensity reducing as a square of the distance, calculations using the field data indicated that at 30 m (98 ft) from the source, the light levels would be equivalent or nearly equivalent to full moonlight.

3.0 AEI General Description for Mexican Spotted Owl

An AEI consists of two areas: a core and a buffer. The core of the habitat is defined as suitable canyon habitat from rim to rim and 100 m (328 ft) out from the top of the canyon rim. The buffer area is 400 m (1,312 ft) wide, extending outward from the edge of the core area. Although adult Mexican Spotted Owls might be found within their home range anytime throughout the year, the primary threat from disturbance to the owls is during the breeding season when owl pairs are tied to their nest sites; therefore, management of disturbance in Mexican Spotted Owl AEIs is concentrated on the breeding season.

3.1 Method for Identifying a Mexican Spotted Owl AEI

The original location of each Mexican Spotted Owl AEI was identified using a habitat model developed by Johnson (1998) that classified nesting and roosting habitat for Mexican Spotted Owls using topographic characteristics and vegetative diversity. LANL biologists compared the results from the Johnson (1998) model with a different model that identified slopes >40 percent in mixed conifer and ponderosa pine cover types at LANL. Areas identified from the Johnson (1998) model application to LANL that were greater than five contiguous 30 × 30 m (98 × 98 ft) pixels in size, were above 1,980 m (6,496 ft) in elevation, and that had mixed conifer or ponderosa pine forest cover were considered suitable

Mexican Spotted Owl habitat. Where suitable habitat was identified, AEI core area boundaries were established to include the canyons and 100 m (328 ft) outward from the canyon rims.

Following the Cerro Grande wildfire, an updated Mexican Spotted Owl habitat model was developed and refined for application on LANL property (Hathcock and Haarmann 2008). This model incorporated finer-scale vegetation characteristics into the Mexican Spotted Owl habitat quality assessment and was used to redelineate the boundaries of the Mexican Spotted Owl AEIs at LANL in 2005 following wildfire, drought, and a regional bark beetle outbreak (USFWS consultation number 22420-2006-I-0010).

The new core boundaries were delineated with an area approximately 0.4 km (0.25 mi) from the edge of the nearest suitable habitat, up and down canyon. Core boundaries were established along readily recognizable geologic features or anthropogenic features in the terrain wherever possible to facilitate the ease of identification of core boundaries when in the field.

3.2 *Location and Number of Mexican Spotted Owl AEIs*

There are currently five Mexican Spotted Owl AEIs on LANL property, each encompassing one or more canyons. In general, the AEI cores are centered in canyons on the western side of LANL. The canyons with AEIs are Cañon de Valle, Water, Pajarito, Los Alamos, Sandia, Mortandad, and Three-mile.

4.0 AEI Management

4.1 *Overview*

This AEI management section provides guidelines for LANL operations to reduce or eliminate the threats to Mexican Spotted Owls from (1) habitat alterations that reduce habitat quality and (2) disturbance of breeding or potentially breeding owls. Habitat alterations are considered for all AEIs and for both core and buffer areas. Disturbance activities to owls are considered only for occupied AEIs and only for impacts on core areas. Developed areas (see Section I.3.1) that have ongoing baseline levels of activities and are not suitable habitat for Mexican Spotted Owls have different restrictions than undeveloped core or buffer areas; therefore, the location of the disturbance activity within the AEI, the occupancy status of the AEI, and the type of activity all affect whether the activity is allowable. AEIs for different species may overlap, and an activity must meet the guidelines of all applicable site plans to be allowable.

4.2 *Definition and Role of Occupancy in AEI Management*

Occupancy simply refers to whether an AEI is occupied during a species' period of sensitivity. For Mexican Spotted Owls, the primary concern is to protect the owls from disturbance during the breeding season. Because individuals can colonize suitable habitat, all Mexican Spotted Owl AEIs are treated as though they are occupied from March 1 through August 31 or until surveys show an AEI to be unoccupied. Mexican Spotted Owl surveys are conducted from late March through June. In general, surveys in areas with ongoing or proposed projects are completed by May 15. If a nest is located during surveys, then the AEI can be treated as unoccupied except for the area within a 400 m (1,312 ft) radius of the nest site. Because owls are not as sensitive to disturbance during the non-breeding season, Mexican Spotted Owl AEIs are treated as unoccupied from September 1 to February 28.

The occupancy status of an AEI affects what activities are allowable in the AEI. Although activities that cause habitat alterations are restricted in all AEIs, disturbance activities are restricted only in occupied

AEIs. The Activity Table (Table II-1, Section II.4.5.2) provides dates and levels of allowable disturbance activities within occupied Mexican Spotted Owl AEIs under the guidelines of this site plan. Contact a LANL biologist to find out the current occupancy status of an AEI (<https://int.lanl.gov/environment/bio/index.shtml>).

4.3 *Introduction to AEI Management Guidelines*

Sections 4.4 and II.4.5 provide the guidelines for habitat alterations and allowable activities in AEI core and buffer areas. Section II.4.4 describes what and where habitat alterations are allowed under the guidelines of this site plan. Section II.4.5 describes what, when, and where disturbance activities are allowed in occupied AEIs under the guidelines of this site plan. If an activity does not meet the restrictions given in the guidelines, the activity must be individually reviewed for ESA compliance. This site plan provides only guidelines for Mexican Spotted Owl AEIs. If an activity is desired in an area with overlapping AEIs, all applicable site plans must be consulted. AEI maps show the location of all AEIs in an area. Section II.4.6 describes management practices that should be applied when working or considering work in an AEI. LANL biologists are available to answer questions and provide advice (<https://int.lanl.gov/environment/bio/index.shtml>).

4.4 *Definition of and Restrictions on Habitat Alterations*

4.4.1 *Definition of Habitat Alterations*

Habitat alteration includes any action that alters the soil structure, vegetative components necessary to the species, prey quality and quantity, water quality, hydrology, or noise or light levels in undeveloped areas of an AEI. Long term means the alteration lasts for more than 1 year. For physical disturbances, in general, any activity that can be accomplished by one person with a hand tool generally is not considered habitat alteration; any activity that requires mechanized equipment on a landscape is habitat alteration. An actual activity may take place outside of the AEI and will be considered habitat alteration if consequences of the activity have effects inside the AEI core.

The habitat components most important to Mexican Spotted Owls include vegetative structure, food quality and quantity, and disturbance levels, including noise and light. The forest structure within a canyon designated as a Mexican Spotted Owl AEI is important because it provides roost sites and suitable habitat for nesting and foraging. Trees along the canyon rim are used for foraging and territorial calling, and they shelter the canyon interior from light and noise disturbances.

A long-term change in light or noise levels within the undeveloped core of an AEI is considered to be a habitat alteration if it increases average noise levels by >6 dB(A) during any portion of the 24-hour day or if it increases average light levels by >0.05 fc at night. Changes in noise and light levels are measured at the core area boundary if the source is outside the core area or at 10 m (33 ft) from the source if the source is inside the undeveloped core area. Impacts of changes in developed areas on undeveloped cores are measured at the developed area boundary if it is within the core or at the core area boundary if the developed area is outside of the core.

4.4.2 *Fuels Management Practices to Reduce Wildfire Risk*

The recovery plan for the Mexican Spotted Owl lists stand-replacing wildfires as a primary threat to their habitat and encourages land managers to reduce fuel levels and abate fire risks in ways compatible with

owl presence on the landscape (USFWS 1995). Within undeveloped core areas, on slopes >40 percent, in the bottoms of steep canyons, and within 30 m (100 ft) of a canyon rim, thinning of trees <22 centimeters (cm; 9 inches [in.]) diameter at breast height, treatment of fuels, and prescribed and natural prescribed fires are allowed. Exceptions that allow trees >22 cm (9 in.) to be thinned within 30 m (100 ft) of buildings are granted to protect facilities. Large logs (>30 cm [11.8 in.] midpoint diameter) and snags should be retained. Thinning within core areas that do not meet the characteristics listed above and in buffer areas may include trees of any size to achieve 8 m (25 ft) spacing between tree crowns; however, clear cutting is not allowed in undeveloped core areas.

For health and safety reasons, any trees within 30 m (100 ft) of buildings but outside a developed area may be thinned to achieve 8 m (25 ft) spacing between crowns. Habitat alterations, including thinning, are not restricted in developed areas; however, LANL biologists encourage the retention of trees and snags along canyon rims if the rim is in a developed area. Because of the extreme fire danger associated with firing sites and the potential impact of a fire on Mexican Spotted Owl habitat, firing sites and burn areas are treated separately for the purposes of fuels management. Trees within 380 m (1,246 ft) of firing sites and burn areas in both core and buffer areas may be thinned to a 15-m (49-ft) spacing between trees everywhere except on slopes >40 percent or in the bottoms of steep canyons. Any tree in excess of 22 cm (9 in.) diameter at breast height within 380 m (1,246 ft) of a firing site may be delimbed to a height of 2 m (6 ft) to help prevent crown fires.

In historically occupied core areas, fuels treatment may not exceed 10 percent of the undeveloped core area and is not allowed within 400 m (1,312 ft) of nesting areas. In occupied core areas, forest management activities must take place during the nonbreeding season (September 1 to February 28) (USFWS 1995).

4.4.3 Utility Corridors

Habitat alterations, such as cutting down trees that threaten power lines, are allowed within 8 m (26 ft) of either side of an existing utility line in all areas of an AEI (LANL 2020). New utility lines and utility lines that require clearance of a right-of-way greater than 16 m (52 ft) total must be individually reviewed for ESA compliance. Disturbance activities must follow the guidelines given in the Activities Table (Table II-1, Section II.4.5.2) for occupied AEIs.

4.4.4 Restrictions on Habitat Alterations

Habitat alterations other than the fuels management practices and utility corridor maintenance described above are not allowed in undeveloped core areas under the guidelines of this site plan. If a project or activity is planned that would alter habitat in an undeveloped core area, it must be individually evaluated for ESA compliance. Habitat alterations in undeveloped buffer areas other than the fuels management activities and utility corridor maintenance described above are restricted to 2 ha (5 ac) in area per project and are subject to other restrictions, including light and noise effects in the core (see Section II.2.2.3). Projects in the buffer area larger than 2 ha (5 ac) in size will require individual ESA compliance review. A cumulative maximum area may be developed in each AEI's buffer. Once that cumulative area is reached, all habitat alterations in a buffer will require individual ESA reviews for compliance.

4.5 *Definition of and Restrictions on Disturbance Activities*

4.5.1 Definitions of Disturbance Activities

LANL biologists considered six categories of activities that might cause disturbance in an AEI. Most of the categories were first identified in the document “Peregrine Falcon Habitat Management in the National Forests of New Mexico,” prepared for the United States Forest Service (Johnson 1994). LANL biologists added explosives detonation, other light production, and other noise production to provide the most comprehensive list of activities possible, thereby reducing the need for individual review of activities for ESA compliance. The categories of activities are people, vehicles, aircraft, other light production, other noise production, and explosives detonation. LANL biologists defined low, medium, and high levels of impact for these activities except for explosives detonation. Activity levels for explosives detonation have been designed to follow the guidelines agreed upon by LANL, DOE, and USFWS in the DARHT biological assessment (Keller and Risberg 1995). Restrictions on explosives detonation are described in the definition of the activity but are not included in the Activity Table (Table II-1, Section II.4.5.2). These six categories of activities are restricted only in AEIs that are classified as occupied.

People—includes any entry of people into an AEI on foot

- Low impact is the presence of three or fewer people per project and duration of 1 day or less during a breeding season.
- Medium impact is the exceedance of either the number of people or the duration criteria.
- High impact is the exceedance of both the number of people and the duration criteria.

Vehicles—includes the entry of any two-axle highway vehicle, all-terrain vehicle, or motorized machinery into an AEI by any route other than a paved road or an improved gravel road

- Low impact is the presence of two or fewer vehicles per project and duration of 1 day or less during a breeding season.
- Medium impact is the exceedance of either the number of vehicles or the duration criteria.
- High impact is the exceedance of both the number of vehicles and the duration criteria.

Aircraft—includes the operation of any aircraft below an elevation of 600 m (2,000 ft) above the highest ground level in the local vicinity

- Low impact is the presence of one single-engine airplane and the duration of 1 day or less during a breeding season.
- Medium impact is the exceedance of either the number of aircraft or the duration criteria.
- High impact is the exceedance of both the number of aircraft and the duration criteria.

Any use of helicopters, jet airplanes, and propeller airplanes with two or more engines is classified as medium impact or above, depending on duration.

Other Light Production—includes any activity not previously listed that causes additional light to occur in an AEI core area. For example, plans for construction of a new building at the edge of a developed area may call for lighting at night to facilitate nighttime work that impacts an undeveloped core area.

- Low impact is the increase of light intensity by ≤ 0.05 fc and a duration of 1 night or less per project per breeding season.
- Medium impact is the exceedance of either the intensity or duration criteria.
- High impact is the exceedance of both the intensity and duration criteria.

Measurements for increases in light are taken at the AEI core area boundary closest to the light source if the source is outside the core and at 10 m (33 ft) from the source if the source is inside the core. Light measurements for developed areas are taken at the edge of the developed area if the developed area is within an AEI core or at the closest core boundary if the developed area is outside of an AEI core.

Other Noise Production—includes any activity not previously listed except for explosives detonation that causes additional noise to occur in an AEI. For example, operation of machinery creates noise.

- Low impact is increasing noise levels in an AEI core by 6 dB(A) or less for 1 day or less per project per breeding season.
- Medium impact is the exceedance of either the level or the duration criteria.
- High impact is the exceedance of both the level and the duration criteria.

Measurements for increases in noise are taken at the AEI core boundary closest to the noise source if the source is outside the core and at 10 m (33 ft) from the source if the source is inside the core. Noise measurements for developed areas are taken at the edge of the developed area if the developed area is within an AEI core or at the closest core boundary if the developed area is outside of an AEI core.

Explosives Detonation—includes the use of high explosives for any purpose. LANL biologists did not define low, medium, and high levels of this activity because of the difficulty of determining levels for a shot before actually doing the shot. For the purpose of explosives detonation near Mexican Spotted Owl AEIs, occupied habitat is defined as the area within 400 m (1,312 ft) of the current year's nest/roost sites or the previous year's nest site if a current site has not been identified. No explosives detonation will take place within 400 m (1,312 ft) of nest/roost sites in occupied habitat between March 1 and August 31. Explosives detonation at night at sites within 400 to 800 m (1,312 to 2,624 ft) of a nest site in occupied habitat is restricted to once per month from March 1 and August 31. No restrictions exist on daytime explosives testing between 400 and 800 m (1,312 to 2,624 ft), and no restrictions exist between September 1 and February 28 or in unoccupied habitat. Explosives detonation adjacent to AEIs that have not previously been recorded by LANL biologists as occupied will have no restrictions unless surveys detect Mexican Spotted Owls. Explosives tests not allowed under the guidelines of this site plan must be individually reviewed for ESA compliance.

4.5.2 Activity Table

The dates shown in the Activity Table (Table II-1) are the dates between which the activity in the row is restricted under the guidelines of this site plan. All AEIs are considered occupied from March 1 to August 31 or until surveys show an AEI to be unoccupied. If owls are detected, AEIs are considered occupied

until August 31 within 400 m (1,312 ft) of the nest site. Consult with LANL biologists to find out occupancy status of AEIs and what locations are within 400 m (1,312 ft) of nest sites (<https://int.lanl.gov/environment/bio/index.shtml>).

Table II-1. Restrictions on Activities in Undeveloped Occupied Mexican Spotted Owl AEIs

Levels of Impact	Core	Buffer
People		
Low	No Restrictions*	No Restrictions
Medium	March 1 to August 31	No Restrictions
High	March 1 to August 31	No Restrictions
Vehicles		
Low	No Restrictions	No Restrictions
Medium	March 1 to August 31	No Restrictions
High	March 1 to August 31	No Restrictions
Aircraft		
Low	March 1 to August 31	No Restrictions
Medium	March 1 to August 31	March 1 to May 15
High	March 1 to August 31	March 1 to August 31
Other Light Production		
Low	March 1 to August 31	No Restrictions**
Medium	March 1 to August 31	No Restrictions**
High	March 1 to August 31	No Restrictions**
Other Noise Production		
Low	March 1 to August 31	No Restrictions**
Medium	March 1 to August 31	No Restrictions**
High	March 1 to August 31	No Restrictions**
Explosives Detonation (see text in Section 4.5.1)		

* Entry is restricted in core areas that are occupied within 400 m (1,312 ft) of the nest site from March 1 to August 31. If the current nest has not been located, entry is restricted within 400 m (1,312 ft) of the previous year's nest site.

** Noise or light production in the buffer is restricted if the activity would violate core area restrictions on noise or light.

4.6 Protective Measures

This section provides a list of management practices to apply in Mexican Spotted Owl AEIs.

- Timing of projects must take into account that projects in core areas or projects that violate restrictions for occupied buffer areas must stop on February 28 of each year until occupancy status of the AEI is determined.
- Make every reasonable effort to reduce the noise from explosives testing within 800 m (2,624 ft) of occupied habitat. Methods to reduce noise could include contained shots, noise shields in the direction of AEI cores, etc. For night shots, every reasonable effort should be made to limit the amount of light directed into AEI core areas.
- Install signs on dirt roads and trails that lead into AEIs, posting them as restricted access areas and providing a contact number for access restrictions.

-
- Keep disturbance and noise to a minimum.
 - Avoid unnecessary disturbance to vegetation (e.g., excessive parking areas or equipment storage areas, off-road travel, materials storage areas, crossing of streams or washes).
 - Avoid removal of vegetation along drainage systems and stream channels.
 - Avoid all vegetation removals not absolutely necessary.
 - Employ appropriate erosion and runoff controls to reduce soil loss. The controls must be put in place and periodically checked throughout the life of projects.
 - Revegetate all exposed soils as soon as feasible after construction to minimize erosion.
 - Focus development away from undeveloped areas on the western end of the Los Alamos Canyon AEI.

5.0 Allowable Habitat Alteration in the Buffer Areas

The following quantifications of development and guidance for allowable habitat alteration in buffer areas were published and consulted on in the 1999 version of the HMP. Most AEIs changed in dimensions during the 2005 redelineation of the habitats, and many have experienced additional development under past consultations. Many projects were reviewed and received USFWS concurrence between 1999 and 2017.

The current development status for each of the AEIs is at the end of each AEI description. This section was updated in the 2022 revision. The original framework for the HMP included allowable levels of future development in buffer habitat for each AEI. The AEI boundaries have changed over time, so the percent of allowable development was used to compare 1999 values to 2022 levels.

Cañon de Valle

In 1999, 16.3 ha (40.3 ac) of the core was developed, and 52.2 ha (129 ac) of the buffer was developed. For this AEI, it was recommended that only an additional 25.30 ha (62.5 ac) of the AEI buffer be developed, which is 9.7 percent. The 1999 HMP stated that once this cap is reached or a large-scale project is proposed, additional consultation with USFWS would be required. By 2011, 28 ha (69.2 ac) of the core and 84 ha (207.5 ac) of the buffer was developed, with most of the changes due to consultations. The 2017 redelineation of the lower Water Canyon AEI resulted in another reduction of 69 ha (170 ac). The current size of this AEI is 277 ha (685 ac) of core and 524 ha (1,295 ac) of buffer habitat. Of that, 18.6 ha (46 ac) of the current core is developed, and 80.5 ha (199 ac) of the current buffer is developed. As of this 2022 HMP revision, 15.47 percent of the buffer is developed. Any future development in buffer would require a consultation.

Pajarito

In 1999, 6.7 ha (16.5 ac) of the core was developed, and 75.1 ha (186.5 ac) of the buffer was developed. For this AEI, it was recommended that only an additional 35 ha (86.4 ac) of the buffer be developed, which is 21.8 percent. The 1999 HMP stated that once the cap is reached or a single large-scale project is proposed, additional consultation with the USFWS would be required. By 2011, 27 ha (66.7 ac) of the core and 89 ha (220 ac) of the buffer was developed, with most of the changes due to consultations. The current size of this AEI is 236 ha (585 ac) of core and 449 ha (1,111 ac) of buffer habitat. Of that, 29.5 ha

(73 ac) of the current core is developed, and 101.5 ha (251 ac) of the current buffer is developed. As of this 2022 HMP revision, 22.6 percent of the buffer is developed. Any future development in buffer would require a consultation.

Los Alamos

In 1999, 77.16 ha (190 ac) of the core was developed, and 167.2 ha (413.1 ac) of the buffer was developed, which is 9.97 percent. Because this AEI is heavily developed, additional development was restricted to a few selected areas within the buffer. By 2011, 94 ha (232.2 ac) of the core and 181 ha (447.3 ac) of the buffer was developed, with most of the changes due to consultations. The current size of this AEI is 325 ha (805 ac) of core and 535 ha (1,323 ac) of buffer habitat. Of that, 125.4 ha (310 ac) of the current core is developed, and 347.2 ha (858 ac) of the current buffer is developed. These increases are largely due to large tracts of land that were transferred to Los Alamos County through the Land Conveyance and Transfer project (USFWS consultation number 2-22-01-F-634). As of this 2022 HMP revision, 64.8 percent of the buffer is developed. Any future development in buffer would require a consultation.

Sandia-Mortandad

In 1999, 29 ha (71.7 ac) of the core was developed, and 75.1 ha (185.6 ac) of the buffer was developed. For this AEI, it was recommended that only an additional 38.1 ha (94.1 ac) of the buffer be developed, which is 20.2 percent, before additional USFWS consultations take place. By 2011, 45 ha (111.2 ac) of the core and 83 ha (205.1 ac) of the buffer was developed, with most of the changes due to consultations. The current size of this AEI is 270 ha (669 ac) of core and 371 ha (918 ac) of buffer habitat. Of that, 48.5 ha (120 ac) of the current core is developed, and 101.2 ha (250 ac) of the current buffer is developed. As of this 2022 HMP revision, 27.2 percent of the buffer is developed. Any future development in buffer would require a consultation.

Three-mile

In 1999, 3.8 ha (9.4 ac) of the core was developed, and 21.5 ha (51.1 ac) of the buffer was developed. For this AEI, it was recommended that only 64.3 ha (158.8 ac) additional area of buffer be developed, which is 24.9 percent, before additional USFWS consultations take place. By 2011, 12 ha (29.6 ac) of the core and 37 ha (91.4 ac) of the buffer was developed, with most of the changes due to consultations. The current size of this AEI is 131 ha (325 ac) of core and 295 ha (730 ac) of buffer habitat. Of that, 7.2 ha (18 ac) of the current core is developed, and 32.3 ha (80 ac) of the current buffer is developed. As of this 2022 HMP revision, 10.9 percent of the buffer is developed. Additionally, this AEI has been occupied since 2007.

III. AREA OF ENVIRONMENTAL INTEREST SITE PLAN FOR THE SOUTHWESTERN WILLOW FLYCATCHER

1.0 Species Description—Southwestern Willow Flycatcher

1.1 Status

In 1995, the USFWS designated the Southwestern Willow Flycatcher as a federally endangered species (60 FR 10693). The USFWS most recently designated critical habitat for the Southwestern Willow Flycatcher in 2013 (78 FR 343). The most recent recovery plan for the Southwestern Willow Flycatcher was published in 2002 (USFWS 2002).

1.2 General Biology

The Southwestern Willow Flycatcher is one of four subspecies of the Willow Flycatcher. The historic range of the Southwestern Willow Flycatcher included Arizona, California, Colorado, New Mexico, Texas, Utah, and Mexico. Currently, this flycatcher breeds in riparian habitats from southern California to Arizona and New Mexico, plus southern Colorado, Utah, Nevada, and far western Texas. In winter, it is found in southern Mexico, Central America, and northern South America (USFWS 2002).

Southwestern Willow Flycatchers are present in New Mexico from early May through mid-September and breed from late May through late July (Finch and Kelly 1999; USFWS 2002; Yong and Finch 1997). The flycatcher's nesting cycle is approximately 28 days. Three or four eggs are laid at 1-day intervals, and incubation begins when the clutch is complete. The female incubates eggs for approximately 12 days, and the young fledge about 13 days after hatching. Southwestern Willow Flycatchers typically raise one brood per year (USFWS 2002). Because arrival dates vary, northbound migrant Willow Flycatchers (of all subspecies) pass through areas where Southwestern Willow Flycatchers have already begun nesting. Similarly, southbound migrants (of all subspecies) in late July and August might occur where Southwestern Willow Flycatchers are still breeding; therefore, it is only during a short period of the breeding season (approximately June 15 through July 20) that a Willow Flycatcher seen within Southwestern Willow Flycatcher range is probably of that subspecies (USFWS 2002).

The Southwestern Willow Flycatcher nests only along rivers, streams, and other wetlands. It is found in close association with dense stands of willows (*Salix spp.*), arrowweed (*Pluchea spp.*), buttonbush (*Cephalanthus spp.*), tamarisk (*Tamarix spp.*), Russian olive (*Eleagnus angustifolia L.*), and other riparian vegetation, often with a scattered overstory of cottonwood (*Populus spp.*) (USFWS 2002). The size of vegetation patches or habitat mosaics used by Southwestern Willow Flycatchers varies considerably and ranges from as small as 0.8 ha (1.9 ac) to several hundred hectares (Hatten and Paradzick 2003). The Southwestern Willow Flycatcher nests in thickets of trees and shrubs approximately 2 to 15 m (6 to 49 ft) tall, with a high percentage of canopy cover and dense foliage from 0 to 4 m (0 to 13 ft) above ground. Regardless of the plant species composition or height, occupied sites always have dense vegetation in the patch interior (Allison et al. 2003; USFWS 2002).

The Southwestern Willow Flycatcher is an insectivore. It forages within and occasionally above dense riparian vegetation, taking insects on the wing and gleaning them from foliage. The flycatcher's prey includes flies, bees, wasps, ants, beetles, moths, butterflies, grasshoppers, crickets, dragonflies, damselflies, and spiders (Durst et al. 2008; Wiesenborn and Heydon 2007).

1.3 Threats

The current population of Southwestern Willow Flycatchers in the United States occupies an estimated 1,214 territories (Durst et al. 2006). The distribution of breeding groups is highly fragmented, with groups often separated by considerable distances. This subspecies has suffered declines attributed to extensive loss of its cottonwood-willow habitat and to poor productivity resulting from brood parasitism by Brown-headed Cowbirds (*Molothrus ater*) (USFWS 2002).

2.0 Impact of Human Activities

2.1 Introduction

The primary threats to the Southwestern Willow Flycatcher on LANL property are (1) impacts on habitat quality from LANL operations and (2) disturbance of nesting flycatchers. This section includes a review and summary of the known effects of various types of human activities to the Southwestern Willow Flycatcher and an overview of the current levels of activities at LANL within species habitat.

2.2 Impacts on Habitat Quality

2.2.1 Development

Throughout the Southwest, riparian habitats are rare and tend to be small and separated by vast expanses of arid lands. The Southwestern Willow Flycatcher has experienced extensive habitat loss and modification resulting from urban and agricultural development, water diversion and impoundment, channelization of waterways, livestock grazing, off-road vehicle and other recreational uses, and hydrological changes that result from these and other land uses (USFWS 2002). River and stream impoundments, groundwater pumping, and overuse of riparian areas have altered as much as 90 percent of the Southwestern Willow Flycatcher's habitat (USFWS 2002). Loss of cottonwood-willow riparian forests has had widespread impact on the distribution and abundance of bird species associated with that forest. Development may be tolerated if the habitat is left intact.

Because watercourses at LANL tend to be intermittent to ephemeral, riparian habitat is uncommon. Extensive degradation of the riparian zone has occurred along the Rio Grande, caused by feral-cattle grazing and flood-control operations at Cochiti Lake. Other riparian/wetland areas on LANL property are associated with canyon bottoms, the most significant being the Pajarito wetlands in the lower end of Pajarito Canyon. A major paved road parallels the wetlands area in Pajarito Canyon.

2.2.2 Ecological Risk

There is no specific information on the impact of chemicals on the Southwestern Willow Flycatcher.

Ecological Risk Assessment

LANL subject matter experts completed two ecological risk assessments between 1997 and 2009 that included the Southwestern Willow Flycatcher. The ecological risk assessment process involves using computer modeling to assess potential effects to animals from chemicals of potential concern that have been detected in the environment. The ecological risk assessments concluded that, in general, there is a small potential for effects to Southwestern Willow Flycatcher from chemicals of potential concern (Gonzales et al. 1998; Gonzales et al. 2009).

An ecotoxicological risk assessment for the Southwestern Willow Flycatcher, centered on the Pajarito wetlands, found that between 7 and 16 percent of 100 hypothetical nest sites examined had hazard indices >1.0 and <10.0, depending on the foraging scenario (Gonzales et al. 1998). This result indicates a small potential for impacts from chemicals. The primary chemicals that drove the risk scenario were pentachlorophenol, aluminum, radium-226, calcium, and thorium-228. Aluminum, radium, and thorium are naturally occurring substances in northern New Mexico.

2.2.3 Disturbance

Pedestrians and Vehicles

No specific information is available on the reactions of Southwestern Willow Flycatchers to pedestrians and vehicles. The recovery plan for the Southwestern Willow Flycatcher recommends providing protected areas, reducing unpredictable activities, providing visual barriers, and reducing noise disturbance (USFWS 2002).

Aircraft

No specific information is available on the reaction of Southwestern Willow Flycatchers to aircraft.

LANL lies within restricted airspace, and planes infrequently fly less than 609 m (2,000 ft) above ground level. The County of Los Alamos operates an airport along the northern edge of LANL. The airport is located on the southern rim of Pueblo Canyon. Most flights approach and depart to the east of the airport, over the Rio Grande.

Explosives

No specific information is available on the reaction of Southwestern Willow Flycatchers to explosives detonation. The Southwestern Willow Flycatcher AEI is not located close to any explosives-testing sites at LANL.

Other Sources of Noise

LANL biologists do not have good information on the effects of noise, including machinery operation, on Southwestern Willow Flycatchers; however, Southwestern Willow Flycatchers are probably not as sensitive to disturbance as some other threatened or endangered species (USFWS 2002). For a description of noise levels at LANL, see Section II.2.2.3.

Artificially Produced Light

No information is available on the effects of artificially produced light on Southwestern Willow Flycatchers. Under the Los Alamos County Code, commercial site development plans are reviewed to ensure that lighting serves the intended use of the site while minimizing adverse impacts to adjacent residential property (Section 16-276). Section 16-276 of the County Code includes light-source measurement limitations by zoning district. The code allows offsite light to be 0.5 fc in residential areas. By comparison, full moonlight measures 0.1 fc, and a crescent moon was measured at 0.01 fc.

3.0 AEI General Description for the Southwestern Willow Flycatcher

The AEI consists of two types of areas: core and buffer. Core areas represent wetland areas with suitable vegetation for nesting, primarily dense willows. The buffer area is the area within 100 m (328 ft) of core areas. The Southwestern Willow Flycatcher AEI on LANL property consists of two separate core areas. For purposes of this site plan, both core areas and associated buffers are considered one AEI unit.

3.1 *Method for Identifying the Southwestern Willow Flycatcher AEI*

The core areas were defined by the presence of riparian habitat and suitable wetland vegetation. These areas were identified in 1994 during a survey of wetlands at LANL and mapped using a global positioning system receiver. Wetlands without stands of dense willows at least 2 m (7 ft) tall and 30 m (98 ft) wide were not included in the AEI. The buffer area is the area within 100 m (328 ft) of the core areas.

3.2 *Location of the Southwestern Willow Flycatcher AEI*

There is one Southwestern Willow Flycatcher AEI on LANL property. It is composed of two core areas with associated buffers. The AEI core areas are located in the bottom of Pajarito Canyon, on the eastern side of LANL adjacent to Pajarito Road and State Road 4.

4.0 AEI Management

4.1 *Overview*

This AEI management section provides guidelines for LANL operations to reduce or eliminate the threats to the Southwestern Willow Flycatcher from (1) habitat alterations that reduce habitat quality and (2) disturbance of breeding or potentially breeding flycatchers. Habitat alterations are considered for all AEIs and for both core and buffer areas. Disturbance activities to flycatchers are considered only for occupied AEIs and only for impacts on core areas. Developed areas (see I.3.1 that have ongoing baseline levels of activities and are not suitable habitat for Southwestern Willow Flycatchers have different restrictions than undeveloped core or buffer areas; therefore, the location of the disturbance activity within the AEI, the occupancy status of the AEI, and the type of activity all affect whether the activity is allowable. AEIs for different species may overlap, and an activity must meet the guidelines of all applicable site plans to be allowable. Protective measures are described as management practices that should be followed when working in AEIs.

4.2 *Definition and Role of Occupancy in AEI Management*

Occupancy simply refers to whether an AEI is occupied during a species' period of sensitivity. For Southwestern Willow Flycatchers, LANL biologists are primarily concerned with protecting the birds from disturbance during the breeding season. Because individuals can colonize suitable habitat, the Southwestern Willow Flycatcher AEI is treated as though it is occupied from May 15 through September 15 or until surveys show an AEI to be unoccupied. Southwestern Willow Flycatcher surveys are conducted during May, June, and July. Because Southwestern Willow Flycatchers migrate south for the winter, the AEI is treated as unoccupied from September 16 to May 14.

The occupancy status of an AEI affects what activities are allowable in the AEI. Although activities that cause habitat alterations are always restricted, disturbance activities are restricted only in occupied AEIs. The Activity Table (Table II-1, Section II.4.5.2) provides dates and levels of disturbance activities allowable in the occupied Southwestern Willow Flycatcher AEI under the guidelines of this site plan. The dates in Table II-1 indicate the period during which the activity is restricted. Contact a LANL biologist to find out the current occupancy status of an AEI (<https://int.lanl.gov/environment/bio/index.shtml>).

4.3 Introduction to AEI Management Guidelines

Sections II.4.4 and II.4.5 provide the guidelines for habitat alterations and allowable activities in AEI core and buffer areas. The flowchart (see Figure I-1) provides a quick reference that should be used to determine if a project or activity will affect an AEI and what sections of the site plan need to be consulted. The section on habitat alterations (Section II.4.4) describes what and where habitat alterations are allowed under the guidelines of this site plan. Section II.4.5 and Table II-1 describe what, when, and where disturbance activities are allowed in occupied AEIs under the guidelines of this site plan. If an activity does not meet the restrictions given in the guidelines, the activity must be individually reviewed for ESA compliance. This site plan provides only guidelines for the Southwestern Willow Flycatcher AEI. If an activity is desired in an area that has overlapping AEIs, all applicable site plans must be consulted. Section II.4.6 describes management practices that should be applied when working or considering work in an AEI. LANL biologists are available to help interpret site plans and answer questions (<https://int.lanl.gov/environment/bio/index.shtml>).

4.4 Definition of and Restrictions on Habitat Alterations

4.4.1 Definition of Habitat Alterations

Habitat alteration includes any action that, over the long term, alters the soil structure, vegetative components necessary to the species, prey quality and quantity, water quality, hydrology, or noise or light levels in undeveloped areas of an AEI. Long term means that the alteration lasts for more than 1 year. Habitat alteration includes any activity that removes vegetative components important to the Southwestern Willow Flycatcher (primarily trees and shrubs). An actual activity may take place outside of the AEI and will be considered habitat alteration if consequences of the activity have effects inside the AEI core.

The habitat components most important to flycatchers include vegetative structure, food quality and quantity, and disturbance levels, including noise and light. The thickets of certain trees and shrubs along wetlands are important because they provide roost sites and a suitable habitat for nesting and foraging.

4.4.2 Fuels

Management Practices to Reduce Wildfire Risk

Thinning within undeveloped buffer areas may include trees of any size to achieve 7.6 m (25 ft) spacing between tree crowns; however, clear cutting is not allowed in undeveloped buffer areas. No fuels management practices are allowed in core areas. Habitat alterations, including thinning, are not restricted in developed areas.

4.4.3 Utility Corridors

Habitat alterations, such as cutting down trees that threaten power lines, are allowed within 8 m (26 ft) of either side of an existing utility line in all areas of an AEI (LANL 2020). New utility lines and utility lines that require clearance of a right-of-way greater than 16 m (52 ft) total must be individually reviewed for ESA compliance. Disturbance activities must follow the guidelines given in the Activities Table (Table II-1, Section II.4.5.2) for occupied AEIs.

4.4.4 Restrictions on Habitat Alterations

Habitat alterations other than the utility corridor maintenance described above are not allowed in undeveloped core areas under the guidelines of this site plan. Habitat alteration in buffers is limited. If a project or activity is planned that would alter habitat in an undeveloped core area, it must be individually evaluated for ESA compliance.

4.5 *Definition of and Restrictions on Disturbance Activities*

4.5.1 Definition of Disturbance Activities

LANL biologists considered five categories of activities that might cause disturbance in an AEI. Most of the categories were first identified in the document “Peregrine Falcon Habitat Management in the National Forests of New Mexico,” prepared for the United States Forest Service (Johnson 1994). Other light production and other noise production were included to provide the most comprehensive list of activities possible, reducing the need for individual review of activities for ESA compliance. The categories of activities are people, vehicles, aircraft, other light production, and other noise production. The impact of explosives detonation on this species is not considered here because no explosives-testing sites are located within 2 km (1.25 mi) of potential nesting habitat. Low, medium, and high levels of impact for these activities are considered here. The following categories of activities are restricted only in AEIs that are classified as occupied.

People—includes any entry of people into an AEI on foot

- Low impact is the presence of three or fewer people per project and duration of 1 day or less during a breeding season.
- Medium impact is the exceedance of either the number of people or the duration criteria.
- High impact is the exceedance of both the number of people and the duration criteria.

Vehicles—includes the entry of any two-axle highway vehicle, all-terrain vehicle, or motorized machinery into an AEI by any route other than a paved road or an improved gravel road

- Low impact is the presence of two or fewer vehicles per project and duration of 1 day or less during a breeding season.
- Medium impact is the exceedance of either the number of vehicles or the duration criteria.
- High impact is the exceedance of both the number of vehicles and the duration criteria.

Aircraft—includes the operation of any aircraft below an elevation of 600 m (2,000 ft) above the highest ground level in the local vicinity

- Low impact is the presence of one single-engine airplane and duration of 1 day or less during a breeding season.
- Medium impact is the exceedance of either the number of aircraft or the duration criteria.
- High impact is the exceedance of both the number of aircraft and the duration criteria.

Any use of helicopters, jet airplanes, and propeller airplanes with two or more engines is classified as medium impact or above, depending on duration.

Other Light Production—includes any activity not previously listed that causes additional light to occur in an AEI core area (e.g., plans for construction of a new building at the edge of a developed area may call for lighting at night to facilitate nighttime work that impacts an undeveloped core area).

- Low impact is the increase of light intensity by up to 0.05 fc and a duration of 1 night or less per project per breeding season.
- Medium impact is the exceedance of either the intensity or duration criteria.
- High impact is the exceedance of both the intensity and duration criteria.

Measurements for increases in light are taken at the AEI core area boundary closest to the light source if the source is outside the core and at 10 m (33 ft) from the source if the source is inside the core. Light measurements for developed areas are taken at the edge of the developed area if the developed area is within an AEI core or at the closest core boundary if the developed area is outside of an AEI core.

Other Noise Production—includes any activity not previously listed except for explosives detonation that causes additional noise to occur in an AEI. For example, operation of machinery causes noise.

- Low impact is increasing noise levels in an AEI core by 6 dB(A) or less for 1 day or less per project per breeding season.
- Medium impact is the exceedance of either the level or the duration criteria.
- High impact is the exceedance of both the level and the duration criteria.

Measurements for increases in noise are taken at the AEI core boundary closest to the noise source if the source is outside the core and at 10 m (33 ft) from the source if the source is inside the core. Noise measurements for developed areas are taken at the edge of the developed area if the developed area is within an AEI core or at the closest core boundary if the developed area is outside of an AEI core.

4.5.2 Activity Table

The dates shown in the Activity Table (Table III-1) are the dates between which the activity in the row is restricted under the guidelines of this site plan. Disturbance activities are of concern only when Southwestern Willow Flycatchers occupy an AEI. The AEI is always considered occupied between May 15 and September 15 or until surveys show the AEI to be unoccupied. The Southwestern Willow Flycatcher AEI is always considered unoccupied between September 16 and May 14, when flycatchers have migrated for the winter. For occupancy status of an AEI after completion of surveys, contact a LANL biologist (<https://int.lanl.gov/environment/bio/index.shtml>).

Table III-1. Restrictions on Activities in Undeveloped Occupied

Levels of Impact	Core	Buffer
People		
Low	No Restrictions	No Restrictions
Medium	May 15 to August 15	No Restrictions
High	May 15 to September 15	No Restrictions
Vehicles		
Low	May 15 to September 15	No Restrictions
Medium	May 15 to September 15	No Restrictions
High	May 15 to September 15	No Restrictions
Aircraft		
Low	No Restrictions	No Restrictions
Medium	May 15 to August 15	May 15 to August 15
High	May 15 to September 15	May 15 to August 15
Other Light/Noise Production		
Low	May 15 to September 15	No Restrictions*
Medium	May 15 to September 15	No Restrictions*
High	May 15 to September 15	No Restrictions*

*Noise or light production in the buffer is restricted if the activity would violate core area restriction on noise or light.

4.6 Protective Measures

This section provides a list of management practices to apply in the AEI.

- No wetland vegetation will be removed outside of developed areas.
- Employ appropriate erosion and runoff controls to reduce soil loss.
- Avoid unnecessary disturbance to vegetation (e.g., excessive parking areas or equipment storage areas, off-road travel, materials storage areas, crossing of streams or washes).
- Avoid removal of vegetation along drainage systems and stream channels.
- Avoid all vegetation removals not absolutely necessary.
- Appropriate erosion controls must be put in place and periodically checked throughout the life of any projects.
- Revegetate all exposed soils as soon as feasible after disturbance to minimize erosion.

5.0 Southwestern Willow Flycatcher AEI Description

5.1 Pajarito Canyon Southwestern Willow Flycatcher AEI

5.1.1 Allowable Habitat Alteration in the Buffer Area

Because the purpose of the buffer area is to help maintain the core area as suitable Southwestern Willow Flycatcher habitat, habitat alteration in the buffer area will be extremely limited. Restrictions on habitat alteration are relaxed in two areas:

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- The mesa top of Mesita del Buey. This mesa top can be developed if restrictions on impacts to the core area are met.
 - Pajarito Road within the AEI. Mowing of upland vegetation is allowed up to 5 m (15 ft) from Pajarito Road or to the fence if the fence is within 9 m (30 ft). Vegetation must cover the roadsides to prevent sediment runoff, so mowed plants should be at least 5 cm (2 in) high. LANL biologists encourage the growth of willow throughout the AEI—even the area along Pajarito Road—to enhance habitat. If it is absolutely necessary to remove new willow growth (i.e., to improve visibility for human safety) within this area, LANL biologists recommend that only willows at or above the level of the roadway surface be mowed.

IV. AREA OF ENVIRONMENTAL INTEREST SITE PLAN FOR THE JEMEZ MOUNTAINS SALAMANDER

1.0 Species Description—Jemez Mountains Salamander

1.1 Status

In 2006, the Jemez Mountains Salamander was listed in New Mexico as endangered under the Wildlife Conservation Act of New Mexico (NMDGF 2006). In September 2012, the USFWS proposed the Jemez Mountains Salamander as endangered under the ESA (77 FR 56481), and the final listing as endangered occurred on September 10, 2013 (78 FR 55599).

1.2 General Biology

The Jemez Mountains Salamander is endemic to the Jemez Mountains of north-central New Mexico and is found in Los Alamos, Rio Arriba, and Sandoval counties (Stebbins and Rierner 1950). It is one of two endemic plethodontid salamanders that occurs in New Mexico, predominantly at elevations between 2,130 to 3,430 m (6,988 to 11,254 ft) in mixed-conifer forest with greater than 50 percent canopy cover that consists mainly of Douglas fir (*Pseudotsuga menziesii* [Mirb.] Franco), blue spruce (*Picea pungens* Engelm.), Engelmann spruce (*Picea engelmannii* Parry ex Engelm.), white fir (*Abies concolor* [Gord. & Glend.] Lindl. ex Hildebr.), limber pine (*Pinus flexilis* James), ponderosa pine, and quaking aspen (*Populus tremuloides* Michx.). The ground surface in forest areas has (a) moderate-to-high volumes of large fallen trees and other woody debris, especially coniferous logs at least 25 cm (10 in) in diameter, particularly Douglas fir, which are in contact with the soil in varying stages of decay from freshly fallen to nearly fully decomposed; or (b) structural features, such as rocks, bark, and moss mats, that provide the species with food and cover. Underground habitat in forest or meadow areas contains interstitial spaces provided by (a) igneous rock with fractures or loose rocky soils, (b) rotted tree root channels, or (c) burrows of rodents or large invertebrates (Degenhardt et al. 1996; 78 FR 9876).

Plethodontid salamanders, which lack both lungs and gills, breathe through the mucous membranes in their mouth and throat and through their moist skin. The Jemez Mountains Salamander is completely terrestrial and does not use standing surface water for any life stage (77 FR 56481). Present in its habitat year-round, the Jemez Mountains Salamander spends most of its life underground but can be found on the surface when conditions are warm and wet, approximately July through October. During this time, the Jemez Mountains Salamander can be found under rocks, bark, and moss mats, and inside and under logs (Ramotnik 1986, Everett 2003). The Jemez Mountains Salamander eats invertebrates, including ants, mites, and beetles, and is thought to lay its eggs underground (78 FR 9876).

1.3 Threats

Principal threats to habitat include historical fire exclusion and suppression and severe wildland fires; forest composition and structure conversions; post-fire rehabilitation; forest and fire management; roads, trails, and habitat fragmentation; recreation; and disease (77 FR 56482).

2.0 Impact of Human Activities

2.1 Introduction

Primary threats to the Jemez Mountains Salamander on LANL property are impacts to habitat quality or destruction of individual salamanders caused by LANL or Los Alamos County operations. Forested LANL property is also subject to impacts from severe wildland fire and wildfire suppression.

2.2 Impacts on Habitat Quality

2.2.1 Development

Property at LANL varies from remote, isolated land to heavily developed and/or industrialized. Most of the large developed areas at LANL are found on mesa tops, generally in the northern and western portion of LANL. The areas of Jemez Mountains Salamander habitat currently most impacted by development occur in Los Alamos Canyon. A secondary paved road (West Road) in the bottom of the canyon exits the canyon on the north-facing slope through Jemez Mountains Salamander habitat. The canyon bottom also contains a recreational ice rink operated by Los Alamos County on an inholding owned by Los Alamos County. Development that reduces the occurrence of primary constituent elements of Jemez Mountains Salamander in core habitat would likely have a negative impact on the species.

2.2.2 Pedestrians and Vehicles

Many canyon bottoms and mesa tops at LANL have dirt roads traversing them. Most of these roads are gated; however, many of these roads are accessible to LANL employees and the public on foot or by bicycle. Some areas, such as Los Alamos Canyon, are frequently used by hikers and dog owners on active and historic trails that traverse the canyon, through Jemez Mountains Salamander habitat in places. Maintenance of roads and trails in the habitat may have a negative impact on the species.

2.2.3 Severe Wildland Fire and Wildfire Suppression

Stand-replacing wildfires significantly change forest composition and structure and reduce canopy cover. Even ground wildfires could reduce the volume of fallen logs and large woody debris. Large areas of historic Jemez Mountains Salamander habitat have been impacted by stand-replacing wildfires associated with current forest stocking conditions, drought, and high temperatures (77 FR 56482). Forested habitats on LANL property are also subject to severe wildland fires. To mitigate wildfire risks, some areas of LANL have been treated for fuels reduction and creation of fuel breaks both pre-emptively and during active wildfire suppression. Both wildfires and wildfire suppression activities can negatively impact the primary constituent elements of Jemez Mountains Salamander core habitat.

2.3 Impacts on Individual Salamanders

2.3.1 Disease

The amphibian pathogenic fungus *Batrachochytrium dendrobatidis* (Bd) was found in a wild-caught Jemez Mountains Salamander in 2003 (Cummer et al. 2005) on the east side of the species' range and again in another Jemez Mountains Salamander in 2010 on the west side of the species' range (77 FR 56482). Bd causes the disease chytridiomycosis, whereby the Bd fungus attacks keratin in amphibians. In adult amphibians, keratin primarily occurs in the skin. The symptoms of chytridiomycosis can include

sloughing of skin, lethargy, morbidity, and death. Chytridiomycosis has been linked with worldwide amphibian declines, die-offs, and extinctions, possibly in association with climate change (Pounds et al. 2006). Chytridiomycosis could be a threat to the Jemez Mountains Salamander because this disease is a threat to many other species of amphibians, and the pathogen has been detected in the Jemez Mountains Salamander (77 FR 56482).

As part of a cooperative study with the New Mexico Department of Game and Fish between 2007 and 2013, various amphibian species, including the canyon tree frog (*Hyla arenicolor*), western chorus frog (*Pseudacris triseriata*), Woodhouse's toad (*Anaxyrus woodhousii*), tiger salamander (*Ambystoma tigrinum*), and Jemez Mountains Salamander were tested for Bd infection at LANL. To date, all sampling has been negative for Bd infection (Fresquez et al. 2013; B. Thompson, personal communication, January 2022).

2.3.2 Destruction of Individual Salamanders

During periods of the year when Jemez Mountains Salamanders are on the soil surface, when conditions are warm and wet (generally July to October), they are vulnerable to injury and mortality from soil-disturbing activities, including operation of heavy equipment in core habitat. They also are at risk to be found and collected by people.

3.0 AEI General Description for the Jemez Mountains Salamander

The AEI consists of two areas—a core area and a buffer area. The core habitat is defined as suitable habitat where the Jemez Mountains Salamander occurs or could occur at LANL. The core habitat consists of sections of north-facing slope that contain the required microhabitat to support the Jemez Mountains Salamander. The buffer area is 100 m (328 ft) wide, extending outward from the edge of the core area.

3.1 Method for Identifying a Jemez Mountains Salamander AEI

The first step in identifying potential Jemez Mountains Salamander AEIs at LANL was to use a GIS to model habitat. Early modeling efforts by Hathcock (2008) identified areas of potential habitat, and that model was further refined. The following parameters were modeled in the GIS:

- Elevation: 2,150 m (7,000 ft) and above
- Slope: Greater than 20 degrees
- Aspect: north-facing +/- 20 degrees
- Land cover: Mixed conifer
- Land use: Undeveloped
- Modeled habitat is selected only if it is greater than five contiguous 30 × 30 m (98 × 98 ft) pixels in size

Once this habitat layer was developed, a second layer was modeled that examined the level of shade in the habitat, also known as an illumination index. Because the Jemez Mountains Salamander needs cool moist conditions, an illumination index model would further highlight areas where this habitat type could occur or further reinforce the areas selected by the GIS modeling. The illumination index describes the amount and extent of solar radiation that reaches the Earth's surface at a given point, taking into account

the topography that could cast shadows. The illumination model was developed using the 5 m (16 ft) resolution digital elevation model hillshade and using the Surface toolbox in ArcToolbox (Environmental Science Research Institute, Redlands, California) using the highest height of the sun on June 21 at 1:00 p.m., altitude of 74.4 and Azimuth of 178.4, when the sun would be at its maximum height. These procedures were based on work done by Reilly et al. (2009).

Once this modeling was complete, LANL biologists performed field validation to verify the suitability of the modeled habitat. The goal was to verify that mixed conifer was still the dominant cover class in the selected area. The GIS analysis used data from a landcover map created by McKown et al. (2003). Changes in habitat from fire and extreme drought effects have occurred since this landcover map was published. Because LANL is on the extreme edge of Jemez Mountains Salamander lower elevational range, a key component in this part of its range is soil moisture content. During field validation, evidence of a moist mixed conifer habitat versus a dry mixed conifer habitat was noted. One of the key indicators used to delimit areas of moist versus dry mixed conifer during the field validation was the presence of white fir (Evans et al. 2011) combined with a high canopy cover.

Field validation of the model occurred in May 2013, or decisions were based on earlier field visits to the sites from other projects. Each field validation consisted of LANL biologists walking down all of the modeled habitat polygons to look for the presence of indicator features. If a polygon of modeled habitat contained white fir, indicating a moist, wet conifer-type habitat, a high canopy closure, and other signs of high habitat quality such as dead logs, moss, or other areas that could be used as cover by the Jemez Mountains Salamander, then the polygon was marked for retention in the final core habitat. Polygons that did not contain the necessary habitat requirements were omitted.

After the field validation was complete, the final core habitat boundaries were hand-digitized using ArcGIS (Environmental Science Research Institute, Redlands, California) by LANL biologists in and around the validated modeled polygon and areas between polygons, if appropriate. The final identified core habitat at LANL occurs on the north-facing slopes of canyons. Toward the rim of the canyon, the core boundaries end where the mixed conifer ends. In the canyon bottoms, the core boundary extends to the edge of the stream channel. The upstream and downstream core boundaries end where the mixed conifer ends. A buffer habitat was extended around the core to a distance of 100 m (328 ft) outward. The LANL Fenton Hill satellite facility in the Jemez Mountains off New Mexico Highway 126 is on land leased to DOE by the Santa Fe National Forest. The entire footprint is considered to be developed core habitat for the Jemez Mountains Salamander because proposed critical habitat is adjacent to the facility.

3.2 Location and Number of Jemez Mountains Salamander AEIs

The identified Jemez Mountains Salamander core habitats were grouped by canyon system into AEIs, which contain contiguous and noncontiguous habitat areas. The largest contiguous section of habitat at LANL is in Los Alamos Canyon. Two noncontiguous areas of habitat are located in Two-mile Canyon, four in Pajarito Canyon, one contiguous area in Cañon de Valle, and the entire Fenton Hill footprint.

4.0 AEI Management

4.1 Overview

This AEI management section provides guidelines for LANL operations to reduce or eliminate the threats to the Jemez Mountains Salamander from habitat alterations that reduce habitat quality. Habitat

alterations are considered for all AEIs and for both core and buffer areas. Developed areas that have ongoing baseline levels of activities and are not suitable habitat for Jemez Mountains Salamander have different restrictions than undeveloped core or buffer areas. AEIs for different species may overlap, and an activity must meet the guidelines of all applicable site plans to be allowable. Protective measures are described as management practices that should be followed when working in AEIs.

4.2 Definition and Role of Occupancy in AEI Management

Occupancy simply refers to whether an AEI is occupied by the Jemez Mountains Salamander. The Los Alamos Canyon AEI is known to be occupied based on past surveys. Surveys for the Jemez Mountains Salamander are known to have a very low detection rate for occupied areas, so at LANL, all AEIs are assumed to be occupied at all times. If needed, site-specific surveys will be conducted by federally permitted LANL biologists.

4.3 Definition and Role of Developed Areas in AEI Management

Developed areas include all building structures, paved roads, improved gravel roads, and paved and unpaved parking lots. The majority of Jemez Mountains Salamander core habitat is in undeveloped areas except for the satellite facility at Fenton Hill and a small amount of habitat in Los Alamos Canyon where West Road crosses the habitat. Generally, developed areas will not have restrictions; however, some of the undeveloped sections within the footprint of Fenton Hill may have restrictions because they could contain Jemez Mountains Salamanders when they move to the surface between July and October. Any project that occurs within developed core habitat will be evaluated by LANL biologists for ESA compliance.

4.4 General Description of Core and Buffer Areas and Allowable Area Development

The purpose of buffer areas is to protect core areas from habitat degradation. The current levels of development in buffer and core areas represent baseline conditions for this site plan. No further development is allowed in the core area under the guidelines of this site plan. Any development in a buffer area will be reviewed by LANL biologists to ensure that there are no impacts to the core habitat.

4.5 Emergency Actions

Managers may activate emergency actions if safety and/or property is immediately threatened by something occurring within an AEI (e.g., wildfire, water line breakage). Contact a LANL biologist (<https://int.lanl.gov/environment/bio/index.shtml>), the Environmental Stewardship Group (505-665-8855), or the DOE/NNSA Los Alamos Field Office (505-667-7014) as soon as possible. If the emergency occurs outside of regular business hours, contact the Emergency Operations Support Center (505-667-2400); this office will then communicate with the appropriate LANL and DOE/NNSA Field Office personnel.

4.6 Introduction to AEI Management Guidelines

Section 4.7 provides the guidelines for habitat alterations and allowable activities in AEI core and buffer areas. It describes what and where habitat alterations are allowed under the guidelines of this site plan. If an activity does not meet the restrictions given in the guidelines, the activity must be individually reviewed for ESA compliance. This site plan provides only guidelines for the Jemez Mountains

Salamander AEIs. If an activity is desired in an area that has overlapping AEIs, all applicable site plans must be consulted. AEI maps show the location of all AEIs in an area. LANL biologists are available to help interpret site plans and answer questions (<https://int.lanl.gov/environment/bio/index.shtml>).

4.7 Definition of and Restrictions on Habitat Alterations

4.7.1 Definition of Habitat Alterations

Habitat alteration includes any action that alters the soil structure, vegetative components necessary to the species, water quality, or hydrology in undeveloped areas of an AEI. An actual activity may take place outside of the AEI and will be considered habitat alteration if consequences of the activity have effects inside the AEI core. Habitat alterations would also include soil pits for soil samples deeper than 15 cm (6 in.) using either hand or mechanized augers. Any activity that might disturb the soil will need to be reviewed by LANL biologists.

The habitat components most important to the Jemez Mountains Salamander include soil structure and vegetative structure. The forest structure within an area designated as a Jemez Mountains Salamander AEI is important because it provides the necessary moist, cool microclimate.

4.7.2 Fuels Management Practices to Reduce Wildfire Risk

One of the primary threats to the Jemez Mountains Salamander is wildfire (77 FR 56482), but they also require habitat with a high canopy cover, which makes fuels reduction challenging. Within undeveloped core areas, thinning trees to a level of 80 percent canopy cover or higher is approved. Trees may not be thinned below 80 percent canopy cover without further ESA review by LANL biologists. Large logs on the ground should be left in place and not chipped. Understory thinning that does not reduce total canopy cover below 80 percent is permitted. Large trees that are felled should be left as large logs on the ground. Smaller trees and understory shrubs that may be thinned should be dispersed and left onsite to aid in soil moisture retention. Thinning activities should not occur during the rainy season between July to October when the Jemez Mountains Salamander is found on the surface.

In buffer areas, thinning of trees may occur to the current LANL-approved prescription level (LAAO 2000). LANL biologists are available to provide guidance and mark trees for thinning (<https://int.lanl.gov/environment/bio/index.shtml>).

4.7.3 Utility Corridors

Habitat alterations, such as cutting down trees that threaten power lines, are allowed within 8 m (26 ft) of either side of an existing electrical utility line at LANL under existing guidelines and engineering controls (LANL 2019). This level is approved in all areas of an AEI. New utility lines and utility lines that require clearance of a right-of-way greater than 16 m (52 ft) total in core habitat must be individually reviewed for ESA compliance.

4.7.4 Restrictions on Habitat Alterations

Habitat alterations other than the fuels management practices and utility corridor maintenance described above are not allowed in undeveloped core areas under the guidelines of this site plan. If a project or activity is planned that would alter habitat in an undeveloped core area, it must be individually evaluated

for ESA compliance. Habitat alterations in buffer areas must be reviewed by LANL biologists to ensure that there are no impacts to core habitat.



V. ACRONYMS AND ABBREVIATIONS

Acronym	Definition
ac	acre
AEI	area of environmental interest
Bd	Batrachochytrium dendrobatidis (Chytrid Fungus)
BMP	Best management practices
cm	centimeter
DARHT	Dual-Axis Radiographic Hydrodynamic Test Facility
dB	decibel
dB(A)	A-weighted decibel
dB(C)	C-weighted decibel
DDT	(dichloro-diphenyl-trichloroethane)
DOE	U.S. Department of Energy
ESA	Endangered Species Act of 1973
fc	foot -candles
FR	Federal Register
ft	feet
g	gram
GIS	geographic information system
ha	hectare
HMP	Threatened and Endangered Species Habitat Management Plan
HVAC	heating, ventilation, and air conditioning
in.	inch
kg	kilogram
LANL	Los Alamos National Laboratory
m	meter
mi	mile
NEPA	National Environmental Policy Act
NNSA	National Nuclear Security Administration
oz	ounce
PCBs	polychlorinated biphenyls
TNT	trinitrotoluene(2,4,6-)
USFWS	U.S. Fish and Wildlife Service

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Appendix A: Supplemental Information

Table A-1. Percentage of Each Food Type Found in Mexican Spotted Owl Food Remains at LANL

Species	Relative Abundance
<i>Neotoma</i> spp.	26.22
<i>Peromyscus</i> spp.	10.22
<i>Microtus</i> spp.	4.44
Gophers	4.89
Bats	5.78
Chipmunks	0.89
Rabbits	12.89
Shrews	1.33
Small Mammal	1.33
Medium Mammal	1.78
Medium Bird	8.00
Small Bird	4.89
Nocturnal Birds	0.89
Reptiles	4.89
Arthropods	11.56

Table A-2. Preliminary Light Measurements (in fc) for the Mexican Spotted Owl Site Plan

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

Appendix A: Most recent map of all AEIs at LANL

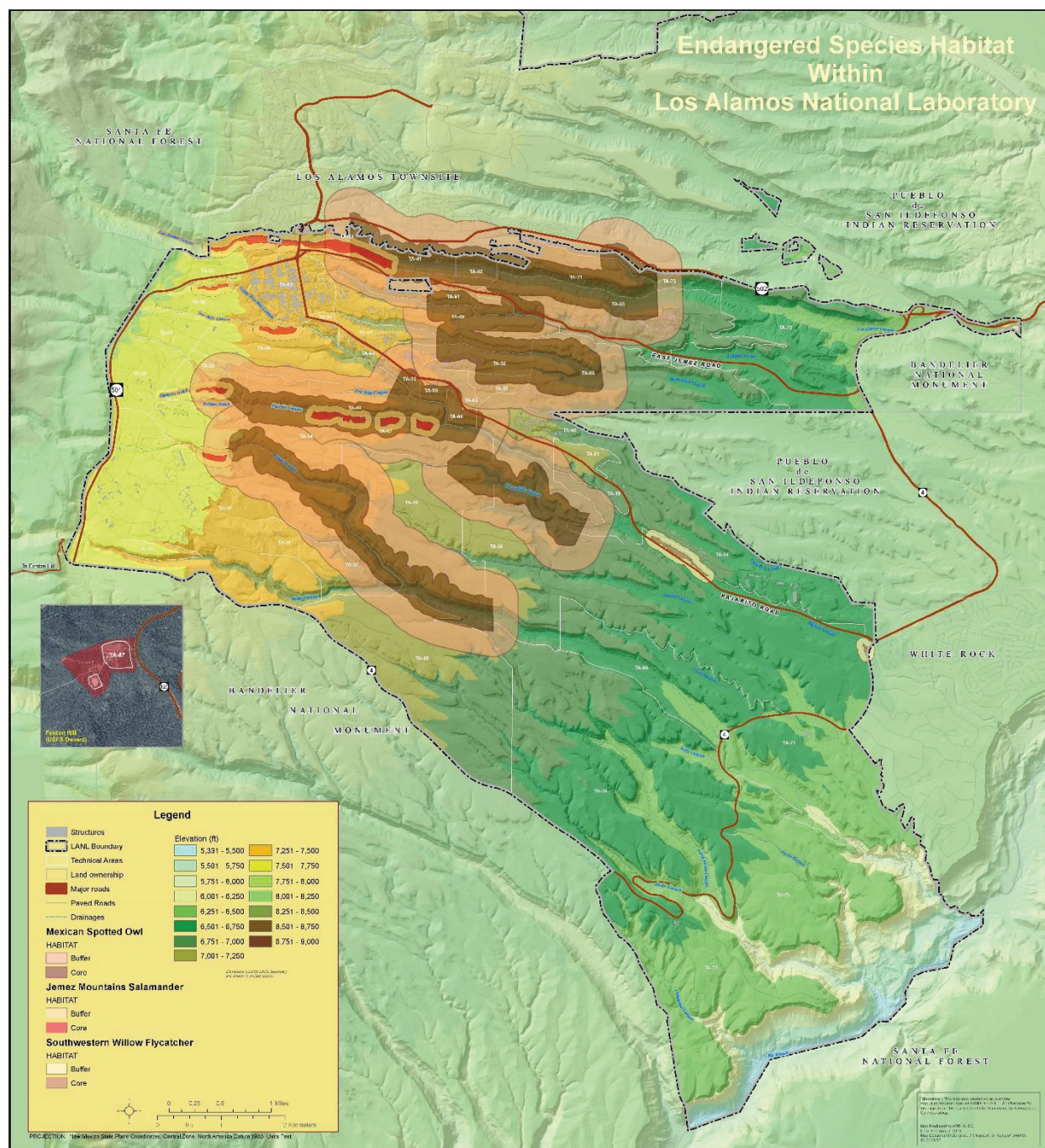


Figure A-1. Most recent map of all AEIs at LANL

ATTACHMENT 14: MSGP IPAC TRUST RESOURCES REPORT

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.

IPaC resource list

This report is an automatically generated list of species and other resources such as critical habitat (collectively referred to as *trust resources*) under the U.S. Fish and Wildlife Service's (USFWS) jurisdiction that are known or expected to be on or near the project area referenced below. The list may also include trust resources that occur outside of the project area, but that could potentially be directly or indirectly affected by activities in the project area. However, determining the likelihood and extent of effects a project may have on trust resources typically requires gathering additional site-specific (e.g., vegetation/species surveys) and project-specific (e.g., magnitude and timing of proposed activities) information.

Below is a summary of the project information you provided and contact information for the USFWS office(s) with jurisdiction in the defined project area. Please read the introduction to each section that follows (Endangered Species, Migratory Birds, USFWS Facilities, and NWI Wetlands) for additional information applicable to the trust resources addressed in that section.

Location


Catron and Grant counties, New Mexico



Local office

New Mexico Ecological Services Field Office

☎ (505) 346-2525

 (505) 346-2542

2105 Osuna Road Ne
Albuquerque, NM 87113-1001

NOT FOR CONSULTATION

Endangered species

This resource list is for informational purposes only and does not constitute an analysis of project level impacts.

The primary information used to generate this list is the known or expected range of each species. Additional areas of influence (AOI) for species are also considered. An AOI includes areas outside of the species range if the species could be indirectly affected by activities in that area (e.g., placing a dam upstream of a fish population even if that fish does not occur at the dam site, may indirectly impact the species by reducing or eliminating water flow downstream). Because species can move, and site conditions can change, the species on this list are not guaranteed to be found on or near the project area. To fully determine any potential effects to species, additional site-specific and project-specific information is often required.

Section 7 of the Endangered Species Act requires Federal agencies to "request of the Secretary information whether any species which is listed or proposed to be listed may be present in the area of such proposed action" for any project that is conducted, permitted, funded, or licensed by any Federal agency. A letter from the local office and a species list which fulfills this requirement can only be obtained by requesting an official species list from either the Regulatory Review section in IPaC (see directions below) or from the local field office directly.

For project evaluations that require USFWS concurrence/review, please return to the IPaC website and request an official species list by doing the following:

1. Draw the project location and click CONTINUE.
2. Click DEFINE PROJECT.
3. Log in (if directed to do so).
4. Provide a name and description for your project.
5. Click REQUEST SPECIES LIST.

Listed species¹ and their critical habitats are managed by the [Ecological Services Program](#) of the U.S. Fish and Wildlife Service (USFWS) and the fisheries division of the National Oceanic and Atmospheric Administration (NOAA Fisheries²).

Species and critical habitats under the sole responsibility of NOAA Fisheries are not shown on this list. Please contact [NOAA Fisheries](#) for [species under their jurisdiction](#).

-
1. Species listed under the Endangered Species Act are threatened or endangered; IPaC also shows species that are candidates, or proposed, for listing. See the [listing status page](#) for more information. IPaC only shows species that are regulated by USFWS (see FAQ).
 2. [NOAA Fisheries](#), also known as the National Marine Fisheries Service (NMFS), is an

office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

The following species are potentially affected by activities in this location:

Mammals

NAME	STATUS
Gray Wolf <i>Canis lupus</i> No critical habitat has been designated for this species.	Status Undefined
Mexican Long-nosed Bat <i>Leptonycteris nivalis</i> Wherever found No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/8203	Endangered
Mexican Wolf <i>Canis lupus baileyi</i> No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/3916	EXPN
New Mexico Meadow Jumping Mouse <i>Zapus hudsonius luteus</i> Wherever found This species only needs to be considered if the following condition applies: <ul style="list-style-type: none">• If project affects dense herbaceous riparian vegetation along waterways (stream, seep, canal/ditch). There is final critical habitat for this species. Your location does not overlap the critical habitat. https://ecos.fws.gov/ecp/species/7965	Endangered

Birds

NAME	STATUS
Mexican Spotted Owl <i>Strix occidentalis lucida</i> Wherever found There is final critical habitat for this species. Your location overlaps the critical habitat. https://ecos.fws.gov/ecp/species/8196	Threatened

Northern Aplomado Falcon *Falco femoralis*
septrionalis

EXPN

No critical habitat has been designated for this species.

<https://ecos.fws.gov/ecp/species/1923>

Southwestern Willow Flycatcher *Empidonax traillii*
extimus

Endangered

Wherever found

There is final critical habitat for this species. Your location overlaps the critical habitat.

<https://ecos.fws.gov/ecp/species/6749>

Yellow-billed Cuckoo *Coccyzus americanus*

Threatened

There is final critical habitat for this species. Your location does not overlap the critical habitat.

<https://ecos.fws.gov/ecp/species/3911>

Reptiles

NAME

STATUS

Narrow-headed Gartersnake *Thamnophis rufipunctatus*

Threatened

Wherever found

There is final critical habitat for this species. Your location does not overlap the critical habitat.

<https://ecos.fws.gov/ecp/species/2204>

Northern Mexican Gartersnake *Thamnophis eques*
megalops

Threatened

Wherever found

There is final critical habitat for this species. Your location does not overlap the critical habitat.

<https://ecos.fws.gov/ecp/species/7655>

Amphibians

NAME

STATUS

Chiricahua Leopard Frog *Rana chiricahuensis*

Threatened

Wherever found

There is final critical habitat for this species. Your location does not overlap the critical habitat.

<https://ecos.fws.gov/ecp/species/1516>

Fishes

NAME

STATUS

Beautiful Shiner *Cyprinella formosa*

Threatened

Wherever found

There is final critical habitat for this species. Your location does not overlap the critical habitat.

<https://ecos.fws.gov/ecp/species/7874>

Chihuahua Chub *Gila nigrescens*

Threatened

Wherever found

There is proposed critical habitat for this species.

<https://ecos.fws.gov/ecp/species/7156>

Gila Chub *Gila intermedia*

Endangered

Wherever found

There is final critical habitat for this species. Your location overlaps the critical habitat.

<https://ecos.fws.gov/ecp/species/51>

Gila Topminnow (incl. Yaqui) *Poeciliopsis occidentalis*

Endangered

Wherever found

No critical habitat has been designated for this species.

<https://ecos.fws.gov/ecp/species/1116>

Gila Trout *Oncorhynchus gilae*

Threatened

Wherever found

No critical habitat has been designated for this species.

<https://ecos.fws.gov/ecp/species/781>

Loach Minnow *Tiaroga cobitis*

Endangered

Wherever found

There is final critical habitat for this species. Your location overlaps the critical habitat.

<https://ecos.fws.gov/ecp/species/6922>

Spikedace *Meda fulgida*

Endangered

Wherever found

There is final critical habitat for this species. Your location overlaps the critical habitat.

<https://ecos.fws.gov/ecp/species/6493>

Insects

NAME	STATUS
Monarch Butterfly <i>Danaus plexippus</i> Wherever found No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/9743	Candidate

Flowering Plants

NAME	STATUS
Zuni Fleabane <i>Erigeron rhizomatus</i> Wherever found No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/5700	Threatened

Critical habitats

Potential effects to critical habitat(s) in this location must be analyzed along with the endangered species themselves.

This location overlaps the critical habitat for the following species:

NAME	TYPE
Gila Chub <i>Gila intermedia</i> https://ecos.fws.gov/ecp/species/51#crithab	Final
Loach Minnow <i>Tiaroga cobitis</i> https://ecos.fws.gov/ecp/species/6922#crithab	Final
Mexican Spotted Owl <i>Strix occidentalis lucida</i> https://ecos.fws.gov/ecp/species/8196#crithab	Final
Southwestern Willow Flycatcher <i>Empidonax traillii</i> <i>extimus</i> https://ecos.fws.gov/ecp/species/6749#crithab	Final
Spikedace <i>Meda fulgida</i> https://ecos.fws.gov/ecp/species/6493#crithab	Final

Migratory birds

Certain birds are protected under the Migratory Bird Treaty Act¹ and the Bald and Golden Eagle Protection Act².

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats should follow appropriate regulations and consider implementing appropriate conservation measures, as described [below](#).

1. The [Migratory Birds Treaty Act](#) of 1918.
2. The [Bald and Golden Eagle Protection Act](#) of 1940.

Additional information can be found using the following links:

- Birds of Conservation Concern <https://www.fws.gov/program/migratory-birds/species>
- Measures for avoiding and minimizing impacts to birds <https://www.fws.gov/library/collections/avoiding-and-minimizing-incidental-take-migratory-birds>
- Nationwide conservation measures for birds <https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf>

The birds listed below are birds of particular concern either because they occur on the [USFWS Birds of Conservation Concern](#) (BCC) list or warrant special attention in your project location. To learn more about the levels of concern for birds on your list and how this list is generated, see the FAQ [below](#). This is not a list of every bird you may find in this location, nor a guarantee that every bird on this list will be found in your project area. To see exact locations of where birders and the general public have sighted birds in and around your project area, visit the [E-bird data mapping tool](#) (Tip: enter your location, desired date range and a species on your list). For projects that occur off the Atlantic Coast, additional maps and models detailing the relative occurrence and abundance of bird species on your list are available. Links to additional information about Atlantic Coast birds, and other important information about your migratory bird list, including how to properly interpret and use your migratory bird report, can be found [below](#).

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, click on the PROBABILITY OF PRESENCE SUMMARY at the top of your list to see when these birds are most likely to be present and breeding in your project area.

NAME	BREEDING SEASON
Black-chinned Sparrow <i>Spizella atrogularis</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9447	Breeds Apr 15 to Jul 31

Black-throated Gray Warbler <i>Dendroica nigrescens</i> This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA	Breeds May 1 to Jul 20
Evening Grosbeak <i>Coccothraustes vespertinus</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds May 15 to Aug 10
Golden Eagle <i>Aquila chrysaetos</i> This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities. https://ecos.fws.gov/ecp/species/1680	Breeds Jan 1 to Aug 31
Grace's Warbler <i>Dendroica graciae</i> This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA	Breeds May 20 to Jul 20
Long-eared Owl <i>asio otus</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/3631	Breeds Mar 1 to Jul 15
Olive-sided Flycatcher <i>Contopus cooperi</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/3914	Breeds May 20 to Aug 31
Pinyon Jay <i>Gymnorhinus cyanocephalus</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9420	Breeds Feb 15 to Jul 15
Red-faced Warbler <i>Cardellina rubrifrons</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds May 10 to Jul 15
Rufous-winged Sparrow <i>Aimophila carpalis</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds Jun 15 to Sep 30

Virginia's Warbler *Vermivora virginiae*

Breeds May 1 to Jul 31

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

<https://ecos.fws.gov/ecp/species/9441>

NOT FOR CONSULTATION

Probability of Presence Summary

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read and understand the FAQ "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

Probability of Presence (■)

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. (A year is represented as 12 4-week months.) A taller bar indicates a higher probability of species presence. The survey effort (see below) can be used to establish a level of confidence in the presence score. One can have higher confidence in the presence score if the corresponding survey effort is also high.

How is the probability of presence score calculated? The calculation is done in three steps:

1. The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.
2. To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is $0.25/0.25 = 1$; at week 20 it is $0.05/0.25 = 0.2$.
3. The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

To see a bar's probability of presence score, simply hover your mouse cursor over the bar.

Breeding Season (■)

Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

Survey Effort (|)

Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps. The number of surveys is expressed as a range, for example, 33 to 64 surveys.

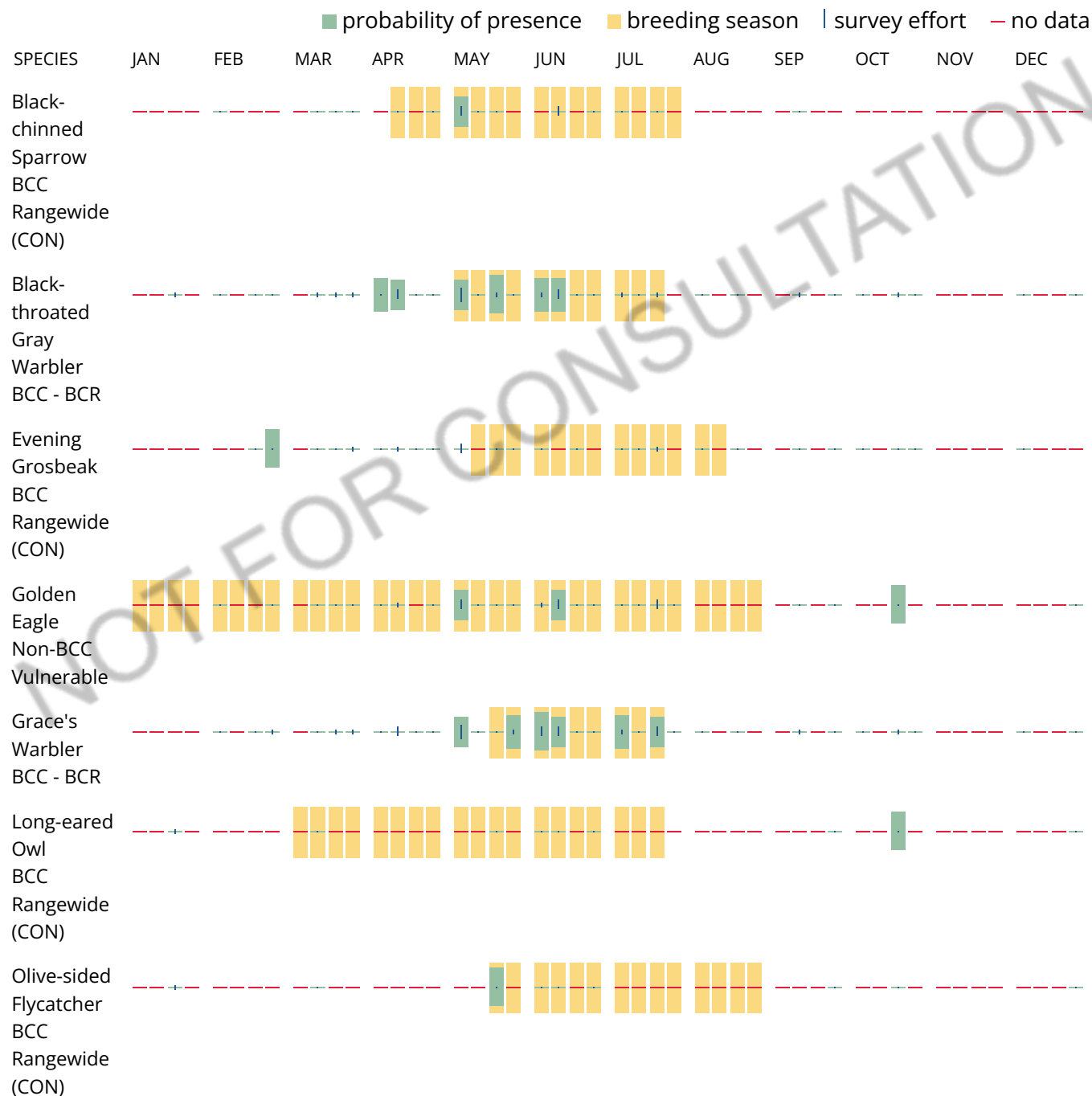
To see a bar's survey effort range, simply hover your mouse cursor over the bar.

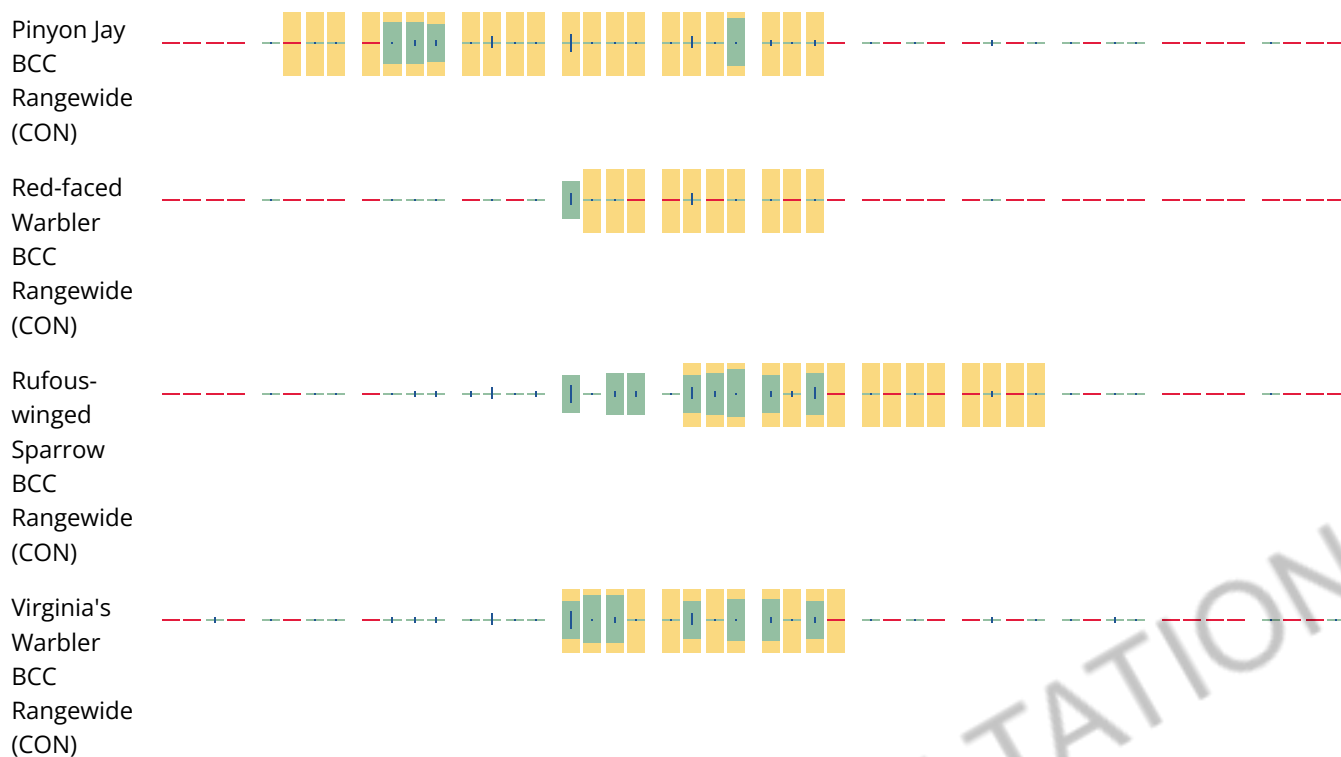
No Data (—)

A week is marked as having no data if there were no survey events for that week.

Survey Timeframe

Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.





Tell me more about conservation measures I can implement to avoid or minimize impacts to migratory birds.

[Nationwide Conservation Measures](#) describes measures that can help avoid and minimize impacts to all birds at any location year round. Implementation of these measures is particularly important when birds are most likely to occur in the project area. When birds may be breeding in the area, identifying the locations of any active nests and avoiding their destruction is a very helpful impact minimization measure. To see when birds are most likely to occur and be breeding in your project area, view the Probability of Presence Summary. [Additional measures](#) or [permits](#) may be advisable depending on the type of activity you are conducting and the type of infrastructure or bird species present on your project site.

What does IPaC use to generate the list of migratory birds that potentially occur in my specified location?

The Migratory Bird Resource List is comprised of USFWS [Birds of Conservation Concern \(BCC\)](#) and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by the [Avian Knowledge Network \(AKN\)](#). The AKN data is based on a growing collection of [survey, banding, and citizen science datasets](#) and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle ([Eagle Act](#) requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the [Rapid Avian Information Locator \(RAIL\) Tool](#).

What does IPaC use to generate the probability of presence graphs for the migratory birds potentially occurring in my specified location?

The probability of presence graphs associated with your migratory bird list are based on data provided by the [Avian Knowledge Network \(AKN\)](#). This data is derived from a growing collection of [survey, banding, and citizen science datasets](#).

Probability of presence data is continuously being updated as new and better information becomes available. To learn more about how the probability of presence graphs are produced and how to interpret them, go the Probability of Presence Summary and then click on the "Tell me about these graphs" link.

How do I know if a bird is breeding, wintering or migrating in my area?

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating or year-round), you may query your location using the [RAIL Tool](#) and look at the range maps provided for birds in your area at the bottom of the profiles provided for each bird in your results. If a bird on your migratory bird species list has a breeding season associated with it, if that bird does occur in your project area, there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

What are the levels of concern for migratory birds?

Migratory birds delivered through IPaC fall into the following distinct categories of concern:

1. "BCC Rangewide" birds are [Birds of Conservation Concern](#) (BCC) that are of concern throughout their range anywhere within the USA (including Hawaii, the Pacific Islands, Puerto Rico, and the Virgin Islands);
2. "BCC - BCR" birds are BCCs that are of concern only in particular Bird Conservation Regions (BCRs) in the continental USA; and
3. "Non-BCC - Vulnerable" birds are not BCC species in your project area, but appear on your list either because of the [Eagle Act](#) requirements (for eagles) or (for non-eagles) potential susceptibilities in offshore areas from certain types of development or activities (e.g. offshore energy development or longline fishing).

Although it is important to try to avoid and minimize impacts to all birds, efforts should be made, in particular, to avoid and minimize impacts to the birds on this list, especially eagles and BCC species of rangewide concern. For more information on conservation measures you can implement to help avoid and minimize migratory bird impacts and requirements for eagles, please see the FAQs for these topics.

Details about birds that are potentially affected by offshore projects

For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the [Northeast Ocean Data Portal](#). The Portal also offers data and information about other taxa besides birds that may be helpful to you in your project review. Alternately, you may download the bird model results files underlying the portal maps through the [NOAA NCCOS Integrative Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf](#) project webpage.

Bird tracking data can also provide additional details about occurrence and habitat use throughout the year, including migration. Models relying on survey data may not include this information. For additional information on marine bird tracking data, see the [Diving Bird Study](#) and the [nanotag studies](#) or contact [Caleb Spiegel](#) or [Pam Loring](#).

What if I have eagles on my list?

If your project has the potential to disturb or kill eagles, you may need to [obtain a permit](#) to avoid violating the Eagle Act should such impacts occur.

Proper Interpretation and Use of Your Migratory Bird Report

The migratory bird list generated is not a list of all birds in your project area, only a subset of birds of priority concern. To learn more about how your list is generated, and see options for identifying what other birds may be in your project area, please see the FAQ "What does IPaC use to generate the migratory birds potentially occurring in my specified location". Please be aware this report provides the "probability of presence" of birds within the 10 km grid cell(s) that overlap your project; not your exact project footprint. On the graphs provided, please also look carefully at the survey effort (indicated by the black vertical bar) and for the existence of the "no data" indicator (a red horizontal bar). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort bar or no data bar means a lack of data and, therefore, a lack of certainty about presence of the species. This list is not perfect; it is simply a starting point for identifying what birds of concern have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list helps you know what to look for to confirm presence, and helps guide you in knowing when to implement conservation measures to avoid or minimize potential impacts from your project activities, should presence be confirmed. To learn more about conservation measures, visit the FAQ "Tell me about conservation measures I can implement to avoid or minimize impacts to migratory birds" at the bottom of your migratory bird trust resources page.

Coastal Barrier Resources System

Projects within the [John H. Chafee Coastal Barrier Resources System](#) (CBRS) may be subject to the restrictions on Federal expenditures and financial assistance and the consultation requirements of the Coastal Barrier Resources Act (CBRA) (16 U.S.C. 3501 et seq.). For more information, please contact the local [Ecological Services Field Office](#) or visit the [CBRA Consultations website](#). The CBRA website provides tools such as a flow chart to help determine whether consultation is required and a template to facilitate the consultation process.

CBRA information is not available at this time

This can happen when the CBRS map service is unavailable, or for very large projects that intersect many coastal areas. Try again, or visit the [CBRS map](#) to view coastal barriers at

this location.

Data limitations

The CBRS boundaries used in IPaC are representations of the controlling boundaries, which are depicted on the [official CBRS maps](#). The boundaries depicted in this layer are not to be considered authoritative for in/out determinations close to a CBRS boundary (i.e., within the "CBRS Buffer Zone" that appears as a hatched area on either side of the boundary). For projects that are very close to a CBRS boundary but do not clearly intersect a unit, you may contact the Service for an official determination by following the instructions here: <https://www.fws.gov/service/coastal-barrier-resources-system-property-documentation>

Data exclusions

CBRS units extend seaward out to either the 20- or 30-foot bathymetric contour (depending on the location of the unit). The true seaward extent of the units is not shown in the CBRS data, therefore projects in the offshore areas of units (e.g., dredging, breakwaters, offshore wind energy or oil and gas projects) may be subject to CBRA even if they do not intersect the CBRS data. For additional information, please contact CBRA@fws.gov.

Facilities

National Wildlife Refuge lands

Any activity proposed on lands managed by the [National Wildlife Refuge](#) system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

There are no refuge lands at this location.

Fish hatcheries

There are no fish hatcheries at this location.

Wetlands in the National Wetlands

Inventory (NWI)

Impacts to [NWI wetlands](#) and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local [U.S. Army Corps of Engineers District](#).

Wetland information is not available at this time

This can happen when the National Wetlands Inventory (NWI) map service is unavailable, or for very large projects that intersect many wetland areas. Try again, or visit the [NWI map](#) to view wetlands at this location.

Data limitations

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

Data exclusions

Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and nearshore coastal waters. Some deepwater reef communities (coral or tubercid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

Data precautions

Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state,

or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate Federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.

NOT FOR CONSULTATION

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

EPC-CP-PIP-2101

Revision: 1



Effective Date: 10/20/2021

Next Review Date: 10/20/2024

Environment, Safety, Health, Quality, Safeguards and Security Directorate
Environmental Protection and Compliance Division – Compliance Programs Group
Program Implementation Plan (PIP)

NPDES Multi-Sector General Permit

Document Owner/Subject Matter Expert:

Name:	Organization:	Signature:	Date:
Terrill W. Lemke	EPC-CP	Signature on File	10-19-21

Derivative Classifier: ☒ **Unclassified** or ☐ _____

Name:	Organization:	Signature:	Date:
Steven E. Wolfel	EPC-CP	Signature on File	10-20-21

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Holly L. Wheeler	EPC-CP	Signature on File	10-20-21
EPC-CP Team Leader:	Organization:	Signature:	Date:
Terrill W. Lemke, Team Leader	EPC-CP	Signature on File	10-19-21
EPC-CP Group Leader:	Organization:	Signature:	Date:
Taunia J. Sandquist, Group Leader	EPC-CP	Signature on File	10-20-21

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NPDES Multi-Sector General Permit	No: EPC-CP-PIP-2101	Page 2 of 35
	Revision: 1	Effective Date: 10/20/2021

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.

NPDES Multi-Sector General Permit	No: EPC-CP-PIP-2101	Page 3 of 35
	Revision: 1	Effective Date: 10/20/2021

Table of Contents

	Table of Contents.....	3
1.0	Purpose	5
2.0	Authority and Applicability	5
2.1	Authority	5
2.2	Applicability	5
3.0	Program Scope.....	5
3.1	Requirements	5
3.2	Description of Work Activities.....	6
3.3	Graded Approach	6
3.3.1	Management Level Determination.....	6
3.3.2	Software Risk Levels.....	6
4.0	Program-Specific Quality Assurance Requirements and Implementing Work Activities	6
4.1	Criterion 1 – Management/Program.....	6
4.1.1	Program Goals.....	6
4.1.2	Roles and Responsibilities.....	7
4.1.2.1	Group Leader	7
4.1.2.2	Storm Water Permitting/Compliance Team Leader	7
4.1.2.3	MSGP Program Lead	8
4.1.2.4	Storm Water Tracking System/Discharge Monitoring Report Manager	9
4.1.2.5	MSGP Personnel	9
4.1.2.6	EIM Database Administrator	10
4.1.2.7	Corrective Action Reporting Database Administrator	10
4.1.2.8	Maintenance Connection Database Administrator	10
4.1.3	Internal Interfaces.....	10
4.1.3.1	Facility Operations Directors	10
4.1.3.2	Permitted Industrial Activity Facility Owner/Operator	11
4.1.3.3	Deployed Environmental Professional	11
4.1.3.4	Sample Management Office (SMO).....	11
4.1.4	External Interfaces	12
4.1.4.1	Environmental Protection Agency.....	12
4.1.4.2	New Mexico Environmental Department.....	12
4.1.4.3	National Nuclear Safety Administration/Los Alamos Field Office	12
4.1.4.4	Analytical Laboratory Contractors.....	12
4.2	Criterion 2 – Management/Personnel Training and Qualification.....	13
4.3	Criterion 3 – Management/Quality Improvement.....	13
4.3.1	Performance Reporting.....	13
4.3.2	Corrective Actions.....	14
4.4	Criterion 4 – Management/Documents and Records	14
4.4.1	Document Control.....	14
4.4.2	Procedures	14
4.4.3	Electronic Media	15
4.4.4	Records Management.....	15

NPDES Multi-Sector General Permit	No: EPC-CP-PIP-2101	Page 4 of 35
	Revision: 1	Effective Date: 10/20/2021

4.5	Criterion 5 – Performance/Work Processes.....	16
4.5.1	Work Processes.....	17
4.5.2	Stormwater Pollution Prevention Plans.....	17
4.5.3	Inspections	17
4.5.4	Stormwater Corrective Actions.....	18
4.5.4.1	Responding to Water Quality Exceedances.....	18
4.5.5	Stormwater Monitoring	18
4.5.5.1	Quality Control Samples	20
4.5.6	Reporting	21
4.5.6.1	Discharge Monitoring Reports.....	21
4.5.6.2	Annual Reports	22
4.6	Criterion 6 – Performance/Design	22
4.7	Criterion 7 – Performance/Procurement.....	23
4.8	Criterion 8 – Performance/Inspection and Acceptance Testing	23
4.9	Criterion 9 – Assessment/Management Assessment	23
4.10	Criterion 10 – Assessment/Independent Assessment	23
4.11	Suspect/Counterfeit Items Prevention	23
4.12	Safety Software Quality Assurance Requirements for Nuclear Facilities.....	24
5.0	Implementation	24
6.0	Training	24
7.0	Documents and Records.....	24
8.0	Definitions and Acronyms.....	24
9.0	References	25
10.0	Appendices.....	27
11.0	Attachments	27
12.0	Contact Information	27
	Appendix A: NPDES Multi-Sector General Permit Program Management Level Determination, MLDS- TA-60-324 Rev. 0.....	28
	Attachment 1: Summary of QA Requirements and Program-Level (Local) Work Practices.....	32
	Attachment 2: MSGP Facilities Associated with Industrial Activities	35

NPDES Multi-Sector General Permit	No: EPC-CP-PIP-2101	Page 5 of 35
	Revision: 1	Effective Date: 10/20/2021

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*

NPDES Multi-Sector General Permit	No: EPC-CP-PIP-2101	Page 6 of 35
	Revision: 1	Effective Date: 10/20/2021

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.

NPDES Multi-Sector General Permit	No: EPC-CP-PIP-2101	Page 7 of 35
	Revision: 1	Effective Date: 10/20/2021

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.

NPDES Multi-Sector General Permit	No: EPC-CP-PIP-2101	Page 8 of 35
	Revision: 1	Effective Date: 10/20/2021

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

4.1.2.3 MSGP Program Lead

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

NPDES Multi-Sector General Permit	No: EPC-CP-PIP-2101	Page 9 of 35
	Revision: 1	Effective Date: 10/20/2021

- 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.

NPDES Multi-Sector General Permit	No: EPC-CP-PIP-2101	Page 10 of 35
	Revision: 1	Effective Date: 10/20/2021

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

NPDES Multi-Sector General Permit	No: EPC-CP-PIP-2101	Page 11 of 35
	Revision: 1	Effective Date: 10/20/2021

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

NPDES Multi-Sector General Permit	No: EPC-CP-PIP-2101	Page 12 of 35
	Revision: 1	Effective Date: 10/20/2021

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.

NPDES Multi-Sector General Permit	No: EPC-CP-PIP-2101	Page 13 of 35
	Revision: 1	Effective Date: 10/20/2021

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/Personnel Training and Qualification		
Key Personnel/Role	Qualification Standard	Program Specific Training
Storm Water Permitting/Compliance Team Leader	<ul style="list-style-type: none"> EPC-CP Manager Qualification Standard EPC-CP Group Qualification Standard EPC-CP-QS-2005, Stormwater Inspector Qualification Standard EPC-CP-QS-2006, Stormwater Pollution Prevention Plan Preparer Qualification Standard EPC-CP-QS-2007, Stormwater Design Reviewer Qualification Standard 	EPC-CP-PIP-2101
MSGP Program Lead, MSGP Personnel	<ul style="list-style-type: none"> EPC-CP Group Qualification Standard EPC-CP-QS-2005, Stormwater Inspector Qualification Standard EPC-CP-QS-2006, Stormwater Pollution Prevention Plan Preparer Qualification Standard EPC-CP-QS-2007, Stormwater Design Reviewer Qualification Standard* 	
Discharge Monitoring Report Manager	<ul style="list-style-type: none"> EPC-CP Group Qualification Standard 	
Database Administrator	<ul style="list-style-type: none"> EPC-CP Group Qualification Standard 	*
* As required by job duties.		

4.3 Criterion 3 – Management/Quality Improvement

The MSGP Program adheres to the EPC-CP-QAP-001 principles of problem prevention and continuous improvement. The MSGP Program Lead will evaluate improvement opportunities identified by trending and reporting.

4.3.1 Performance Reporting

Personnel involved in activities associated with the MSGP Program are encouraged to provide periodic updates, either verbal or written, to the MSGP Program Lead. The program uses these updates to determine areas that require attention and corrective actions.

NPDES Multi-Sector General Permit	No: EPC-CP-PIP-2101	Page 14 of 35
	Revision: 1	Effective Date: 10/20/2021

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*.

NPDES Multi-Sector General Permit	No: EPC-CP-PIP-2101	Page 15 of 35
	Revision: 1	Effective Date: 10/20/2021

4.4.3 Electronic Media

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

EIM (<https://www.locusfocus.com/eim/eim.cfm>) is a cloud-based database information system designed in part to support the information management needs of the Laboratory's MSGP. MSGP support includes analytical data management, stormwater discharge monitoring reporting, Geographic Information System (GIS) development, and other information management activities as needed.

Maintenance Connection

(https://www.maintenanceconnection.com/mcv18/online/mc_login_form.asp) is a cloud-based computerized maintenance management system, or CMMS, used to manage MSGP field activities such as monitoring station installation and removal, inspections, maintenance, sample collection and retrieval, visual inspections, and information management change controls for data stored in Maintenance Connection and in the SWTS Module in EIM.

The MSGP Corrective Action Report (MSGP CAR) database (<https://epc.lanl.gov>) is a Laboratory-managed Oracle APEX database and associated administration module that tracks corrective action data.

4.4.4 Records Management

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

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

NPDES Multi-Sector General Permit	No: EPC-CP-PIP-2101	Page 16 of 35
	Revision: 1	Effective Date: 10/20/2021

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

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

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

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

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

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

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

4.5 Criterion 5 – Performance/Work Processes

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

NPDES Multi-Sector General Permit	No: EPC-CP-PIP-2101	Page 17 of 35
	Revision: 1	Effective Date: 10/20/2021

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*.

NPDES Multi-Sector General Permit	No: EPC-CP-PIP-2101	Page 18 of 35
	Revision: 1	Effective Date: 10/20/2021

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

NPDES Multi-Sector General Permit	No: EPC-CP-PIP-2101	Page 19 of 35
	Revision: 1	Effective Date: 10/20/2021

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.

NPDES Multi-Sector General Permit	No: EPC-CP-PIP-2101	Page 20 of 35
	Revision: 1	Effective Date: 10/20/2021

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

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

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

- EPC-CP-TP-2102, *Installing, Setting Up, and Operating ISCO Samplers*;
- EPC-CP-TP-2103, *Inspecting Stormwater Runoff Samplers and Retrieving Samples for the MSGP*;
- EPC-CP-QP-2104, *Installing, Inspecting, and Maintaining MSGP Single Stage Samplers*; and
- EPC-CP-QP-2106, *Processing MSGP Stormwater Samples*.

Table 4.5.5-1 Chain of Custody

Activity	Responsibility
Sample collection and preparation	All persons (other than analytical personnel) performing sample preparation and collection are trained to sample collection procedures and adhere to the chain of custody requirements therein.
Analysis	Analytical laboratories performing sample analysis maintain sufficient procedures to ensure positive control of samples as specified in the existing Statement of Work.
Storage/Disposal	Analytical laboratories maintain/retained samples and/or sample portions under chain of custody until reanalysis, or ultimate disposal.

The EPC-CP SMO is the central point of contact for analytical laboratory selection, evaluations, sample submittal, and data return. See Section 4.1.3.4 for SMO roles and responsibilities.

4.5.5.1 Quality Control Samples

The planning and coordination of each sampling event and/or monitoring period may include the following quality control (QC) samples to detect potential sources of sample contamination or to track analytical laboratory performance:

NPDES Multi-Sector General Permit	No: EPC-CP-PIP-2101	Page 21 of 35
	Revision: 1	Effective Date: 10/20/2021

- **Equipment Rinsate Blank:** A sample of analyte-free water that is prepared in the field using the appropriate sampling equipment with an aliquot of deionized (DI) or certified contaminant-free water that is processed using applicable field equipment in the same manner as the samples.
- **Field Duplicates:** Two samples taken from and representative of the same population and carried through all steps of the sampling and analytical procedures in an identical manner. Duplicate samples are used to assess variance of the total method including sampling and analysis.
- **Trip Blank:** Samples of analyte-free water that are prepared in the laboratory using DI or certified contaminant-free water and preserved as required. Trip blanks are used for volatile organic compound (VOC) samples only. Trip blanks are transported, unopened, to the field with other sample containers, handled like environmental samples and shipped to the analytical laboratory for analysis with the collected samples. VOC samples are not a requirement of the MSGP.
- **Field Blank:** A sample of analyte-free water that is prepared in the field using a clean sample container.

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

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

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

4.5.6 Reporting

4.5.6.1 Discharge Monitoring Reports

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

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

NPDES Multi-Sector General Permit	No: EPC-CP-PIP-2101	Page 22 of 35
	Revision: 1	Effective Date: 10/20/2021

may submit the DMRs for NPDES Permits. NetDMR roles and permissions for these functions are described on the NetDMR Support Portal (<https://netdmr.zendesk.com/>).

4.5.6.2 Annual Reports

The Laboratory is required to submit an annual report electronically to the EPA by January 30th for each year of permit coverage that includes a summary of the findings from inspections and corrective action documentation. The documentation includes the following:

- Information relative to whether a waiver was granted, by whom, and the date the waiver was approved;
- The NPDES Permit Tracking Number;
- A summary of the past year's routine facility inspection documentation (see Part 3.1.6 of the MSGP);
- A summary of your past years quarterly visual assessment documentation (see Part 3.2.3 of the MSGP);
- A summary of the corrective action and/or AIM documentation over the past year (see Parts 5.1.3 and 5.3 of the MSGP); and

The annual report is submitted electronically via the NetMSGP program service on EPA's CDX website. The annual report may be submitted on a paper form (EPA Form 6100-28) if the Laboratory has been granted a waiver from electronic reporting by the applicable EPA Regional Office.

4.6 Criterion 6 – Performance/Design

Design activities are conducted and reviewed in accordance with:

- PD340, *Conduct of Engineering and Configuration Management for Facility Work*;
- P341, *Facility Engineering Processes Manual* and;
- P342, *Engineering Standards*.

Design standards under this program include, but are not limited to temporary and permanent SCMs, conditions requiring corrective action, and stormwater monitoring support.

Design inputs are specified and approved on a timely basis for making design decisions. Inputs contain the level of detail required to permit the performance of design activities correctly.

Formal design reviews, including design verifications and evaluation of design changes, are conducted to ensure that the design input is correctly incorporated into the design output. Changes to design will undergo the same review as the original design. A Professional Engineer must stamp engineered designs.

NPDES Multi-Sector General Permit	No: EPC-CP-PIP-2101	Page 23 of 35
	Revision: 1	Effective Date: 10/20/2021

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)*.

NPDES Multi-Sector General Permit	No: EPC-CP-PIP-2101	Page 24 of 35
	Revision: 1	Effective Date: 10/20/2021

4.12 Safety Software Quality Assurance Requirements for Nuclear Facilities

This section is only applicable for nuclear facilities in accordance with DOE Order 414.1D, Chg.2, Attachment 1 *Contractor Requirements Document* (CRD), Section 1.b. As such, this section is not applicable to the NPDES MSGP Program.

5.0 IMPLEMENTATION

The requirements of this document are effective on the date provided on the cover page.

6.0 TRAINING

Training for EPC-CP MSGP employees, DEPs, and subcontractors are assigned and tracked using UTrain, the institutional training management system. The required training associated with this document is as follows.

- Self-study of this procedure (required reading) is required for all MSGP Program employees, including subcontractors, and some DEPs depending on their assigned job duties.

7.0 DOCUMENTS AND RECORDS

The Environment, Safety, Health, Quality, Safeguards, and Security-Document Control and Records Management is the Office of Record for this document and maintains the administrative record. Documents and records are maintained in accordance with PD1020, *Document Control and Records Management*; ESH-AP-007, *Document Control*; P1020-1, *Laboratory Records Management*, and ESH-AP-006, *Records Management Procedure*.

8.0 DEFINITIONS AND ACRONYMS

Use the LANL *Definition of Terms* and those in SD330.

Use the LANL *Acronym Master List*.

BMP	Best Management Practice
CDX	Central Data Exchange
CFR	Code of Federal Regulations
CRD	Contractor Requirements Document
DEP	Deployed Environmental Professional
DI	Deionized
DMR	Discharge Monitoring Report
DOE	Department of Energy
EIM	Environmental Information Management
EPA	Environmental Protection Agency
EPC-CP	Environmental Protection and Compliance-Compliance Programs
FOD	Facility Operations Director
LANL	Los Alamos National Laboratory

NPDES Multi-Sector General Permit	No: EPC-CP-PIP-2101	Page 25 of 35
	Revision: 1	Effective Date: 10/20/2021

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*

NPDES Multi-Sector General Permit	No: EPC-CP-PIP-2101	Page 26 of 35
	Revision: 1	Effective Date: 10/20/2021

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

NPDES Multi-Sector General Permit	No: EPC-CP-PIP-2101	Page 27 of 35
	Revision: 1	Effective Date: 10/20/2021

EPC-CP-QP-2108, *MSGP Routine Facility Inspections*

EPC-CP-QP-2110, *MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance*

EPC-CP-TP-2102, *Installing, Setting Up, and Operating ISCO Samplers*

EPC-CP-TP-2103, *Inspecting Stormwater Runoff Samplers and Retrieving Samples for the MSGP*

10.0 APPENDICIES

Appendix A: NPDES Multi-Sector General Permit Program Management Level Determination, MLDS-TA-60-324 Rev. 0

11.0 ATTACHMENTS

Attachment 1: Summary of QA Requirements and Program-Level (Local) Work Practices

Attachment 2: MSGP Facilities Associated with Industrial Activity

12.0 CONTACT INFORMATION

Entity: EPC-CP Storm Water Permitting/Compliance Team Leader

Name: Terrill W. Lemke

Telephone: (505) 665-2397

E-mail: tlemke@lanl.gov

Website: <https://int.lanl.gov/org/ddops/aladeshqss/environmental-waste-programs/compliance-programs/index.shtml>

NPDES Multi-Sector General Permit	No: EPC-CP-PIP-2101	Page 28 of 35
	Revision: 1	Effective Date: 10/20/2021

**Appendix A: NPDES Multi-Sector General Permit Program Management Level Determination,
MLDS-TA-60-324 Rev. 0**

(Page 1 of 4)



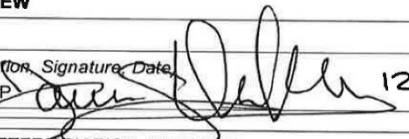
**Multi-Sector Conduct of Engineering
NPDES Construction General Permit Program
Management Level Determination**

MLDS No.: MLDS-TA-60-324

Rev.: 0

Page 1 of

1.0 SYSTEM INFORMATION		
1.1 TA No.: All	1.2 Facility No.: All	1.3 Facility Name: All LANL
1.4 Facility Hazard Category:		
<input type="checkbox"/> Nuclear Facility <input checked="" type="checkbox"/> Nonnuclear Facility		
<input type="checkbox"/> HC-2 <input type="checkbox"/> HC-3 <input type="checkbox"/> Less than HC-3	<input type="checkbox"/> Chemical High-PSM <input type="checkbox"/> Chemical High-non-PSM <input type="checkbox"/> Chemical Moderate <input checked="" type="checkbox"/> Chemical Low	<input type="checkbox"/> Accelerator <input type="checkbox"/> Firing Range <input type="checkbox"/> Biological <input type="checkbox"/> Explosive
1.5 Operating System ID: WSTWTR		1.6 Operating System Name: Waste Water
1.7 System ID: STW		1.8 System Name: Storm Water – Multi-Sector General Permit Program

2.0 SECURITY CLASSIFICATION REVIEW	
2.1 Security Classification: Unclassified	
2.2 DC/RO: (Name, Z Number, Organization, Signature, Date)	
Taunia Van Valkenburg, 145666, EPC-CP  12/16/19	

3.0 SYSTEM MANAGEMENT LEVEL DETERMINATION ANALYSIS		
3.1 Does this system meet one of the criteria below? If "Yes", then check the applicable criteria, insert the safety function(s) and safety analysis reference(s), and go to Section 4.0 and designate the system as ML-1. Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
<ul style="list-style-type: none"> The system is an SSC of a Hazard Category 2 or 3 Nuclear Facility that performs Documented Safety Analysis (DSA) designated Safety Class (SC) function(s). <input type="checkbox"/> The system is an SSC of an Accelerator Facility that performs Safety Assessment Document (SAD) designated public protection function(s). <input type="checkbox"/> The system is an SSC of a High Hazard Nonnuclear Facility that performs function(s) identified in the Facility Safety Analysis (FSA) for protection of the public. <input type="checkbox"/> 		
If "No" is checked then go to Field 3.2		
No.	SC or public protection functions as defined by Safety Analysis	DSA, SAD, or FSA Reference
3.1-1	N/A	N/A
3.1-2	N/A	N/A
3.1-3	N/A	N/A
3.2 Does this system meet one of the criteria below? If "Yes", then check the applicable criteria, insert the safety function(s) and safety analysis reference(s), and go to Section 4.0 and designate the system as ML-2. Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		

LANL


Form No: AP-341-502-FM01, Rev. 6
Form Effective Date: 02/07/18

ES-DO-20-032

NPDES Multi-Sector General Permit	No: EPC-CP-PIP-2101	Page 29 of 35
	Revision: 1	Effective Date: 10/20/2021

**Appendix A: NPDES Multi-Sector General Permit Program Management Level Determination,
MLDS-TA-60-324 Rev. 0 (cont.)**

(Page 2 of 4)



Los Alamos
NATIONAL LABORATORY
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Multi-Sector
**NPDES Construction General Permit Program
Management Level Determination**

Conduct of Engineering

MLDS No.: MLDS-TA-60-324 Rev.: 0 Page 2 of

- The system is an SSC of a Hazard Category 2 or 3 Nuclear Facility that performs DSA designated Safety Significant (SS) function(s). ☐
- The system is an SSC of an Accelerator Facility that performs SAD designated worker protection function(s). ☐
- The system is an SSC of a High Hazard Nonnuclear Facility that performs function(s) identified in the FSA for protection of the uninvolved or noninvolved worker. ☐

If "No" is checked then go to Field 3.3.

No.	SS functions or worker protection functions as defined by Safety Analysis	DSA, SAD, or FSA Reference
3.2-1	N/A	N/A
3.2-2	N/A	N/A
3.2-3	N/A	N/A

3.3 Does this system meet one of the criteria below? If "Yes", then check the applicable criteria, insert the function(s) and safety analysis or Facility Management reference(s), and go to Section 4.0 and designate the system as ML-3. Yes ☐ No ☒

LANL

Form No: AP-341-502-FM01, Rev. 6
Form Effective Date: 02/07/18

NPDES Multi-Sector General Permit	No: EPC-CP-PIP-2101	Page 30 of 35
	Revision: 1	Effective Date: 10/20/2021

Appendix A: NPDES Multi-Sector General Permit Program Management Level Determination, MLDS-TA-60-324 Rev. 0 (cont.)

(Page 3 of 4)



**Multi-Sector Conduct of Engineering
NPDES Construction General Permit Program
Management Level Determination**

MLDS No.: MLDS-TA-60-324

Rev.: 0

Page 3 of

- The system is an SSC of a Hazard Category 2 or 3 Nuclear Facility that is designated Other Hazard Control (OHC) in the DSA. ☐
- The system is an SSC that performs function(s) for protection of Category I or II Special Nuclear Material (SNM) or Classified Matter as determined by the Facility Management. ☐
- The system is an SSC of a Moderate Hazard Nonnuclear Facility that performs function(s) identified in the FSA for protection of uninvolved or noninvolved worker and the Facility Management requires enhanced engineering, quality, or maintenance support above national codes and standards requirements. ☐
- The system is an SSC that performs important function(s) for compliance with Waste Acceptance Criteria (WAC) for a Waste Receiving Site and as determined by the Facility Management. ☐
- The system is an SSC that performs function(s) for radiation protection that are not covered in the Radiation Protection Safety Management Program (SMP) and are considered important to normal, abnormal, or emergency response by the Facility Management ☐
- The system is an SSC that performs function(s) for environmental protection that are called out in a permit or used to demonstrate environmental compliance that are considered important by the Facility Management. (See discussion below) ☒
- The system is an SSC that performs function(s) that are essential to the facility mission as determined by the Facility Management. ☐

Evaluation. This MLDS is for the overall Multi-Sector General Permit (MSGP) Program at LANL, which is responsible for monitoring the storm water discharges at the outfalls to meet Water Quality Standards. The MSGP Program is responsible for the following:

- Determines inspection requirements, how often to conduct these inspections and what to monitor for;
- Evaluates sample results and compares those results to established effluent limits;
- Provides storm water discharge summary reports to the associated enforcement agencies at a predetermined reporting frequency;
- Works with the enforcement agencies to address identified issues.

In summary, this MLDS is associated with a program and not equipment. There is nothing in the program that would require it to be elevated to ML-3. While the program may rely on equipment to support permit requirements, the equipment (as applicable) should be evaluated separately from the program to determine the appropriate management level.

If "No" is checked then go to Field 3.4

No.	OHC Functions defined by Safety Analysis or other ML-3 functions as determined by Facility Management	DSA or Facility Management Reference
3.3-1	Obtain permit coverage (NOI) and modification	N/A
3.3-2	Permit implementation	N/A
3.3-3	Compliance inspections	N/A
3.3-4	Data management	N/A

LANL

Form No: AP-341-502-FM01, Rev. 6
Form Effective Date: 02/07/18

NPDES Multi-Sector General Permit	No: EPC-CP-PIP-2101	Page 31 of 35
	Revision: 1	Effective Date: 10/20/2021

Appendix A: NPDES Multi-Sector General Permit Program Management Level Determination, MLDS-TA-60-324 Rev. 0 (cont.)

(Page 4 of 4)



**Multi-Sector Conduct of Engineering
NPDES Construction General Permit Program
Management Level Determination**

MLDS No.: MLDS-TA-60-324

Rev.: 0

Page 4 of

3.3-5	Reporting	N/A
3.4 If the System does not meet any of the criteria in fields 3.1, 3.2, or 3.3, then designate the system as ML-4 in Section 4.0.		

4.0 SYSTEM MANAGEMENT LEVEL DESIGNATION			
ML-1 <input type="checkbox"/>	ML-2 <input type="checkbox"/>	ML-3 <input type="checkbox"/>	ML-4 <input checked="" type="checkbox"/>

5.0 APPROVALS	
5.1 Responsible Engineer (Name, Z Number, Organization, Signature, and Date)	
Terrill Lemke, 120092, EPC-CP	<i>Terrill Lemke</i> 4/25/19
5.2 Verifier (Name, Z Number, Organization, Signature, and Date)	
Taunia Van Valkenburg, 145666, EPC-CP	<i>Taunia Van Valkenburg</i> 12/11/19
5.3 Facility Design Authority Representative (Name, Z Number, Organization, Signature, and Date)	
Jason Apperson, 222827, ES-DO	<i>Jason Apperson</i> 12/12/19

6.0 REVISIONS					
Rev. No.	Date	Description	RE	Verifier	FDAR
0		Original Issue			

LANL

Form No: AP-341-502-FM01, Rev. 6
Form Effective Date: 02/07/18

NPDES Multi-Sector General Permit	No: EPC-CP-PIP-2101	Page 32 of 35
	Revision: 1	Effective Date: 10/20/2021

Attachment 1: Summary of QA Requirements and Program-Level (Local) Work Practices

Summary of QA Requirements and Program-Level (Local) Work Practices		
DOE Order 414.1D/SD 330 Requirements	LANL Work Practice	Local Implementing Procedure or QAP section (if applicable)
CRD Attach. 2, 1. Criterion 1 – Management/Program	LANL organization chart; SD100, <i>Integrated Safety Management System Description</i> ; PD100, <i>DOE/NNSA Approved Los Alamos National Laboratory</i> ; 10 CFR 851, <i>Worker Safety and Health Program</i>	EPC-CP organization chart; EPC-DO-QP-100; EPC-CP-IWD-2102
CRD Attach. 2, 2. Criterion 2 – Management/Personnel Training and Qualification	PD781, <i>Training Program Management</i> ; P1040, <i>Software Quality Management</i>	EPC-CP-QAP-001; EPC-CP Manager Qualification Standard EPC-CP Group Qualification Standard EPC-CP-QS-2005; EPC-CP-QS-2006; EPC-CP-QS-2007
CRD Attach. 2, 3. Criterion 3 – Management/Quality Improvement	P101-18, <i>Procedure for Pause/Stop Work</i> ; PD322-4, <i>Issues Management</i> ; PD324, <i>LANL Metrics Program</i> ; P330-6, <i>Nonconformance Control and Reporting</i>	EPC-CP-QAP-001
CRD Attach. 2, 4. Criterion 4 – Management/Document and Records	PD1020, <i>Document Control and Records Management</i>	ADESH-QAP-001; ESH-AP-006; ESH-AP-007; EPC-CP-QP-0901
CRD Attach. 2, 5. Criterion 5 – Performance/Work Processes	SD100, <i>Integrated Safety Management System Description Document with embedded 10 CFR 851 Worker Safety and Health Program</i> ; PD100, <i>DOE/NNSA Approved Los Alamos National Laboratory</i> ; 10 CFR 851 <i>Worker Safety and Health Program Description</i> ; P151-1, <i>LANL Packaging and Transportation Program Procedure</i> ; PD311, <i>Requirements System and Hierarchy</i> ;	EPC-CP-PIP-2101, <i>NPDES Multi-Sector General Permit Program Implementation Plan</i> ; EPC-CP-TP-2102, <i>Installing, Setting Up, and Operating ISCO Samplers</i> ; EPC-CP-TP-2103, <i>Inspecting ISCO Stormwater Runoff Samplers and Retrieving Samples</i> ; EPC-CP-QP-2104, <i>Installing, Inspecting, and Maintaining MSGP Single Stage Samplers</i>

NPDES Multi-Sector General Permit	No: EPC-CP-PIP-2101	Page 33 of 35
	Revision: 1	Effective Date: 10/20/2021

Summary of QA Requirements and Program-Level (Local) Work Practices		
DOE Order 414.1D / SD 330 Requirements	LANL Work Practice	Local Implementing Procedure or QAP section (if applicable)
	SD330, <i>Los Alamos National Laboratory Quality Assurance Program</i> ; PD340, <i>Conduct of Engineering for Facility Work</i> ; P315, <i>Conduct of Operations Manual</i> ; P330-2, <i>Control and Calibration of Measuring and Test Equipment (M&TE)</i> ; SD601, <i>Conduct of Research and Development</i> ; PD781, <i>Training Program Management</i> P1040, <i>Software Quality Management</i>	EPC-CP-QP-2105, <i>MSGP Stormwater Visual Assessments</i> ; EPC-CP-QP-2106, <i>Processing MSGP Stormwater Samples</i> ; EPC-CP-QP-2107, <i>Preparing Discharge Monitoring Reports for the NPDES Multi-Sector General Permit</i> ; EPC-CP-QP-2108, <i>MSGP Routine Facility Inspections</i> ; EPC-CP-QP-2109, <i>MSGP Corrective Actions</i> ; EPC-CP-QP-2110, <i>MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance</i>
CRD Attach. 2, 6. Criterion 6 – Performance/Design	<u>For Facility Work:</u> PD340, <i>Conduct of Engineering and Configuration Management for Facility Work</i> ; P341, <i>Facility Engineering Processes Manual</i> ; P342, <i>Engineering Standards</i> ; Engineering Standards Manual; Functional Series documents; Engineering Administrative Procedures <u>For R&D:</u> PD370, <i>Conduct of Engineering for Research and Development (R&D)</i>	No local implementing procedures, LANL Work Practices apply.
CRD Attach. 2, 7. Criterion 7 – Performance/Procurement	P840-1, <i>Quality Assurance for Procurements</i> ¹	No local implementing procedures, LANL Work Practices apply.
CRD Attach. 2, 8. Criterion 8 – Performance/Inspection and Acceptance Testing	P330-8, <i>Inspection and Test</i> ³ ; P330-2, <i>Control and Calibration of Measuring and Test Equipment (M&TE)</i>	No local implementing procedures, LANL Work Practices apply.

NPDES Multi-Sector General Permit	No: EPC-CP-PIP-2101	Page 34 of 35
	Revision: 1	Effective Date: 10/20/2021

Summary of QA Requirements and Program-Level (Local) Work Practices		
DOE Order 414.1D / SD 330 Requirements	LANL Work Practice	Local Implementing Procedure or QAP section (if applicable)
CRD Attach. 2, 9. Criterion 9 – Assessment/Management Assessment	PD328, <i>LANL Assessment Program</i> ; P328-3, <i>Management Assessment</i> ; P328-4, <i>Management Observation and Verification</i>	ADESH-QAP-001 EPC-CP-QAP-001
CRD Attach. 2, 10. Criterion 10 – Assessment/Independent Assessment	PD328, <i>LANL Assessment Program</i> ; P328-2, <i>Independent Assessment</i> ; P328-4, <i>Management Observation and Verification</i>	No local implementing procedures, LANL Work Practices apply.
CRD Attach. 3, Suspect/Counterfeit Items Prevention	P330-9, <i>Suspect/Counterfeit Items (S/CI)</i> ¹	No local implementing procedures, LANL Work Practices apply.
CRD Attach. 4, Safety Software Quality Assurance Requirements for Nuclear Facilities ²	P1040, <i>Software Quality Management</i> ² ; Form 2033, <i>Safety Non-Safety Software Determination, Categorization, and Software Risk Level</i>	No local implementing procedures, LANL Work Practices apply.
¹ S/CI prevention is also integrated into other listed work processes. Application of the S/CI oversight and prevention process is commensurate with the facility/activity hazards and mission impact. The extent of applicability of S/CI prevention for ML-4 items is as described in P840-1, <i>Quality Assurance for Procurements</i> , and P330-9, <i>Suspect/Counterfeit Items (S/CI)</i> . ² 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, <i>Software Quality Management</i> , for additional detail. ³ For ML-4 items and activities, inspections and tests are performed to extent required by the applicable codes and/or standards. ⁴ Core work practices applicable to R&D are described in SD601, <i>Conduct of Research and Development</i> .		


NPDES Multi-Sector General Permit	No: EPC-CP-PIP-2101	Page 35 of 35
	Revision: 1	Effective Date: 10/20/2021

Attachment 2: MSGP Facilities Associated with Industrial Activities

(Page 1 of 1)

MSGP Facilities Associated with Industrial Activities						
Location	Permitted Facility	Operation	Activity	Sector	Assessment Unit	Canyon
TA-3-38	TA-3-38 Metals Fab Shop	Metal Shop	Fabricated metal products	AA1	NM-9000.A_047	Sandia
TA-09-0214	TA-09-0214 Metal Fabrication Shop	Metal Shop	Fabricated metal products	AA1	NM-128.A_16	Arroyo de la Delfe
TA-16	Stockpile Area	Materials Storage	Materials storage	P1	NM-128.A_01	Canyon de Valle
TA-60	TA-60 Asphalt Batch Plant	Asphalt Batch Plant	Asphalt paving	D1	NM-9000.A_042	Mortandad
TA-60	TA-60 MRF	Materials Recycling Facility	Scrap recycling	N2	NM-9000.A_047	Sandia
TA-60	TA-60 Roads and Grounds	Roads and Grounds Facility	Vehicle maintenance and storage	P1	NM-9000.A_042 NM-9000.A_047	Mortandad Sandia
TA-60-1	TA-60-1 Heavy Equipment Yard	Motor Pool and Metal Shop	Vehicle maintenance and fabricated metal products	P1 and AA1	NM-9000.A_047	Sandia
TA-60-2	TA-60-2 Warehouse	Warehousing	Vehicle fueling	P1	NM-9000.A_047	Sandia

ATTACHMENT 16: EPC-CP-QP-2108, MSGP ROUTINE FACILITY INSPECTIONS

EPC-CP-QP-2108	Revision: 0	
Effective Date: 07/09/2020	Next Review Date: 07/09/2023	

Environment, Safety, Health, Quality, Safeguards, and Security Directorate

Environment Protection and Compliance – Compliance Programs Group

Quality Procedure

MSGP Routine Facility Inspections

Hazard Grading: ☒ Low ☐ Moderate ☐ High/Complex

Usage Level: ☒ Reference ☐ UET ☐ Mixed: UET Sections: _____

Status: ☐ New ☐ Major Revision ☐ Minor Revision

☐ Review w/No Changes ☒ Other: New EPC-CP format & numbering system

Safety Basis: ☒ N/A ☐ USQ ☐ USI Number: _____

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MSGP Routine Facility Inspections	No: EPC-CP-QP-2108	Page 2 of 21
	Revision: 0	Effective Date: 07/09/2020

REVISION HISTORY

Document Number and Revision <i>[Include revision number, beginning with Revision 0]</i>	Effective Date <i>[Document Control Coordinator inserts effective date]</i>	Description of Changes <i>[List specific changes made since the previous revision]</i>
EPC-CP-QP-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.

MSGP Routine Facility Inspections	No: EPC-CP-QP-2108	Page 3 of 21
	Revision: 0	Effective Date: 07/09/2020

Table of Contents

Revision History	2
1.0 Introduction	4
1.1 Purpose	4
1.2 Scope	4
1.3 Applicability	4
2.0 Roles and Responsibilities.....	4
2.1 EPC-CP MSGP Stormwater Permitting and Compliance Team	5
2.2 Deployed Environmental Professionals	5
2.3 EPC-CP Stormwater Permitting and Compliance Team Leader	6
2.4 EPC-CP Group Leader	6
2.5 DESH Manager.....	6
3.0 Precautions and Limitations	7
3.1 Precautions.....	7
3.2 Limitations.....	7
4.0 Prerequisite Actions.....	8
4.1 Planning and Coordination.....	8
4.2 Special Tools, Equipment, Parts, and Supplies.....	8
5.0 MSGP Routine Facility Inspections	9
5.1 Conducting the Inspection	10
5.2 Completing the Inspection Form.....	12
5.3 Completing the Certification Statement	13
6.0 Training	14
7.0 Records	14
8.0 Definitions and Acronyms.....	15
8.1 Definitions	15
8.2 Acronyms.....	15
9.0 References	15
10.0 Attachments	15
Attachment 1: Screenshot Examples of EPC-CP-QP-2108 R0 Form 1, <i>MSGP Routine Facility Inspection</i> in MC Express.....	16
Attachment 2: <i>MSGP Routine Facility Inspection</i> Hard Copy Example, EPC-CP-QP-2108 R0 Form 1....	19

MSGP Routine Facility Inspections	No: EPC-CP-QP-2108	Page 4 of 21
	Revision: 0	Effective Date: 07/09/2020

1.0 INTRODUCTION

The National Pollutant Discharge Elimination System (NPDES) Multi-Sector General Permit (MSGP), also referred to as the permit, contains specific environmental requirements for inspecting areas of Los Alamos National Laboratory (LANL) covered by the permit. This includes areas where industrial materials or activities are exposed to stormwater, areas identified as potential pollutant sources, areas where leaks and spills have occurred in the past three years, discharge points, and control measures used to comply with the effluent limits of the MSGP.

LANL inspectors and facility personnel are required to perform routine facility inspections for industrial stormwater discharge on LANL areas covered by the MSGP at least quarterly and document observations. Conditions (as described by the MSGP) found during an inspection, requiring a corrective action(s), are managed through EPC-CP-QP-022, *MSGP Corrective Actions*.

1.1 Purpose

Part 3.1 of the MSGP contains specific requirements for conducting and documenting periodic industrial routine facility inspections. This procedure governs the activities of personnel involved in conducting industrial routine facility inspections. It also contains information and specific steps to be used for identifying and documenting conditions in order to meet the permit requirements.

1.2 Scope

Requirements set forth in this document apply to personnel responsible for meeting the permit conditions on behalf of LANL industrial facilities covered by the MSGP. The MSGP requires periodic inspection of facilities and identification, documentation, and reporting of conditions, including those requiring corrective actions.

Inspections conducted under this procedure are documented using the Maintenance Connection Express™ (MC Express) web application on a tablet or notebook style computer. (In the event of electronic hardware or web application failure, personnel may use a printed hard copy to conduct the inspection.)

1.3 Applicability

This procedure applies to Environmental Protection and Compliance—Compliance Programs (EPC-CP) technical staff, Deployed Environmental Professionals (DEPs), and other LANL staff who conduct inspections and monitoring activities at MSGP regulated LANL facilities.

2.0 ROLES AND RESPONSIBILITIES

Specific roles and responsibilities for implementation of requirements contained in this procedure are provided below.

MSGP Routine Facility Inspections	No: EPC-CP-QP-2108	Page 5 of 21
	Revision: 0	Effective Date: 07/09/2020

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;

MSGP Routine Facility Inspections	No: EPC-CP-QP-2108	Page 6 of 21
	Revision: 0	Effective Date: 07/09/2020

- 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.

MSGP Routine Facility Inspections	No: EPC-CP-QP-2108	Page 7 of 21
	Revision: 0	Effective Date: 07/09/2020

3.0 PRECAUTIONS AND LIMITATIONS

3.1 Precautions

The hazard rating for the activities described in this procedure is **LOW** and therefore, does not require an Integrated Work Document (IWD).

Personnel must wear appropriate clothing (e.g., boots, long pants, etc.) to perform work in the field.

Work may be discontinued during periods or conditions that make sites dangerous for worker safety or prevent personnel from safely accessing sites (e.g., weather-related events such as flash floods, flooding, lightning, wildfires, hail, icy roads, deep snow, or LANL operations such as firing shots or burns).

If conditions prevent fieldwork, document the conditions on the work order. Multiple attempts can be documented on the original form. If the target date cannot be met, the field personnel must contact the Program Lead no less than 24 hours before the target date for guidance.

3.2 Limitations

In MC Express, document responses to each question on a work order by clicking the expand arrow located on the right side of the task line and changing the "Complete" or "Failed" line to "Yes." When using a hard copy form, mark the appropriate "Yes" or "No" check box.

Throughout this process, the field personnel will document comments and notations in the "Comments" field of the associated task line. If field personnel need more space, additional comments can be entered in the "Labor Report Update" field (see Section 5.2) when the work order is updated to "Complete" status. When using a hard copy form, document comments on the corresponding task line. If additional space is needed, comments can be entered in the "Labor Report" section at the bottom of the form.

Some terminology varies between the MC Express software and the Maintenance Connection (MC) desktop software.

- The "Reading" field in MC Express is the same field as "Reading Final" in MC desktop and "Meas." on a hard copy (printed) work order.
- The "Complete" option in MC Express is the same as a "Yes" answer; the "Failed" option in MC Express is the same as a "No" answer. MC desktop and hard copy (printed) work orders use "Yes" and "No" terminology.

Click the "Save" bar after all entries for a task line question have been completed and before proceeding to the next task line question. Failure to "Save" results in lost data entries.

MSGP Routine Facility Inspections	No: EPC-CP-QP-2108	Page 8 of 21
	Revision: 0	Effective Date: 07/09/2020

4.0 PREREQUISITE ACTIONS

4.1 Planning and Coordination

1. Schedule work to be completed by the target date appearing on the inspection form or as requested by the MSGP Program Lead if an inspection form is not issued.
2. Inform (e.g., by e-mail) facility contacts (as needed) of the schedule for facility inspection work and locations up to a week (preferred) before but no later than the day before (for minor changes) to be added to the appropriate plan of the day (as necessary).
3. Gather the necessary equipment (see Section 4.2) for the work to be done.
4. Using the Safari or Chrome web browser on a tablet or notebook style computer, log into the MC Express application (<http://express.maintenanceconnection.com>) and confirm that the work order list displayed matches your sites. If the work order lists do not match, contact EPC-CP Data Management personnel for clarification.
5. In MC Express, click on the appropriate work order number to open the work order. The work order will open in the display to the Work Order Summary page.
6. Click on the "Tasks" bar to navigate to the work order Tasks page. See MC Express screen shot examples in Attachment 1.
7. Always log out of MC Express when you have finished work OR if work is interrupted.

4.2 Special Tools, Equipment, Parts, and Supplies

Ensure the following equipment is available.

- Sturdy hiking boots or steel-toed shoes with soles that grip.
- Facility-specific PPE as required by IWD Part II.
- Cell phone (Only government cell phones are allowed in secure areas. See <https://int.lanl.gov/policy/documents/P217.pdf> for requirements for using portable electronic devices on Laboratory property.)
- Copy of this procedure.
- Copy of facility specific SWPPP and map(s) (as needed).
- Current electronic or paper inspection form EPC-CP-QP-2108 R0 Form 1, *MSGP Routine Facility Inspection*.
- LANL issued tablet or notebook style computer with Safari web browser and Blackberry UEM™ app (see <https://int.lanl.gov/policy/documents/P217.pdf> for requirements for using portable electronic devices on Laboratory property).
- Necessary access keys.

MSGP Routine Facility Inspections	No: EPC-CP-QP-2108	Page 9 of 21
	Revision: 0	Effective Date: 07/09/2020

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

MSGP Routine Facility Inspections	No: EPC-CP-QP-2108	Page 10 of 21
	Revision: 0	Effective Date: 07/09/2020

protected by a storm resistant shelter (e.g., moved to an indoor location) to prevent exposure to rain, snow, snowmelt, and/or runoff. A determination of whether a facility is eligible for “no exposure” status is made in coordination with stormwater personnel from EPC-CP, as there are specific documentation and certification requirements that have to be met prior to discontinuing routine inspections. Such a facility is only required to conduct an annual site evaluation and recertification every five years.

5.1 Conducting the Inspection

See Attachment 1 for screen shot examples of EPC-CP-QP-2108 R0 Form 1, *MSGP Routine Facility Inspection* in MC Express. See Attachment 2 for an example of the inspection form in hard copy format. **Questions will be answered “Yes/Complete” or “No/Failed” unless the instructions specify “N/A” may also be used.**

NOTE: Each item number listed in red font below corresponds to a red numbered box on both screenshots and hard copy format.

- [1] **ITEM 1:** Observe the weather at time of inspection. Document the weather and temperature in the “Comments” field of the task line (e.g., Temp. 78°F, sunny, wind less than 5mph).
- [2] **ITEM 2:** Observe and document the facility is free of **previously** unidentified discharges from and/or pollutants that have occurred **since the last inspection**. Describe any new discharges and the specific location in the “Comments” field of the task line.
- [3] **ITEM 3:**
IF the response to **ITEM 2** is “Yes”,
THEN answer this task line as “N/A”.
OR
IF the response to **ITEM 2** is “No”,
THEN answer this task line as “Yes” and document the corrective action previously initiated for the discharge.
- [4] **ITEM 4:** Check the facility is free of discharges of pollutants at the time of inspection. Describe any pollutant discharge and the specific location in the “Comments” field of the task line.
- [5] **ITEM 5:** Check the facility is free of evidence of pollutants entering the drainage system OR the potential for pollutants entering the drainage system. Describe any discharge or potential discharge and the specific location in the “Comments” field of the task line.
- [6] **ITEM 6:** Check the outfall does not have any **new** evidence of erosion **since the last inspection**. Describe any erosion observed in the “Comments” field of the task line.

MSGP Routine Facility Inspections	No: EPC-CP-QP-2108	Page 11 of 21
	Revision: 0	Effective Date: 07/09/2020



- [7] **ITEM 7:** Check all flow dissipation devices are operating effectively and are not in need of repair. Describe any non-functional status of devices in the “Comments” field of the task line (e.g., repair berm, replace rip rap, etc.).
- [8] **ITEM 8:** Check the outfall is free of evidence of pollutants in the discharge and/or the receiving water. Describe any pollutants observed in the “Comments” field of the task line (e.g., sediment from nearby erosion, etc.).
- [9] **ITEM 9:** Check the outfall is free of unauthorized non-stormwater discharges. Describe any unauthorized discharges observed in the “Comments” field of the task line (e.g., street sweeper emptied contents at Outfall 001, etc.).
- [10] Repeat Steps 6 through 9 for each outfall shown on the work order, if the location has more than one outfall.
- [11] **ITEM 10:** Check each control measure is operating effectively. Describe any non-operational condition of the control measure (e.g., erosion, damage, etc.,) and if the control measure needs maintenance, repair, or replacement in the “Comments” field of the task line.
 - [a] Determine if additional controls are necessary, or that existing controls are insufficient and require replacement with a different type of control.
 - [b] The DEPs are responsible for the selection and oversight of proper installation of appropriate control measures per guidance provided in the LANL Stormwater BMP Manual.
- [12] Repeat Step 11 for each control measure shown on the work order, if the location has more than one control measure.
- [13] **ITEM 11:** Check each sector of NPDES specified industrial area/activity is inspected for exposure to stormwater (e.g., metal fabrication; foundry operations; power generation; asphalt production; fabricating timber products; material recycling; warehouse and transportation activity; treatment and storage of hazardous waste).
 - [a] Determine if the control measures associated with each industrial area/activity are appropriate for the activity, effectively controlling stormwater exposure, and operating.
 - [b] Describe any non-operational condition of the control(s) and needed maintenance or a description of corrective actions in the “Comments” field of the task line.
 - [c] For industrial activities that do not occur at the facility, select “N/A” on that task line.
- [14] Repeat Step 13 for each industrial area/activity shown on the work order, if the facility has more than one sector of NPDES specified industrial area/activity.

MSGP Routine Facility Inspections	No: EPC-CP-QP-2108	Page 12 of 21
	Revision: 0	Effective Date: 07/09/2020

- [15] **ITEM 12:** Check the facility is free of any incidence of non-compliance not documented elsewhere on the inspection form. Describe any additional incidences of non-compliance in the “Comments” field of the task line.
- [16] **ITEM 13:** Check the facility meets the MSGP requirements with existing control measures. Describe any additional control measures needed to comply with the Permit.
- [17] After all task lines have been completed, make sure you have clicked the “Save” bar at the bottom of the page.

5.2 Completing the Inspection Form

See Attachment 1 for completing EPC-CP-QP-2108 R0 Form 1 in MC Express and Attachment 2 for a hard copy example.

- [1] Ensure the inspection form has been filled out completely.
- [2] Click the “Back” arrow button  in the upper left hand corner to exit the work order Tasks page and return to the Work Order Summary page.
- [3] Click the checkered flag  in the upper right corner of the work order Summary page to open the Work Order Status Update page. MC Express auto-populates the date and time fields.

CAUTION

MC Express automatically changes the work order status to “Closed.”

- [4] **ITEM 14:** Click on the expand arrow located on the right side of the “New Status” field and select “Completed” from the available dropdown menu.
 - [a] Ensure the date and time that is auto-populated are the date and time that the **work was completed** and **not the date/time the form was filled out**.
 - [b] IF work needs to be performed over multiple days, THEN note the date and time the work began in the Labor Report field.
 - [c] To update the date or time, click the “Date” field and make necessary adjustments using the available timestamp application. Click “Set” to apply changes.
 - [d] IF using a hard copy form, THEN write the date and time the work was completed.
- [5] **ITEM 15:** The field personnel must type or write his/her name in the “Labor Report Update” field.
- [6] Additional notes, observations, or site conditions not documented in a task line “Comments” field can be documented in the “Labor Report Update” field.


MSGP Routine Facility Inspections	No: EPC-CP-QP-2108	Page 13 of 21
	Revision: 0	Effective Date: 07/09/2020

- [7] Scroll down the page to the “Signature” bar and click the expand arrow on the left side of the bar to open the “Signature” field.
 - [a] **ITEM 16:** Capture an electronic signature by drawing with a finger on the tablet screen.

NOTE: The mouse must be used to sign electronically when using MC Express on a desktop screen (not a tablet).
 - [b] If using a hard copy form, the field personnel will sign his/her name and write in the date of when the form was signed.
 - [c] By electronically signing the work order, field personnel certifies that the information submitted is “true, accurate, and complete.”
- [8] Click on the “Save” bar at the bottom of the page to close the “Signature” field.

5.3 Completing the Certification Statement

Follow Steps 1 through 5 in this section if the inspection form was completed electronically (see Attachment 1). If the inspection form was completed on a hard copy form, skip to Step 6.

- [1] Using the Chrome web browser on a desktop computer, navigate to <http://www.maintenanceconnection.com>. Log into the MC desktop application using your login credentials.
- [2] Click “Open” in the tool bar at the top of the page to open the MC module selections. Click on the “Work Orders” module.
- [3] Click on the “Search” tab at the top left of the page.
 - [a] Enter the work order number in the “Search Value” field.
 - [b] Click the arrow to the right of the “Search Value” field to open the work order in the right split screen.
- [4] Click on the “Report” tab at the top of the page and click the “Work Order Statement” sub-tab.
- [5] Click the Tools drop down menu  in the top right corner of the page.
 - [a] Select “Print” from the options.
 - [b] When the print dialog box opens, select the print options as appropriate for your local printer.
- [6] **ITEM 17:** Obtain a printed name and title, signature, and date on the certification statement.

The certification statement will be signed no more than 14 days after completion of the inspection and a copy sent to the EPC-CP Program Lead or designee.

MSGP Routine Facility Inspections	No: EPC-CP-QP-2108	Page 14 of 21
	Revision: 0	Effective Date: 07/09/2020

- [a] The routine facility inspection form must be certified with a signature from a manager that meets the definition of a signatory in MSGP Permit Section B.11.A (e.g., FOD, Operations Manager, DSESH Group Leader, EPC-CP Group Leader, EPC-CP Team Lead).
- [b] The manager is certifying the information submitted is “true, accurate, and complete” by signing the inspection form.
- [7] Attach the completed, signed, and certified inspection form to the facility SWPPP.
- [8] Submit a copy of the completed form to the MSGP Program Lead.

6.0 TRAINING

The following personnel require training before implementing this procedure.

- DESH Group and Team Leaders
- EPC-CP MSGP stormwater compliance personnel
- DEPs
- Other personnel identified as being required to conduct stormwater assessments as part of their job duties

All EPC-CP personnel that execute the activities specified in this procedure must meet the minimum qualification and training requirements for their position as identified EPC-CP-PIP-2101, NPDES *Multi-Sector General Permit Program Implementation Plan*. This will include “self-study” (required reading) for this procedure as assigned and documented in accordance with ADOSH-TTP-301, *ADOSH Training Program Plan*.

Contract personnel that execute the activities specified in this procedure will be qualified and trained as required by the Exhibit D and Exhibit F. In addition, contract personnel will be required to complete “self-study” (required reading) of this procedure.

7.0 RECORDS

MSGP Routine Facility Inspection forms are signed and certified by individual LANL facilities. These completed forms are maintained in the facility’s SWPPP and managed by the facility’s document management system. The MSGP team may retain a copy for reference purposes.

Below are records generated as a result of implementing this procedure. Records generated are identified by title and type.

Record Title	QA Record	Non-QA Record
EPC-CP-QP-2108 R0 Form 1, <i>MSGP Routine Facility Inspection</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

MSGP Routine Facility Inspections	No: EPC-CP-QP-2108	Page 15 of 21
	Revision: 0	Effective Date: 07/09/2020

8.0 DEFINITIONS AND ACRONYMS

8.1 Definitions

See LANL [Definition of Terms](#).

Best Management Practice (BMP) – Schedules of activities, prohibitions of practices, maintenance procedures, and other management practices to prevent or reduce the pollution of “waters of the United States.” BMPs also include treatment requirements, operating procedures, and practices to control plant site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage (*40 CFR Part 122.2*).

Control Measure – Any BMP or other method (including effluent limitations) used to prevent or reduce the discharge of pollutants to waters of the United States.

8.2 Acronyms

See LANL Acronym Master List.

BMP	Best Management Practice
EPC-CP	Environmental Protection and Compliance – Compliance Programs
DEP	Deployed Environmental Professional
DESH	Deployed Environment, Safety, and Health
FOD	Facility Operations Director
LANL	Los Alamos National Laboratory
MC	Maintenance Connection
MC Express	Maintenance Connection Express
MSGP	Multi-Sector General Permit
NPDES	National Pollutant Discharge Elimination System
SWPPP	Stormwater Pollution Prevention Plan

9.0 REFERENCES

Federal Register, Final National Pollutant Discharge Elimination System (NPDES) General Permit for Stormwater Discharges from Industrial Activities. Federal Register: June 16, 2015, Volume 80, Number 115.

Los Alamos National Laboratory Storm Water BMP Manual

10.0 ATTACHMENTS

Attachment 1: Screenshot Examples of EPC-CP-QP-2108 R0 Form 1, *MSGP Routine Facility Inspection* in MC Express

Attachment 2: EPC-CP-QP-2108 R0 Form 1, *MSGP Routine Facility Inspection* Hard Copy Example

MSGP Routine Facility Inspections	No: EPC-CP-QP-2108	Page 16 of 21
	Revision: 0	Effective Date: 07/09/2020

Attachment 1: Screenshot Examples of EPC-CP-QP-2108 R0 Form 1, *MSGP Routine Facility Inspection in MC Express*

(Page 1 of 3)

Work Order Tasks Page (Section 5.1, Steps 1-5)

The screenshot shows the 'MC Express' mobile application interface. At the top, a blue header bar contains a back arrow, the text 'MC Express', and a menu icon. Below the header, a grey bar displays 'WORK ORDER: MSGP-RI-52112' and 'Tasks'. A search bar with a magnifying glass icon is positioned below the header. The main content area is titled 'Weather Information' and lists five tasks, each with a flag icon, a number in a red box, and a description. Task 1 is 'Describe the weather at time of inspection and document the temperature (F°)'. Task 2 is 'Is the facility free of previously unidentified discharges from and/or pollutants that have occurred since the last inspection If "No" describe.'. Task 3 is 'If "No" has a CAR been previously initiated for this new discharge?'. Task 4 is 'Is the facility free of discharge of pollutants at the time of inspection? If "No" describe.'. Task 5 is 'Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe.'. Each task has a download icon to its right. At the bottom, a blue bar contains an information icon, the text 'Refresh', a grid icon, and the text 'List'.

Work Order Tasks Page (Section 5.1, Steps 6-9)

The screenshot shows the 'MC Express' mobile application interface. At the top, a blue header bar contains a back arrow, the text 'MC Express', and a menu icon. Below the header, a grey bar displays 'WORK ORDER: MSGP-RI-52112' and 'Tasks'. A search bar with a magnifying glass icon is positioned below the header. The main content area is titled 'Outfall Inspection (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comment)' and lists five tasks, each with a flag icon, a number in a red box, and a description. Task 6 is 'Free of Evidence of Erosion? If "No", describe. Asset: [074] Monitored Outfall'. Task 7 is 'Flow Dissipation Devices Operating Effectively? If "No", describe. Asset: [074] Monitored Outfall'. Task 8 is 'Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. Asset: [074] Monitored Outfall'. Task 9 is 'Free of any unauthorized non-stormwater discharges? If "No" describe. Asset: [074] Monitored Outfall'. Each task has a download icon to its right. At the bottom, a blue bar contains an information icon, the text 'Refresh', a grid icon, and the text 'List'.

MSGP Routine Facility Inspections	No: EPC-CP-QP-2108	Page 17 of 21
	Revision: 0	Effective Date: 07/09/2020

Attachment 1: Screenshot Examples of EPC-CP-QP-2108 R0 Form 1, *MSGP Routine Facility Inspection* in MC Express (cont.)

(Page 2 of 3)

Work Order Tasks Page (Section 5.1, Step 11)

MC Express

WORK ORDER: MSGP-RI-52112

Tasks

Control Measures (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comments).

180
10 Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.
 Asset: [0300503040002] Asphalt Berm

190
 Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.
 Asset: [0300504060001] Rip Rap

200
 Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.
 Asset: [0300503200004] EnviroSoxx w/ MetalLoxx

Refresh **List**

Work Order Tasks Page (Section 5.1, Step 13)

MC Express

WORK ORDER: MSGP-RI-52112

Tasks

Area/Activity exposed to stormwater (identify needed maintenance or a description of corrective actions in relevant task comment).

220
11 Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.

230
 Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.

240
 Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.

250
 Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.

Refresh **List**

MSGP Routine Facility Inspections	No: EPC-CP-QP-2108	Page 18 of 21
	Revision: 0	Effective Date: 07/09/2020

Attachment 1: Screenshot Examples of EPC-CP-QP-2108 R0 Form 1, *MSGP Routine Facility Inspection in MC Express (cont.)*

(Page 3 of 3)

Work Order Tasks Page (Section 5.1, Steps 15 and 16)

MC Express

WORK ORDER: MSGP-RI-52112

Tasks

Non-Compliance

400

12 Free of incidents of observed non-compliance not already identified above? If "No" describe.

Additional Control Measures

420

13 Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed.

Refresh List

Work Order Status Update Page (Section 5.2, Steps 4-6)

MC Express

WORK ORDER: MSGP-RI-52112

Status Update

Issued / Completed

New Status 14

Completed

Date

1/23/2019 10:39 AM

Percent Complete 100%

Labor Report Update 15

Select Comments to Add.....

Jane Doe

Cancel Save

Work Order Status Update Page (Section 5.2, Step 7)

MC Express

WORK ORDER: MSGP-RI-52112

Status Update

Signature 16

(Remove)

Jane Doe

Cancel Save

MSGP Routine Facility Inspections	No: EPC-CP-QP-2108	Page 19 of 21
	Revision: 0	Effective Date: 07/09/2020

Attachment 2: MSGP Routine Facility Inspection Hard Copy Example, EPC-CP-QP-2108 R0 Form 1
(Page 1 of 3)

Los Alamos National Laboratory

Work Order MSGP-RI-52112

MSGP Routine Inspection
Printed 1/23/2019 - 12:45 PM (Duplicate Copy)

Maintenance Details

Requested By: Admin, Jane on
1/23/2019 12:30:00 PM

Target: 12/31/2020

Priority/Type: / Inspection

 MSGP Program
RG121.9

Taken By: Banar, Alethea

Department: Utilities and Infrastructure

 TA-3-38 Carpenter Shop

Procedure: MSGP Routine Facility
Inspection (EPC-CP-
QP-2108 R0 Form 1)

Last PM: N/A

Contact: Admin, Jane
Phone: 123-4567

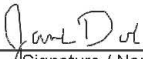
Reason: Example MSGP Routine Facility Inspection

Tasks

#	Description	Meas.	No	N/A	Yes
Weather Information					
1	20 Describe the weather at time of inspection and document the temperature (F°).		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Within the Facility Boundary					
2	40 Is the facility free of previously unidentified discharges from and/or pollutants that have occurred since the last inspection? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	50 If "No" has a CAR been previously initiated for this new discharge?		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	60 Is the facility free of discharge of pollutants at the time of inspection? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	70 Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Outfall Inspection (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comment)					
6	90 Monitored Outfall [074] Free of Evidence of Erosion? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	100 Monitored Outfall [074] Flow Dissipation Devices Operating Effectively? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8	110 Monitored Outfall [074] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9	120 Monitored Outfall [074] Free of any unauthorized non-stormwater discharges? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	130 Substantially Identical Outfall [073] Free of Evidence of Erosion? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	140 Substantially Identical Outfall [073] Flow Dissipation Devices Operating Effectively? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	150 Substantially Identical Outfall [073] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	160 Substantially Identical Outfall [073] Free of any unauthorized non-stormwater discharges? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10	Control Measures (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comments).				
	180 Asphalt Berm [0300503040002] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	190 Rip Rap [0300504060001] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	200 EnviroSoxx w/ MetalLoxx [0300503200004] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11	Area/Activity exposed to stormwater (identify needed maintenance or a description of corrective actions in relevant task comment).				
	220 Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	230 Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

MSGP Routine Facility Inspections	No: EPC-CP-QP-2108	Page 20 of 21
	Revision: 0	Effective Date: 07/09/2020

**Attachment 2: MSGP Routine Facility Inspection Hard Copy Example, EPC-CP-QP-2108 R0 Form 1
(cont.)
(Page 2 of 3)**

240	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
250	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
260	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
270	Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
280	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
290	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
300	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
310	Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
320	Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
330	Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
340	Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
350	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
360	Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
370	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
380	Sector A [03005-] Wood processing, transport or treated wood storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Non-Compliance				
12	400 Free of incidents of observed non-compliance not already identified above? If "No" describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Additional Control Measures				
13	420 Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Labor Report				
14	Completed: 1/23/2019 10:39:00 AM			
15	Report: [Additional notes, observations, or site conditions not documented in Task Line Comments field] Jane Doe			
16	 Signature / Name	1/23/2019 Date		
I confirm the information as recorded is true, accurate and complete.				

MSGP Routine Facility Inspections	No: EPC-CP-QP-2108	Page 21 of 21
	Revision: 0	Effective Date: 07/09/2020

**Attachment 2: MSGP Routine Facility Inspection Hard Copy Example, EPC-CP-QP-2108 R0 Form 1
(cont.)**

(Page 3 of 3)

CERTIFICATION STATEMENT


"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations".

(Signatory must meet definition in Section B.11.A, eg., FOD, Ops Mgr, DESH Group Leader, EPC Group Leader)

17 Print name and title: _____

Signature: _____ Date: _____

ATTACHMENT 17: EPC-CP-QP-2109, MSGP CORRECTIVE ACTIONS

EPC-CP-QP-2109	Revision: 0	
Effective Date: 06/02/2022	Next Review Date: 06/02/2025	

Environment, Safety, Health, and Quality, Safeguards and Security Directorate
Environmental Protection and Compliance Division – Compliance Programs
Quality Procedure

MSGP Corrective Actions

Hazard Grading:	<input checked="" type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> High/Complex
Usage Level:	<input checked="" type="checkbox"/> Reference	<input type="checkbox"/> UET	<input type="checkbox"/> Mixed: UET Sections: _____
Status:	<input type="checkbox"/> New	<input checked="" type="checkbox"/> Major Revision	<input type="checkbox"/> Minor Revision
	<input type="checkbox"/> Review w/No Changes		<input type="checkbox"/> Other: _____
Safety Basis:	<input checked="" type="checkbox"/> N/A	<input type="checkbox"/> USQ	<input type="checkbox"/> USI Number: _____

Document Owner/Subject Matter Expert:

Name:	Organization:	Signature:	Date:
Holly L. Wheeler	EPC-CP	Signature on File	05-05-2022

Derivative Classifier: ☒ **Unclassified** or ☐ _____

Name:	Organization:	Signature:	Date:
Steven E. Wolfel	EPC-CP	Signature on File	05-06-2022

Approval Signatures:

EPC-CP Reviewer:	Organization:	Signature:	Date:
Leslie J. Dale	EPC-CP	Signature on File	05-06-2022
EPC-CP RLM:	Organization:	Signature:	Date:
Terrill W. Lemke, Team Leader	EPC-CP	Signature on File	05-20-2022
EPC-CP RLM	Organization:	Signature:	Date:
Steven L. Story, Group Leader	EPC-CP	Signature on File	06-02-2022

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MSGP Corrective Actions	EPC-CP-QP-2109	Page 2 of 39
	Revision: 0	Effective Date: 06/02/2022

Revision History

Document Number and Revision <i>[Include revision number, beginning with Revision 0]</i>	Effective Date <i>[Document Control Coordinator inserts effective date]</i>	Description of Changes <i>[List specific changes made since the previous revision]</i>
0	08/10	New Document.
1	11/10	Incorporated EPC-CP-QP-062 <i>MSGP Routine Inspections</i> into this document.
2	01/13	Biennial revision, new template implemented.
EPC-CP-QP-022 R3	12/20/2018	Revision to reflect new 2015 MSGP requirements. New procedure format was used, and organizational changes made. This document replaces ENV-RCRA-QP-022, R2, which was split into EPC-CP-QP-023, R0, MSGP Industrial Stormwater Routine Facility Inspections, and EPC-CP-QP-022, R3, MSGP Corrective Actions.
EPC-CP-QP-2109 R0	06/02/2022	This document replaces/supersedes EPC-CP-QP-022 R3. This Revision incorporates new 2021 MSGP permit requirements, a new document number, and other organizational updates.

MSGP Corrective Actions	EPC-CP-QP-2109	Page 3 of 39
	Revision: 0	Effective Date: 06/02/2022

Table of Contents

Revision History	2
Table of Contents	3
1.0 Introduction	5
1.1 Purpose	5
1.2 Scope	5
1.3 Applicability	5
2.0 Precautions and Limitations	5
3.0 Prerequisite Actions.....	6
3.1 Planning and Coordination.....	6
3.2 Tools and Equipment	6
4.0 Roles and Responsibilities.....	6
4.1 EPC-CP MSGP Stormwater Personnel	6
4.2 Deployed Environmental Professionals	7
4.3 EPC-CP Storm Water Permitting/Compliance Team Leader	8
4.4 EPC-CP Group Leader	8
4.5 DEP Team Leader	8
4.6 Facilities Operations Director.....	9
5.0 Process Description	9
5.1 Identifying Conditions Requiring Corrective Actions	9
5.2 Corrective Action and AIM Level Deadlines and Documentation.....	10
5.2.1 Immediate Action.....	10
5.2.2 Subsequent Action	11
5.2.3 AIM Level 2.....	13
5.2.4 AIM Level 3.....	14
5.2.5 AIM Exceptions	15
5.3 Effect of Corrective Action	16
5.4 Substantially Identical Discharge Points	16
5.5 Spills.....	16
5.6 Allowable Non-Stormwater Discharges	16
5.7 Entering a Condition Requiring Corrective Action	17
5.8 Updating Corrective Actions	22
5.9 Validation of Corrective Actions.....	22
5.10 Issues Management	23
5.11 Automatic Notifications	23
6.0 Training	24
7.0 Records	25
8.0 Definitions and Acronyms.....	25
8.1 Definitions	25
8.2 Acronyms.....	26
9.0 References	27
10.0 Attachments	27
Attachment 1: Screenshot Example of CAR Database.....	28
Attachment 2: List of Limited Values in the CAR Database	35

MSGP Corrective Actions	EPC-CP-QP-2109	Page 4 of 39
	Revision: 0	Effective Date: 06/02/2022

Attachment 3: Example New Corrective Action Finding Notification36

Attachment 4: Example Weekly Notification of Outstanding Corrective Action Findings38

Attachment 5: Example Outstanding Corrective Action Report.....39

MSGP Corrective Actions	EPC-CP-QP-2109	Page 5 of 39
	Revision: 0	Effective Date: 06/02/2022

1.0 INTRODUCTION

The National Pollutant Discharge Elimination System (NPDES) Multi-Sector General Permit (MSGP) contains specific environmental requirements for identifying, implementing, documenting, and reporting conditions requiring corrective actions. Laboratory personnel [the Deployed Environmental Professionals (DEPs)] and the Environmental Protection and Compliance Division – Compliance Programs (EPC-CP) Storm Water Permitting/Compliance Team (also referred to as EPC-CP MSGP stormwater personnel) are required to perform routine facility inspections and document all identified conditions requiring corrective actions on an inspection form (see EPC-CP-QP-2108). Conditions requiring corrective actions can be identified during facility walk-downs, normal daily operations, and/or analytical data evaluations, and can be identified by facility personnel, the DEP, or EPC-CP MSGP stormwater personnel.

1.1 Purpose

This procedure governs the activities of Laboratory personnel working for Triad National Security, LLC (Triad) at Los Alamos National Laboratory (LANL) involved in identifying, implementing, documenting, and entering a condition requiring corrective action. This includes entering a permit limit exceedance or Additional Implementation Measures (AIM) level into the MSGP Corrective Action Report (CAR) database. Part 5.3 of the MSGP permit contains specific documentation requirements relative to corrective actions and AIM. This procedure satisfies these requirements.

1.2 Scope

Requirements set forth in this document apply to personnel responsible for meeting the permit conditions on behalf of LANL industrial sites covered by the MSGP. This permit requires periodic inspection of sites and identification, implementation, documentation, tracking and reporting of conditions requiring corrective actions.

1.3 Applicability

This procedure applies to EPC-CP MSGP stormwater personnel and DEPs who conduct stormwater inspections and monitoring activities at permitted MSGP sites within LANL.

2.0 PRECAUTIONS AND LIMITATIONS

Actions specified within this procedure, unless preceded with “should” or “may,” are to be considered mandatory guidance (i.e., “shall”).

The hazard level for field activities and office work described in this procedure is a **LOW hazard** rating and does not require an Integrated Work Document (IWD).

Inspections or walk-downs may be discontinued during periods or conditions that make sites dangerous for worker safety or prevent personnel from safely accessing sites (e.g., weather-related events such as flash floods, flooding, lightning, wildfires, hail, icy roads, deep snow, or LANL operations such as firing shots or open burning).

MSGP Corrective Actions	EPC-CP-QP-2109	Page 6 of 39
	Revision: 0	Effective Date: 06/02/2022

3.0 PREREQUISITE ACTIONS

3.1 Planning and Coordination

DEPs and EPC-CP MSGP stormwater personnel require a CAR database user account ([MSGP-CAR](#)). Facility Operations Directors (FODs), Operations (Ops) Managers and other managers can request a read-access account by contacting the EPC-CP MSGP data administrator for access.

3.2 Tools and Equipment

Tools and equipment for documenting inspections and updating the CAR database include the following:

- LANL issued desktop computer, tablet or notebook style computer with Safari web browser and Blackberry UEM™ app. (See <https://int.lanl.gov/policy/documents/P217.pdf> for requirements on using portable electronic devices (PEDs) on Laboratory property); and
- Access to the CAR database.

Tools and equipment for field work associated with performing inspections and site walk-downs are listed below.

- Sturdy hiking boots or steel or composite toed shoes with soles that grip.
- Safety glasses, if required by site.
- Government issued cell phones are not allowed in secure spaces. Government or privately owned vehicles located inside a LANL secure area but outside any Secure Space boundaries (e.g., the outside of a building) serve as approved storage containers for controlled PEDs. See <https://int.lanl.gov/policy/documents/P217.pdf> for requirements on using PEDs on Laboratory Property.)
- Copy of this procedure.
- Copy of facility specific Stormwater Pollution Prevention Plan (SWPPP) and map(s) (as needed).
- Necessary access.
- Stockpile of temporary and permanent stormwater control measures (SCMs), e.g., inlet protection, absorbent pads for spills, gravel bags, S-Fence, wattles, etc.

4.0 ROLES AND RESPONSIBILITIES

Specific roles and responsibilities for implementation of requirements contained in the MSGP are provided below.

4.1 EPC-CP MSGP Stormwater Personnel

EPC-CP MSGP stormwater personnel are fully knowledgeable of the specific regulatory requirements identified in the MSGP. Additional responsibilities are listed below.

MSGP Corrective Actions	EPC-CP-QP-2109	Page 7 of 39
	Revision: 0	Effective Date: 06/02/2022

- Implement this procedure.
- Oversee the corrective action process.
- Identify an AIM triggering condition or other conditions requiring corrective action during internal routine facility inspections, “no exposure” assessments, and/or facility walk-downs performed by them, or during evaluation of monitoring data when permit limits are exceeded.
- Perform a quality review of conditions requiring corrective action submitted in the CAR database.
- Notify managers and/or legal counsel of non-compliances.
- Assist DEPs and other customers with issues associated with the CAR database.
- Prepare and submit 45-day or 90-day exceedance notifications to Region 6, Environmental Protection Agency (EPA) containing information provided by the DEP.
- Prepare and submit the Annual Report summarizing all conditions requiring corrective action for the year in EPA’s electronic NPDES eReporting tool (NeT).
- Prepare management requested metrics relative to conditions requiring corrective action.
- Provide information to the Issues Management Coordinator (IMC) for entering permit limit exceedances and other permit violations into the Issues Management (IM) tool; and
- Train personnel to use the CAR database.

4.2 Deployed Environmental Professionals

DEPs will be fully knowledgeable of the site-specific SWPPP for their assigned sites and corrective action requirements identified in the MSGP. As part of training, they will conduct an MSGP Routine Facility Inspection (RFI) with the MSGP Program Lead, or other designee, a minimum of once per year. During this activity, the MSGP Program Lead will determine if additional joint inspections are needed and will coordinate any additional inspections with the DEP, as appropriate. Further, they shall be familiar with facility operations and stormwater control measures to minimize potential pollutant sources in stormwater discharge from the site, and proactively maintain control in an attempt to prevent conditions that require corrective action.

The DEPs are responsible for implementing this procedure. They will identify conditions requiring corrective actions observed at their industrial sites and enter them into the CAR database. DEPs act as a liaison between the FOD, EPC-CP, DEP Team Leader, Operations Manager, and facility/operations personnel to ensure all corrective actions and AIM triggering conditions are addressed appropriately by overseeing maintenance and/or installation of additional controls, as needed. DEPs are responsible for ensuring a corrective action is completed per MSGP requirements and the corrective action timeline (see Parts 5.1.3, 5.2, and 5.2.2 of the MSGP). They also provide timely updates to the CAR database for closure or update of corrective actions as they are implemented.

MSGP Corrective Actions	EPC-CP-QP-2109	Page 8 of 39
	Revision: 0	Effective Date: 06/02/2022

When permit limits are exceeded, DEPs facilitate review of the condition requiring corrective action by the Stormwater Pollution Prevention Team and coordinate the effort to identify the source and maintain existing controls, as well as implement additional controls, to prevent further exceedances.

If the DEP or EPC-CP MSGP stormwater personnel determine that additional controls are necessary, or that existing controls are insufficient and require replacement with a different type of control, the DEPs are responsible for the selection and oversight of proper installation of appropriate control measures per guidance provided in the [LANL Stormwater BMP Manual](#).

CAUTION

Failure to appropriately control pollutant discharges can result in fines and penalties.

Implementing the same SCM numerous times without an improvement in minimization of off-site pollutants is an indication that the control measure is not stringent enough to meet Technology-Based or Water Quality-Based effluent limits or AIM triggering conditions identified in the MSGP. AIM level triggering conditions require sequential and increasingly robust responses when a benchmark exceedance occurs and require additional SCMs to be implemented.

DEPs will notify the EPC-CP MSGP data administrator or MSGP Program Lead of key personnel changes (FOD, Ops Manager, additional DEP, or other key managers) to ensure automated CAR status notifications are distributed to appropriate personnel.

4.3 EPC-CP Storm Water Permitting/Compliance Team Leader

The EPC-CP Storm Water Permitting/Compliance Team Leader (or team leader) is responsible for compliance oversight relative to the MSGP. The team leader will ensure resources needed to implement the regulatory requirements identified in the MSGP are identified and environmental risks are assessed. Upper management will be notified of these resources or environmental risks, as deemed necessary. The team leader may certify MSGP discharge monitoring reports or RFIs. In the event there is a dispute regarding the regulatory requirements contained in the MSGP, the team leader will make the final determination of the required action. The team leader notifies upper management of instances of non-compliance with the permit.

4.4 EPC-CP Group Leader

The EPC-CP Group Leader or designee is responsible for ensuring there are adequate resources to implement the regulatory requirements identified in the MSGP. The group leader may also act as the duly authorized signatory that certifies the Annual Report. The group leader notifies upper management of instances of non-compliance with the permit or other identified environmental risk.

4.5 DEP Team Leader

The DEP Team Leader works with programmatic entities and the FOD to identify resources for their industrial sites to ensure permit requirements are implemented. The team leader is responsible for

MSGP Corrective Actions	EPC-CP-QP-2109	Page 9 of 39
	Revision: 0	Effective Date: 06/02/2022

the performance of DEPs. The team leader also provides oversight for ensuring that industrial sites are complying with the MSGP and is responsible for coordinating with the EPC-CP Storm Water Permitting/Compliance Team Leader and MSGP Program Lead and/or upper management for instances of non-compliance with the permit or other identified environmental risk the team leader becomes aware of. In addition, the DEP Team Leader may certify MSGP SWPPPs.

4.6 Facilities Operations Director

The FOD provides organizational leadership to ensure that all facility and programmatic activities under their authority are performed in compliance with the MSGP. The FOD is also responsible for establishing an environmental compliance envelope. The FOD is responsible for developing, implementing, enforcing, and maintaining the SWPPP, and is accountable for SWPPP requirements applicable to their facility. In addition, they are responsible for maintaining trained and qualified DEPs and Waste Management Coordinators (WMCs) on staff.

5.0 PROCESS DESCRIPTION

Requirements regarding corrective actions are described in Part 5 of the MSGP. These requirements and conditions are summarized in this section and directly correspond to data fields and lists of values available in the CAR database.

5.1 Identifying Conditions Requiring Corrective Actions

DEP

[1] **IF** any of the following conditions are identified,

THEN review and revise, as appropriate, the selection, design, installation, and implementation of control measures in the SWPPP to eliminate the condition and prevent recurrence in the future so LANL's effluent limits are met, and pollutant discharges are minimized.

- An unauthorized release or discharge (e.g., spill, leak, or discharge of non-stormwater not authorized by the MSGP [see Section 5.6 of this procedure for a description of allowable discharges]).
- A discharge violates a numeric effluent listed in Table 2-1 of the MSGP and/or sector-specific requirements identified in Part 8 of the permit.
- SCMs are not stringent enough for stormwater discharge to be controlled as necessary such that the receiving water of the United States will meet applicable water quality standards or to meet the non-numeric effluent limits in the permit.
- It is observed during the routine facility inspection, facility walk-down, and/or the quarterly visual assessment that the control measures are not being properly operated and maintained.
- An AIM triggering condition occurred (i.e., the average of four quarterly sampling results exceeds an applicable benchmark).

MSGP Corrective Actions	EPC-CP-QP-2109	Page 10 of 39
	Revision: 0	Effective Date: 06/02/2022

- A visual assessment shows evidence of stormwater pollution.
- Construction or a change in design, operation, or maintenance at the facility significantly changes the nature of pollutants discharged in stormwater from the facility, or significantly increases the quantity of pollutants discharged.

DEP and/or EPC-CP MSGP stormwater personnel

- [2] Enter all conditions triggering the need for corrective action review into the EPC-CP MSGP CAR database within 24 hours of becoming aware of such condition.

DEP and/or Facility Personnel (e.g., the Stormwater Pollution Prevention Team)

- [3] Take immediate action to mitigate the condition requiring a corrective action.
- [4] If needed, follow the permit timeline and process for an individual corrective action or AIM level triggering condition that requires maintenance or installation of additional SCMs.
- [5] Any person authorized to conduct work at LANL can identify a potential stormwater issue. If this occurs, they will:
- [a] Contact the DEP or EPC-CP MSGP stormwater personnel.
 - [b] The DEP or EPC-CP MSGP stormwater personnel will determine if a condition exists that requires a corrective action or AIM level triggering condition.

5.2 Corrective Action and AIM Level Deadlines and Documentation

Specific deadlines for taking corrective action or additional implementation measures, as well as required documentation are provided in the subsections below.

5.2.1 Immediate Action

DEP and/or Facility Personnel (e.g., the Stormwater Pollution Prevention Team)

- [1] **IF** a condition exists that requires corrective action, as described in Section 5.1 [1], **THEN** take the following action immediately (on the same day the condition is found):
- [a] Minimize or prevent the discharge of pollutants, taking all reasonable steps necessary, until a permanent solution is installed and made operational.
 - [b] Clean up any contaminated surfaces so that material will not discharge during subsequent storm events.

NOTE

For minor conditions, immediate action is often sufficient, and no additional action is necessary.

MSGP Corrective Actions	EPC-CP-QP-2109	Page 11 of 39
	Revision: 0	Effective Date: 06/02/2022

- [2] **IF** a condition is identified at a time in the workday when it is too late to initiate corrective action (i.e., 3:00 pm or later),

THEN:

- [a] Corrective action will begin no later than the following workday morning.
- [b] Implement the requirements identified in Section 5.2.1 [1] above.
- [c] Enter the following information in the MSGP CAR database:
 - For spills or leaks provide a description of the incident and include material, date/time, amount, location, why the spill occurred and whether it resulted in the discharge of pollutants to waters of the U.S., through stormwater discharge or otherwise.
 - Date the condition was identified; and
 - Description of immediate actions taken (see Part 5.1.3.1) to minimize or prevent the discharge of pollutants. For spills or leaks, include the response actions, date/time clean-up was completed, notification made, and the staff involved. Include any measures taken to prevent the reoccurrence of such releases.

CAUTION

Solely calling or e-mailing personnel to request action to be taken is not considered taking immediate action. Entering a Facility Service Request (FSR) is appropriate if it formally starts the work process to address the condition. Temporary Best Management Practices (BMPs) still need to be put in place to minimize or prevent off-site migration of pollutants, especially if a storm event is likely.

5.2.2 Subsequent Action

DEP and/or Facility Personnel (e.g., the Stormwater Pollution Prevention Team)

- [1] **IF** additional action is required,

THEN:

- [a] Complete the corrective action (e.g., install a new, or modify an existing stormwater control and make it operational, or complete a repair) before the next storm event or within 14 calendar days from the time of discovery.
- [b] For an AIM Level 1 exceedance, review the SWPPP and implement additional measures (considering good engineering practices) that will bring the exceedance below the benchmark threshold.
- [c] When a determination is made that no additional action is required, document in the CAR database, why existing control measures will bring the exceedance (for AIM Level 1) below the benchmark threshold for the next 12 months.

MSGP Corrective Actions	EPC-CP-QP-2109	Page 12 of 39
	Revision: 0	Effective Date: 06/02/2022

- [d] Enter the dates when each condition was completed (or is expected to be completed) in the CAR database.
- [2] **IF** completion of the corrective action is infeasible within the 14-day timeframe, **THEN:**
 - [a] Document the rationale and a schedule for completion of the corrective action in the CAR database.
 - [c] Complete the corrective action within 45 days of discovery.
 - [d] Modify the SWPPP (within 14 calendar days of completing corrective action work) to add changes to controls or administrative procedures.
- [3] **IF** completion of the corrective action will not occur within the 45-day timeframe, **THEN:**
 - [a] On day 40, notify the EPC-CP Program Lead that the 45-day timeframe will be exceeded. Provide a schedule for completion of the corrective action and rationale for the extension. An extension beyond 45 days is not permitted for an AIM Level 1 exceedance.

NOTE

These time intervals are not grace periods, but are schedules considered reasonable for documenting findings and for making repairs and improvements. They are included in the MSGP to ensure that the conditions prompting the need for these repairs and improvements do not persist indefinitely (see Part 5.1.3.2 of the MSGP).

EPC-CP MSGP stormwater personnel

- [b] Prepare and submit 45-day exceedance notification to EPA Region 6 by day 45 based on information entered into the CAR database by the DEPs.
- [4] In the case of an AIM Level 1 exceedance, send out notification to EPC-CP stormwater field personnel to stop monitoring at the outfall for the parameter that exceeded benchmark.
 - [a] Once the condition requiring corrective action has been closed, send notification to EPC-CP stormwater field personnel to start monitoring at the outfall for the parameter that exceeded benchmark.
- [5] Continue quarterly benchmark monitoring for the next four quarters for the parameter(s) that caused the AIM triggering condition, beginning no later than the next full quarter after completion of additional measures.

MSGP Corrective Actions	EPC-CP-QP-2109	Page 13 of 39
	Revision: 0	Effective Date: 06/02/2022

- [6] **IF** continued quarterly benchmark monitoring results indicate an AIM triggering condition has not occurred after four quarters of monitoring,

THEN:

- [a] Discontinue benchmark monitoring for that parameter until monitoring resumes in year 4 of the permit or discontinue monitoring for the remainder of the permit term (if after year four).

5.2.3 AIM Level 2

DEP and/or Facility Personnel (e.g., the Stormwater Pollution Prevention Team)

- [1] **IF** an AIM Level 2 exceedance occurs,

THEN:

- [a] Review the SWPPP, and
- [b] Implement additional pollution prevention/good housekeeping SCMs (considering good engineering practices) within 14 calendar days of identification, beyond what was implemented for the AIM Level 1 response. This action is expected to be sufficient to bring the exceedance below the benchmark threshold.

- [2] **IF** completion of the corrective action is infeasible within the 14-day timeframe,

THEN:

- [a] Document the rationale and provide a schedule for completion of the corrective action in the CAR database.
- [b] Complete the corrective action within 45 days of identification of the condition.
- [c] Update the CAR database to include:

- Actions taken and/or outstanding, and
- Date and time the corrective action was completed.

- [3] **IF** completion of the corrective action will not occur within the 45-day timeframe,

THEN:

- [a] On day 40, notify the EPC-CP Program Lead that the 45-day timeframe will be exceeded. Provide a schedule for completion of the corrective action and rationale for the extension.

EPC-CP MSGP stormwater personnel

- [b] Prepare and submit the 45-day exceedance notification to EPA Region 6 based on information entered into the CAR database by the DEP.
- [4] Send out notification to EPC-CP stormwater field personnel to stop monitoring at the outfall for the parameter that exceeded benchmark.

MSGP Corrective Actions	EPC-CP-QP-2109	Page 14 of 39
	Revision: 0	Effective Date: 06/02/2022

- [a] Once the condition requiring corrective action has been closed, send notification to EPC-CP stormwater field personnel to start monitoring at the outfall for the parameter that exceeded benchmark.
- [5] Continue quarterly benchmark monitoring for the next four quarters for the parameter(s) that caused the AIM triggering condition, beginning no later than the next full quarter after completion of additional measures.
- [6] **IF** continued quarterly benchmark monitoring results indicate an AIM triggering condition has not occurred after four quarters of monitoring,
THEN:
 - [a] Discontinue benchmark monitoring for that parameter until monitoring resumes in year 4 of the permit or discontinue monitoring for the remainder of the permit term (if after year four).

5.2.4 AIM Level 3

DEP and/or Facility Personnel (e.g., the Stormwater Pollution Prevention Team)

- [1] **IF** an AIM Level 3 exceedance occurs,
THEN:
 - [a] Identify the schedule for installing the appropriated structural source and/or treatment SCMs within 14 days.
 - [b] Install structural source controls (e.g., permanent controls such as permanent cover, berms, and secondary containment), and/or treatment controls (e.g., sand filters, hydrodynamic separators, oil-water separators, retention ponds, and infiltration structures) within 60 days.
 - [c] Controls, treatment technologies, or treatment train will be appropriate for the pollutants that triggered the AIM Level 3 and must be more rigorous than the control measures implemented for the AIM Level 1 and 2 responses.
- 2] **IF** completion of the corrective action is infeasible within the 60-day timeframe,
THEN:
 - [a] Document the rationale and provide a schedule for completion of the corrective action in the CAR database.
 - [b] Complete corrective action within 90 days of identification of the condition.
 - [c] Update the CAR database to include:
 - Actions taken and/or outstanding, and
 - Date and time the corrective action was completed.
- [3] **IF** completion of the corrective action will not occur within the 90-day timeframe,
THEN:

MSGP Corrective Actions	EPC-CP-QP-2109	Page 15 of 39
	Revision: 0	Effective Date: 06/02/2022

- [a] On day 85, notify the EPC-CP Program Lead that the 90-day timeframe will be exceeded. Provide a schedule for completion of the corrective action and rationale for the extension.

EPC-CP MSGP stormwater personnel

- [b] Prepare and submit the 90-day exceedance notification to EPA Region 6 by day 90 based on information entered into the CAR database by the DEP.
- [4] Send out notification to EPC-CP stormwater field personnel to stop monitoring at the outfall for the parameter that exceeded benchmark.
- [a] Once the condition requiring corrective action has been closed, send notification to the EPC-CP stormwater field personnel to start monitoring at the outfall for the parameter that exceeded benchmark.
- [5] Continue quarterly benchmark monitoring at all affected outfalls for the next four quarters for the parameter(s) that caused the AIM triggering condition, beginning no later than the next full quarter after completion of additional measures.
- [6] **IF** continued quarterly benchmark monitoring results indicate an AIM triggering condition has not occurred after four quarters of monitoring,
THEN:
- [a] Discontinue benchmark monitoring for that parameter until monitoring resumes in year 4 of the permit or discontinue monitoring for the remainder of the permit term (if after year four).
- [7] **IF** continued quarterly benchmark monitoring results indicate an AIM triggering event has occurred after four quarters of monitoring,
THEN:
- [a] EPA may require the operator to apply for an individual permit.

5.2.5 AIM Exceptions

An AIM Level exceedance may qualify for an exception from specific AIM requirements and continued benchmark monitoring, provided the requirements to demonstrate qualification of the exception are followed (see Parts 5.2.6.1 through 5.2.6.5 of the permit). These exceptions include the following:

- Solely attributable to natural background pollutant levels;
- Due to run-on;
- Due to an abnormal event;
- Demonstrated to not result in an exceedance to facility-specific value using the national recommended water quality criteria in-lieu of the applicable MSGP benchmark threshold (for aluminum and copper benchmark parameters only); or
- Demonstrated to not result in any exceedance of water quality standards.

MSGP Corrective Actions	EPC-CP-QP-2109	Page 16 of 39
	Revision: 0	Effective Date: 06/02/2022

There are very specific and complicated documentation requirements and time frames that have to be met to qualify for any of these exceptions. Therefore, any demonstration to qualify for an exception will be coordinated through a representative of the EPC-CP Storm Water Permitting/Compliance Team.

5.3 Effect of Corrective Action

When the condition requiring corrective action is a permit violation (e.g., non-compliance with an effluent limit or exceedance of a water quality standard), correcting it does not remove the original violation. Additionally, failing to take corrective action in accordance with Part 5 of the MSGP is an additional permit violation.

NOTE

The EPA will consider the appropriateness and promptness of corrective action in determining enforcement responses to permit violations (Part 5.1.4 of the MSGP).

5.4 Substantially Identical Discharge Points

When the condition requiring corrective action is associated with an outfall that has been identified as a “substantially identical discharge point” (see Parts 3.2.4.5 and 4.1.1 of the MSGP), a review will assess the need for corrective action for all related substantially identical discharge points. Any necessary changes to control measures that affect these other discharge points will be made before the next storm event (if possible), or as soon as practicable following that storm event. Any condition requiring corrective action(s) will be addressed within the timeframes set forth in Parts 5.1.3, 5.2.3.2, 5.2.4.2 and 5.2.5.2 of the MSGP (also see Section 5.2 of this procedure).

5.5 Spills

DEP and/or Facility Personnel

[1] Clean up all leaks or spills immediately and enter the condition requiring corrective action into the CAR database.

[a] If the spill is immediately cleaned up, and controls are implemented to prevent further leakage, the condition requiring corrective action can be closed.

5.6 Allowable Non-Stormwater Discharges

The following are allowable non-stormwater discharges authorized by the MSGP:

- Discharges from emergency/unplanned fire-fighting activities;
- Fire hydrant flushing;
- Potable water, including water line flushing;

MSGP Corrective Actions	EPC-CP-QP-2109	Page 17 of 39
	Revision: 0	Effective Date: 06/02/2022

- Uncontaminated condensate from air conditioners, coolers/chillers, and other compressors and from the outside storage of refrigerated gases or liquids;
- Irrigation/landscape drainage, provided all pesticides, herbicides, and fertilizers have been applied in accordance with the approved labeling;
- Pavement wash waters, provided that detergents or hazardous cleaning products are not used (e.g., bleach, hydrofluoric acid, muriatic acid, sodium hydroxide, nonylphenols), and wash waters do not come into contact with oil and grease deposits, sources of pollutants associated with industrial activities (see Part 6.2.3 of the MSGP), or any other toxic or hazardous materials, unless residues are first cleaned up using dry clean-up methods (e.g., applying absorbent material and sweeping, using hydrophobic mops/rags) and appropriate control measures have been implemented to minimize discharges of mobilized solids and other pollutants (e.g., filtration, detention, settlement);
- External building/structure washdown / power wash water that does not use detergents or hazardous cleaning products (e.g., those containing bleach, hydrofluoric acid, muriatic acid, sodium hydroxide, nonylphenols) and control measures are in place to minimize discharge of mobilized solids and other pollutants (e.g., filtration, detention, settlement);
- Uncontaminated ground water or spring water;
- Foundation of footing drains where flows are not contaminated with process materials;
- Incidental windblown mist from cooling towers that collects on rooftops or adjacent portions of the facility, but not intentional discharges from the cooling tower (e.g., “piped” cooling tower blowdown or drains); and
- Any authorized non-stormwater discharge (see above bullets) or any stormwater discharge authorized by the permit mixed with a discharge authorized by a different NPDES permit and/or discharge that does not require NPDES permit authorization.

5.7 Entering a Condition Requiring Corrective Action

To enter a condition requiring corrective action into the CAR database, perform the steps in this section.

Enter clear, complete, and concise language. Correct grammar, punctuation, and spelling errors.

Select the appropriate value from each pull-down menu that applies to the condition requiring corrective action. This information is used to populate a report submitted to the EPA and is extracted from the database to populate automatic e-mail notifications to managers. Therefore, it is critical that all information entered into the CAR database is correct.

DEP or EPC-CP MSGP stormwater personnel

- [1] Using Firefox, Chrome, or Edge, access the CAR database at epc.lanl.gov.
- [2] From the main screen, click on “Multi-Sector General Permit Corrective Action Report (MSGP-CAR).”

MSGP Corrective Actions	EPC-CP-QP-2109	Page 18 of 39
	Revision: 0	Effective Date: 06/02/2022

[3] Click on “Enter/Edit CAR Data.”

[4] Click on the black box at the right of the screen “Create New CAR.”

[a] Enter the following (refer to Attachment 1 for data entry screenshot cross reference to **Item numbers in red** listed below):

- **Item 1:** Name of facility by clicking on the down indicator and selecting the relevant facility (e.g., TA-55-0005 Warehouse). If the correct facility does not show up, hit the “Load More Rows” button at the bottom of the screen.
- **Item 2:** Provide information about the specific location where the condition requiring corrective action was found (e.g., the northeast corner of the TA-60 Material Recycling Facility).
- **Item 3:** Date/Time the problem was identified (mm/dd/yyyy hh:mm) (*the inspection date or the date you first become aware of the issue*). Click on the calendar to the right of the screen and select the correct date. Change the gray buttons to indicate the correct time (hh:mm).

All dates and times will be entered as mm/dd/yyyy hh:mm in 24-hr (military time) format. Time is tracked to document whether immediate action was taken, whether the issue was documented within 24 hours, and the specific time interval before a corrective action is completed and closed (see Section 5.2 of this procedure for corrective action and AIM Level deadlines). Do not leave time as 00:00 (the system default) unless the action occurred at midnight.

- **Item 4:** FOD by clicking on the down button on the right of the screen and selecting the correct entity (e.g., WFO).
- **Item 5:** Date/Time of Notification to EPC-CP (mm/dd/yyyy hh:mm) (*the date the condition is entered into the CAR database or verbal, or written notification is provided to the EPC-CP MSGP Program Lead. Conditions reported by verbal or written notification must still be entered into the CAR database.*) Click on the calendar to the right of the screen and select the correct date. Change the gray buttons to indicate the correct time (hh:mm). All dates and times will be entered as mm/dd/yyyy hh:mm in 24-hr (military time) format.
- **Item 6:** Provide the Z number of the Inspector by typing in the actual Z number, if not already populated correctly. The Z number of the person logged into the database will populate this field.
- **Item 7:** Provide the Z number of the person that identified the condition requiring corrective action, if not already populated correctly. The Z number of the person logged into the database will populate this field.

Any person authorized to conduct work at LANL can identify a potential stormwater issue. If this occurs, they will contact the DEP or EPC-CP MSGP stormwater personnel who will determine if a condition exists that requires corrective action.

MSGP Corrective Actions	EPC-CP-QP-2109	Page 19 of 39
	Revision: 0	Effective Date: 06/02/2022

- **Item 8:** Report status defaults to “A new corrective action” without making a selection. In the event a condition is entered that is determined to not require corrective action, this status can be changed to “Void” by clicking in the box and selecting from the Status list. The decision to assign a status of “Void” is at the discretion of EPC-CP MSGP stormwater personnel and reserved for EPC-CP use.
- **Item 9:** If the Status is changed to “Void,” enter a clear rationale for voiding the record.
- **Item 10:** Once all the above information is entered correctly, click “Save.” Once the CAR is saved, the system will return to the CAR Data page, and your newly created CAR will be at the top of the list.

All boxes identified with a red triangle are “required fields” meaning the form cannot be saved unless these fields are completed. For the purpose of fulfilling corrective action documentation requirements, all applicable fields are required fields.

[b] The system will automatically assign a Corrective Action Report identification (ID) number. Once the CAR is saved, the system will return to the CAR Data page, and your newly created CAR will be at the top of the list. Click on the pencil in the left part of the screen, then click “Create Finding Details” at the bottom right corner to enter finding information (see Attachment 1 page 4). Enter the following:

- **Item 11** (see Attachment 1 page 5 of 7): Identify the condition triggering the need for this review by clicking on the down indicator at the right of the screen and selecting the appropriate condition. Most conditions requiring corrective action will meet one of the listed options. If it does not, select “Other” and enter a description of the condition (refer to Attachment 2 for a list of available conditions/finding descriptions).

Qualified personnel (EPC-CP MSGP stormwater personnel and DEPs) must be knowledgeable of these conditions and select the correct one when entering an issue. If there is uncertainty about which condition applies, refer to the definitions in Section 8.1 of this procedure or contact the MSGP Program Lead at 667-1312 or hbenson@lanl.gov for clarification prior to selecting “Other.”

- **Item 12:** If the condition in Item 11 (above) is set to “Other,” enter a description of the condition in this field.
- **Item 13:** Enter “NA” (not applicable) for “outfall” unless the condition is an exceedance of a benchmark value, or numeric effluent limitation guideline (ELG), or the condition occurred at the MSGP outfall such as pollutants identified during a quarterly visual inspection (e.g., 022).
- **Item 14:** Briefly describe the nature of the problem identified during the inspection (e.g., erosion, damage to a SCM, trash, spill, etc.) and the specific evaluation location (e.g., at TA-60 Roads and Grounds).

MSGP Corrective Actions	EPC-CP-QP-2109	Page 20 of 39
	Revision: 0	Effective Date: 06/02/2022

Spills or other emergency conditions meeting the criteria for corrective action (identified in Part 5.1 of the MSGP) will require documentation in the CAR database even though the condition was not identified during an inspection.

- **Item 15:** Enter “NA” for “AIM Level” unless an AIM triggering event has occurred. Only EPC-CP MSGP stormwater personnel enter this information.
- **Item 16:** Enter “NA” unless EPA Region 6 has approved documentation provided requesting the AIM exception. Only EPC-CP MSGP stormwater personnel enter this information.
- **Item 17:** Enter the inspection type by clicking on the downward arrow to the right of the screen and selecting the appropriated option. If none of the available options fit, selecting “Other.”
- **Item 18:** If “Other” is selected for Item 17 (above), enter a description of how the problem was identified in this field.
- **Item 19** (see Attachment 1 page 6 of 7): Enter a description of the condition requiring corrective action or identify action to be taken to eliminate or further investigate the problem (e.g., describe modifications or repairs to control measures, work conducted to address the condition or to be scheduled in the future, etc.) or if no modifications are needed, the basis for that determination. Include relevant dates and facts when updating this field as the corrective action progresses.
- **Item 20:** Indicate whether the problem was identified at a Substantially Identical Discharge Point (SIDP) by typing “Y” for yes and “N” for no.
- **Item 21:** If the answer to Item 20 is “Y,” enter the associated SIDP(s) in this field. If the answer to Item 20 is “N,” leave this field blank. SIDPs are identified in the site-specific SWPPPs. For assistance with identifying SIDPs contact the MSGP Program Lead.
- **Item 22:** If the answer to Item 20 is “Y,” describe how the corrective action taken is appropriate for all SIDPs, document any additional corrective action(s) needed for any of the SIDPs, or document why no additional action is needed for the SIDPs. If the answer to Item 20 is “N,” leave this field blank.
- **Item 23:** Did/will the corrective action require modification to the SWPPP? Type in “Y” for yes and “N” for no.
- **Item 24:** Date/Time Corrective Action was initiated (mm/dd/yyyy hh:mm).

The duration between the Date/Time problem was identified and Date/Time corrective action was initiated is used to determine whether “immediate action” was taken (see Section 5.2.1 of this procedure). Immediate action is a requirement of the MSGP and therefore, is documented in accordance with permit requirements.

MSGP Corrective Actions	EPC-CP-QP-2109	Page 21 of 39
	Revision: 0	Effective Date: 06/02/2022

- **Item 25** (see Attachment 1 page 7 of 7): Date/Time corrective action was completed **OR** (see Item 26 below).
- **Item 26:** Expected completion Date/Time (mm/dd/yyyy hh:mm), if the corrective action has not been completed. Once corrective action is complete [(as identified in Item 25 (above))], delete expected completion date. The system will not allow entry of a date in both locations.

The duration between the Date/Time Problem was identified and Date/Time corrective action was completed, or the Date/Time Problem was identified and expected completion Date/Time is used to determine whether “subsequent action” timeframes and documentation requirements were/are being met. To forecast where a 45-day or 90-day (for AIM Level 3) exceedance notification to EPA is required (see Sections 5.2.2 and 5.2.4 of this procedure). When information is incorrect or not entered, the MSGP data administrator or Program Lead will contact the originator and request correction(s).

- **Item 27:** If the corrective action is not or will not be completed within 14 days (or 60 days for AIM Level 3), provide the status of the corrective action at the end of the 14- or 60-day timeframe. Include the rationale for why it is infeasible to complete the corrective action within 14 days, and a description of any remaining steps (including timeframe/schedule associated with each step) necessary to complete the corrective action.
- **Item 28:** Date EPA was notified of intent to exceed 45 Days (mm/dd/yyyy hh:mm) is to be completed by EPC-CP MSGP stormwater personnel to document submittal of notification letter.
- **Item 29:** Date EPA was notified of intent to exceed 90 Days (for AIM Level 3) (mm/dd/yyyy hh:mm) is to be completed by EPC-CP MSGP stormwater personnel to document submittal of notification letter.
- **Item 30:** Enter the date monitoring changed back to baseline status. This information is to be completed by EPC-CP MSGP stormwater personnel based on evaluation of benchmark monitoring.

Once all the above information is entered correctly, click “Save” in the lower right portion of the screen so the corrective action information is retained.

[5] **IF** there are additional conditions to enter requiring corrective action, as described in Section 5.1 [1],

THEN perform these steps:

[a] Click on the “Enter or Edit CAR Data” tab at the top of the screen.

[b] Start with Section 5.7, steps 3 and 4 above and enter the information for Items #1-30.

MSGP Corrective Actions	EPC-CP-QP-2109	Page 22 of 39
	Revision: 0	Effective Date: 06/02/2022

5.8 Updating Corrective Actions

DEP or EPC-CP MSGP stormwater personnel

- [1] Access the CAR database at epc.lanl.gov.
 - [a] On the Environmental Protection Compliance (EPC) Applications page click “Multi-Sector General Permit Corrective Action Report (MSGP-CAR).”
 - (b) Click “Enter/Edit CAR Data and scroll down to the corrective action number to be edited.
 - [b] Click on the pencil associate with the CAR # to be edited.
- [2] Navigate to the desired field and input the updated information. Most changes will occur relative to updating the status, schedule, and dates of corrective actions.
- [3] Click “Apply Changes” on the bottom right portion of the screen to save all changes to the information. If you do not want to save the change(s), hit the “Cancel” button on the bottom left side of the screen.

5.9 Validation of Corrective Actions

EPC-CP MSGP stormwater personnel

- [1] Access the CAR database at epc.lanl.gov.
- [2] Ensure information entered into the CAR database is correct.
 - [a] Check all entered fields for a condition requiring corrective action to ensure that information is clear, correct, and concise.
 - [b] **IF** not,
THEN notify the DEP of the information that needs to be changed.
 - [c] The DEP is responsible for ensuring all information is validated before generating the annual report.
- [3] **IF** the identified condition requiring corrective action is a repeat of a previous condition or if it is determined not to be a condition requiring corrective action,
THEN
 - [a] Under “Report Status,” select “Void.”
 - [b] Provide specific documentation as to why the CAR was voided.
 - [c] The “Void” designation allows MSGP stormwater personnel to manually exclude this information in the annual report.

MSGP Corrective Actions	EPC-CP-QP-2109	Page 23 of 39
	Revision: 0	Effective Date: 06/02/2022

5.10 Issues Management

EPC-CP MSGP stormwater personnel or DEPs use the IM tool as the institutional performance issues and tracking system for identified quality assurance (QA) affecting issues. A QA affecting issue includes, but is not limited to, the following conditions.

- Exceedance of a numeric ELG (i.e., at the Asphalt Batch Plant).
- Repeat conditions requiring corrective actions or trends identified by EPC-CP MSGP stormwater personnel.
- Conditions requiring immediate action, where failure to take action would result in pollutants released to waters of the state.
- Immediate non-compliance with the MSGP.
- Violations identified by the regulatory authority.

The MSGP Program Lead periodically evaluates a summary of open conditions requiring corrective actions in the CAR database. Using the above conditions, the MSGP Program Lead or DEP determines which corrective actions, if any, will be transferred into the IM tool.

DEP or EPC-CP MSGP stormwater personnel

- [1] **IF** an issue needs to be entered into the IM tool,
THEN contact the EPC Division IMC for entry into the IM tool.

5.11 Automatic Notifications

- [1] When a new condition requiring corrective action is entered into the CAR database, the FOD, Ops Manager, inspector (usually the DEP) and EPC-CP MSGP stormwater personnel and managers are notified automatically by e-mail on the evening of the day the corrective action was entered.
- [2] Automated e-mail notifications is sent out during the corrective action process depending on the length of time it takes to close the action.
- [3] A notification is sent out when:
- A new corrective action is entered into the database (see Attachment 3);
 - Weekly for outstanding (open) corrective actions (see Attachment 4);
 - A new AIM level (i.e., 1, 2 or 3) triggering event occurs;
 - A corrective action due to a permit limit exceedance is complete; and
 - An AIM level exceedance returns to baseline status.

For all notifications except the last two bullets above, a hyperlink is provided to a web-based report containing a list of all open issues and timeline status where final corrective actions have not been completed (see Attachment 5) by the FOD. The report contains the information:

MSGP Corrective Actions	EPC-CP-QP-2109	Page 24 of 39
	Revision: 0	Effective Date: 06/02/2022

- FOD,
- Facility,
- A unique Corrective Action identification number assigned by the CAR database,
- Name of the person identifying the condition,
- the date the problem was identified,
- the date the corrective action was initiated,
- the projected completion date,
- a color-coded count (corresponding to the Corrective Action deadlines in Section 5.2 et seq. of this procedure) of the number of days to take action,
- the number of days the issue has been open, and
- the problem description.

These notifications serve to apprise recipients of the status of conditions requiring corrective actions and provide sufficient time for MSGP stormwater personnel to provide documentation to EPA at the 45-day or 90-day deadline. These notifications also allow EPC-CP to manage monitoring status when AIM triggering events occur. In short, they assist the FOD, Ops Managers, DEPs, and EPC-CP stormwater personnel with keeping track of conditions requiring corrective actions.

6.0 TRAINING

The following personnel require training before implementing this procedure:

- EPC-CP Group Leader and Team Leader;
- EPC-CP MSGP stormwater personnel;
- DEPs; and
- Other LANL or subcontract personnel identified as being required to conduct stormwater inspections, or other assessments and enter conditions requiring corrective actions into the CAR database as part of their job duties.

The training method for this procedure is “self-study” (reading). Other participating groups may require training documentation pursuant to local procedures. All training must be assigned and tracked using the Laboratory training management system, UTrain.

Personnel performing this procedure will be familiar with the most current version of the following procedure:

- EPC-CP-PIP-2101, NPDES Multi-Sector General Permit Program Implementation Plan.

MSGP Corrective Actions	EPC-CP-QP-2109	Page 25 of 39
	Revision: 0	Effective Date: 06/02/2022

7.0 RECORDS

Conditions requiring corrective actions are contained within the CAR database. DEPs will retain documentation substantiating these conditions, corrective actions, and timelines reported in the CAR database (e.g., e-mails, FSRs, Work Orders, etc., as appropriate). These documents shall be made available to EPC-CP upon request.

All records generated as a result of implementing this procedure will be maintained in accordance with P1020-1, Laboratory Records Management.

8.0 DEFINITIONS AND ACRONYMS

See [LANL Definition of Terms](#).

8.1 Definitions

Best Management Practice (BMP) — Schedules of activities, prohibitions of practices, maintenance procedures, and other management practices to prevent or reduce the pollution of “waters of the United States.” BMPs also include treatment requirements, operating procedures, and practices to control plant site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage. (40 CFR Part 122.2)

Control Measure — Any BMP or other method (including effluent limitations) used to prevent or reduce the discharge of pollutants to waters of the United States.

Numeric effluent limitation — The degree of effluent reduction attainable by the application of the best practicable control technology currently available (see 40 CFR Part 443.12). For LANL, numeric effluent limitations apply only to the Asphalt Batch Plant (Sector D) (see Table 1-1 of the MSGP). Constituents with limitations for Sector D include Total Suspended Solids, pH, and oil and grease (see Table 8.D-3 of the MSGP).

NOTE

Exceedance of a numeric effluent limitation is a violation of the MSGP (see Part 4.2.3.1 of the MSGP).

Non-numeric effluent limitations — Per Part 2.1.2 of the MSGP, these include minimizing exposure, good housekeeping, maintenance, spill prevention and response, erosion and sediment controls, management of runoff, salt storage controls, employee training, elimination of non-stormwater discharges, and minimizing dust generation and vehicle tracking of industrial materials.

Unauthorized release or discharge — The release of any liquid or solid substance (within the boundary of an MSGP site) that is not an allowable non-stormwater discharge (see Section 5.6). Examples are hydraulic oil, gasoline, diesel, powdered concrete, concrete washout, steam condensate line leaks, etc.

MSGP Corrective Actions	EPC-CP-QP-2109	Page 26 of 39
	Revision: 0	Effective Date: 06/02/2022

8.2 Acronyms

See LANL Acronym Master List.

AIM	Additional Implementation Measures
BMP	Best Management Practice
CAR	Corrective Action Report
ELG	Effluent Limitation Guideline
EPA	Environmental Protection Agency
EPC-CP	Environmental Protection and Compliance-Compliance Programs
DEP	Deployed Environmental Professional
ID	Identification
IM	Issues Management
IMC	Issues Management Coordinator
IWD	Integrated Work Document
FOD	Facility Operations Director
FSR	Facility Service Request
LANL or Laboratory	Los Alamos National Laboratory
MSGP	Multi-Sector General Permit
N	No
NA	Not Applicable
NeT	EPA's NPDES eReporting Tool
NPDES	National Pollutant Discharge Elimination System
Ops	Operations
P	Procedure
PD	Program Description
PED	Portable Electronic Device
RFI	Routine Facility Inspection
QA	Quality Assurance
QP	Quality Procedure
SCM	Stormwater Control Measure
SD	System Description
SIDP	Substantially Identical Discharge Point
SWPPP	Stormwater Pollution Prevention Plan
Triad	Triad National Security, LLC
WMC	Waste Management Coordinator
40 CFR	Title 40 of the Code of Federal Regulations

MSGP Corrective Actions	EPC-CP-QP-2109	Page 27 of 39
	Revision: 0	Effective Date: 06/02/2022

Y	Yes
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9.0 REFERENCES

Final National Pollutant Discharge Elimination System (NPDES) General Permit for Stormwater Discharges from Industrial Activities. Federal Register: June 16, 2015, Volume 80, Number 115.

[United States Environmental Protection Agency \(EPA\) National Pollutant Discharge Elimination System \(NPDES\) Multi-Sector General Permit For Stormwater Discharges Associated With Industrial Activity](#)

[Los Alamos National Laboratory Storm Water BMP Manual](#)

[PD100, DOE/NNSA Approved Los Alamos National Laboratory 10 CFR 851 Worker Safety and Health Program Description](#)

[SD100, Integrated Safety Management System](#)

[P101-18, Procedure for Pause/Stop Work](#)

[P1020-1, Laboratory Records Management](#)

[EPC-CP-QP-2108, MSGP Routine Facility Inspections](#)

10.0 ATTACHMENTS

Attachment 1: Screenshot Examples of CAR Database

Attachment 2: List of Limited Values in the CAR Database

Attachment 3: Example New Corrective Action Finding Notification

Attachment 4: Example Weekly Notification of Outstanding Corrective Action Findings

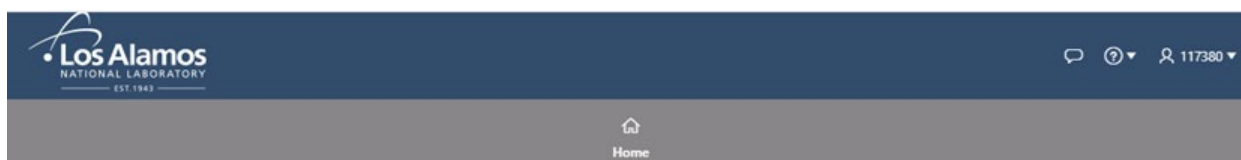
Attachment 5: Example Outstanding Corrective Action Report

MSGP Corrective Actions	EPC-CP-QP-2109	Page 28 of 39
	Revision: 0	Effective Date: 06/02/2022










Attachment 1: Screenshot Example of CAR Database

Page 1 of 7

MSGP-CAR is accessed from the EPC Application page at epc.lanl.gov. To get started, click on “Multi-Sector General Permit Corrective Action Report (MSGP-CAR)” (see yellow highlight below).



Environmental Protection Compliance (EPC) Applications

 EPC Roadmap Click here to view the current EPC Roadmap that shows all scheduled EPC work.	 ChemDB Chemical custodians have easy access to the tools necessary to keep the inventory of chemical containers accurate and complete. Rapid container update capabilities, reports generation, and compliance reporting for management review are examples of this invaluable functionality.	 Land Apply The Land Apply application contains historical data on groundwater discharges (land application) generated from drilling, rehabilitation, development and sampling activities. N3B assumed responsibility for the groundwater monitoring program and land apply activities per the Integrated Facility Groundwater Monitoring Plan, so this application will be used to store/retrieve historical data.
 Multi-Sector General Permit Corrective Action Report (MSGP-CAR) The National Pollutant Discharge Elimination System (NPDES) Multi-Sector General Permit (MSGP) contains specific environmental requirements for identifying, implementing, documenting and reporting conditions requiring corrective actions at permitted industrial facilities. The MSGP-CAR application tracks these conditions, responses, and timelines.	 Polychlorinated Biphenyl Application (PCB) The PCB application is a multi-step approach that LANL uses for tracking toxic PCB Substances until they are disposed and keeping in compliance with 15 USC 2601, 40 CFR 761, EH-413-0007-0009/0702 etc. The PCB application displays all be archived data and allows the user to access and retrieve records as needed.	 Radioactive Waste Storage Area (RADSA) RADSA provides waste generators and waste management coordinators with the ability to maintain registered radioactive storage/staging areas per facility/site at the laboratory. WMP ensures DOE requirements for radioactive waste management and surveillance are in accordance with the approved RWMB. Registered facility self-inspections and surveillance of radioactive staging and storage areas ensures LANL radioactive waste management practices are consistent with the requirements in DOE O/M 435.1.
 Request for Analysis (RFA) The RFA application is used for tracking and editing all Requests for Analysis (RFA) for sampling the waste generators. When an RFA is requested, an email is sent to the coordinators who can review both new and old requests.	 Waste Area Tracking System Application used for tracking and updating waste locations across the lab via waste inspections. The application is used for registering and tracking sites so employees know where waste is stored at the laboratory to easily be identified and inspected. The application also tracks if the waste is active, removed, decommissioned, etc. EPA has regulations how the lab handles hazardous waste and this application helps keep track the information so they can remain compliant with those orders.	 Weather Machine The Weather Machine features GIS data in a redesigned layout with live graphs that track temperature, relative humidity, wind, precipitation and pressure. A regional overview allows users to pan around the Lab's 42 square miles and farther into northern New Mexico and beyond with storm watches and warnings featured from the National Weather Service.

MSGP Corrective Actions	EPC-CP-QP-2109	Page 29 of 39
	Revision: 0	Effective Date: 06/02/2022

Attachment 1: Screenshot Example of CAR Database (cont.)

Page 2 of 7

Home

Enter or Edit CAR Data

Reports

Administration

MSGP-CAR - Multi-Sector General Permit Corrective Action Report (MSGP-CAR)

The National Pollutant Discharge Elimination System (NPDES) Multi-Sector General Permit (MSGP) contains specific environmental requirements for identifying, implementing, documenting and reporting conditions requiring corrective actions at permitted industrial facilities. The MSGP-CAR application tracks these conditions, responses, and timelines.

Enter/Edit CAR Data

Click here to view all MSGP CAR data.

Reports

Click here to view MSGP CAR reports.

Administration

Administration options to control email recipients, user access, etc.

There are two basic functional areas in the system for most users: **Enter/Edit CAR Data** and **Reports**.

Home

Enter or Edit CAR Data

Reports

Administration

CAR Data

	CAR #	FOD	Msgp Facility	Inspection Date	Inspector Name	Problem Description	Corrective Action Initiate Date	Corrective Action Complete Date	Report Status
	2023	UI	TA-60 Roads and Grounds	19-OCT-2021 08:30	SANDOVAL LEONARD F	At approximately 8:30 a.m. a John Deere 310 SE Turbo 4 X 4 backhoe with BC # 804058 leaked less than 1/2 a gallon of diesel fuel on asphalt from a fuel line on the left hand side of the paved road just past the clean fill yard at TA-60 Sigma Mesa. At 9:11 a.m. the backhoe was loaded onto a trailer with a drip pan underneath it and delivered to TA-60 HEY to fix the fuel leak.	19-OCT-21	19-OCT-21	A new corrective action
	2022	UI	TA-60 Roads and Grounds	19-OCT-2021 08:12	SANDOVAL LEONARD F	There's a Porta John next to some trees that needs to be anchored with rope and gravel bags so the wind doesn't blow it over.	19-OCT-21	20-OCT-21	A new corrective action
	2021	UI	TA-60-1 Heavy Equipment Yard	15-OCT-2021 11:15	KNIGHT JACOB L	A LANL dump truck was delivered after being repaired and parked on the west side sloped area. The tank for the diesel exhaust fluid (2/3 water 1/3 urea - non toxic) was full and it leaked approximately 1 pint or less of fluid onto the pavement.	15-OCT-21	15-OCT-21	A new corrective action
	2020	UI	TA-60-1 Heavy Equipment Yard	15-OCT-2021 11:15	KNIGHT JACOB L	Along the south perimeter of the upper yard at TA-60-1 Heavy Equipment there is a fencing replacement project underway. There is some cut metal and debris that needs to be picked up. Also as part of the project the area was cleared of vegetation and there is a lot of trash exposed now that needs cleanup. There was also trash in some drainage areas along the east perimeter of the upper yard.	15-OCT-21	19-OCT-21	A new corrective action


Click Create New CAR (see black button at the right of the screen shot in the example above).

MSGP Corrective Actions	EPC-CP-QP-2109	Page 30 of 39
	Revision: 0	Effective Date: 06/02/2022

Attachment 1: Screenshot Example of CAR Database (cont.)

Page 3 of 7

Corrective Action Details tab


108243

Home
Enter or Edit CAR Data
Reports
Administration

Create/Edit CAR

MSGP Facility 1

Describe Specific Location where Condition was Found 2

Date/Time Problem Identified 3

FOD 4

Date/Time EPC Notified 5

Inspector Zno 6

Person Identifying Condition Zno 7

Report Status 8

Void Comments 9

Fields with a red triangle are required fields and must be filled out so the record can be created 10

Cancel
Save

Attachment 1: Screenshot Example of CAR Database (cont.)

Page 4 of 7

Q v																			Go	Actions v
	CA#	Problem Description	Inspection Type Other Notes	Corrective Action Desc	SWPPP	Corrective Action Initiate Date	Corrective Action Complete Date	Corrective Action Expected Date	Corrective Action Status	SIDP	SIDP Affected	SIDP Action Taken	EPA Notified Date 45d	Finding Other Desc	Outfall	EPA Notified Date 90d	Baseline Date	AIM Level	AIM Exception	
<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><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Cancel

MSGP Corrective Actions	EPC-CP-QP-2109	Page 32 of 39
	Revision: 0	Effective Date: 06/02/2022

Attachment 1: Screenshot Example of CAR Database (cont.)

Page 5 of 7

CA #

2075

Finding Type

Control measures inadequate to meet non-numeric effluent limitations

11

If Other, (describe here):

12

Outfall

NA

13

Problem Description

There is a cut steel plate sitting just outside the canopy used for metal storage in the SE corner of the upper yard

14

AIM Level

NA

15

AIM Exception

NA

16

Inspection Type

Routine facility inspection

17

If Other, (describe here):

18

MSGP Corrective Actions	EPC-CP-QP-2109	Page 33 of 39
	Revision: 0	Effective Date: 06/02/2022

Attachment 1: Screenshot Example of CAR Database (cont.)

Page 6 of 7

Description of corrective action taken or to be taken or if no modifications are needed, the basis for that determination
At the entrance to the TA-60 MRF next the Eco-Bloks there's staining on asphalt that needs to be sprayed with micro-blaze.

19

Was the problem identified at an outfall that has associated SIDPs?

N

20

Which SIDPs are affected?

21

If yes, provide documentation of how corrective action taken is appropriate for all associated SIDPs

22

Does this corrective action require modification of your SWPPP?

N

23

Corrective Action Initiated Date/Time

02-MAR-2022 08:20

24

MSGP Corrective Actions	EPC-CP-QP-2109	Page 34 of 39
	Revision: 0	Effective Date: 06/02/2022

Attachment 1: Screenshot Example of CAR Database (cont.)

Page 7 of 7

Corrective Action Completed Date/Time 02-MAR-2022 14:30	25	
Corrective Action Expected Completion Date/Time 15-MAR-2022 17:00	26	
<p>If corrective action is/will not be completed within 14 days of discovery, describe any remaining steps and the formal schedule necessary to complete:</p> <p>27</p>		
Date EPA Notified to Exceed 45 Days	28	
Date EPA Notified to Exceed 90 Days	29	
Baseline Date	30	
<p> Fields with a red triangle are required fields and must be filled out so the record can be created</p> <p>NA = Not applicable</p>		

MSGP Corrective Actions	EPC-CP-QP-2109	Page 35 of 39
	Revision: 0	Effective Date: 06/02/2022

Attachment 2: List of Limited Values in the CAR Database

Finding Type (Item 11 on Page 5 of Attachment 1 Screenshot)

Create/Edit Finding Detail

CA #

2076

Finding Type

Control measures inadequate to meet non-numeric effluent limitations

Unauthorized release or discharge
 Numeric effluent limitation exceedance
 Control measures inadequate to meet non-numeric effluent limitations
 Control measures not properly operated or maintained
 Change in facility operations necessitated change in control measures
 Average benchmark value exceedance
 Other (describe) :

MSGP Corrective Actions	EPC-CP-QP-2109	Page 36 of 39
	Revision: 0	Effective Date: 06/02/2022

Attachment 3: Example New Corrective Action Finding Notification

Page 1 of 2

From: owner-msgpcar_admin@maillist.lanl.gov on behalf of msgpcar_admin@lanl.gov
To: [Vandenbusch, Steve](#); [Martinez, Harold L](#); [Powell, Mark E](#); [Gorman, Bill](#); [Wilburn, Dianne Williams](#); [Caldwell, Jack Andrew](#); [Archuleta, Bernardo](#); [Vargas, Andrew J](#); [Baldonado, Richard](#); [Herrera, Gabriel Clarence](#); [Parrett, Dana](#); [Ulibarri, Phillip Edward](#); [Knight, Jacob Lamar](#); [Diaz, Vanessa Blanca](#); [Bruaw, Lacey Jo](#); [McMillan, Gary Edward](#)
Cc: msgpcar_admin@lanl.gov
Subject: New Corrective Action finding relative to the NPDES MSGP Program
Date: Friday, February 25, 2022 1:00:01 AM

This email is generated automatically by the National Pollutant Discharge Elimination System (NPDES) Multi-Sector General Permit (MSGP) Corrective Action Report (CAR) database to provide notification of discovery of a new condition requiring corrective action. As the recipient of this notification, you are responsible for immediately taking all reasonable steps necessary to minimize or prevent the discharge of pollutants until a permanent solution is installed and made operational.

"Immediately" requires initial action on the same day a condition is found. However, if a problem is identified at a time in the work day when it is too late to initiate corrective action (after 3 P.M.), the initiation must begin no later than the following work day morning.

At TA-60-2 Warehouse on 24-FEB-22, a condition requiring a corrective action was observed and a corrective action report was generated per the 2021 Multi-Sector General Permit requirements for stormwater controls at industrial sites. The condition(s) requiring a corrective action(s) is/are listed below.

CA #: 2076 located at TA-60-2 Warehouse

Person Identifying Condition: KNIGHT JACOB L

Description of finding: Control measures inadequate to meet non-numeric effluent limitations

Condition requiring corrective action: Metal recycle bins were uncovered. Recent wind damaged the bin covers beyond repair. New ones have been shipped to the facility for delivery soon. Bins will be hauled off for recycle.

Description of the corrective action taken or to be taken to eliminate the condition or further investigation: Replace bin covers as soon as practicable. Bins are scheduled to be hauled off to recycle in the next day or two.

Status: The Corrective Action was initiated on 24-FEB-22 and is expected to be completed by 10-MAR-22

Click [Here](#) to access the list of MSGP corrective action(s) not yet completed for IF
Click [Here](#) to access the list of MSGP corrective action(s) not yet completed.

The Deployed Environmental Professional (DEP) assigned to your organization/area is KNIGHT JACOB L

The color legend on the linked reports corresponds to the following schedule for corrective action completion as required by the 2021 MSGP:

MSGP Corrective Actions	EPC-CP-QP-2109	Page 37 of 39
	Revision: 0	Effective Date: 06/02/2022

Attachment 3: Example New Corrective Action Finding Notification

Page 2 of 2

You must complete the corrective action within 14 calendar days of discovery.

If completion of final corrective action within 14 days is not feasible, the reason(s) must be documented and a description of steps required, along with a formal schedule for completion (as soon as practicable). This documentation must be entered into the CAR database.

If the completion of corrective action will exceed the 45-day timeframe, you must take the minimum additional time necessary, provided that you notify Region 6 of the Environmental Protection Agency (EPA):

- of your intent to exceed 45 days
- your rationale for an extension
- and a completion date.

To assist the preparation of this notification, as a responsible individual, you must contact the EPC-CP Project Lead at 667-1312 for any corrective action that remains open 35 days or more, and provide a formal status of the progress for each corrective action. By day 40, the DEP must provide the EPC-CP Project Lead the rationale for potentially exceeding the required 45-day timeframe and a proposed completion date for each associated corrective action. The DEP must also amend the rationale and completion date in the CAR database.

An extension request must be submitted to Region 6 of the EPA by EPC-CP personnel prior to day 45 for final corrective actions not completed or estimated to be completed within 45 days of discovery.

The responsible individual must ensure compliance with the proposed completion schedule.

These intervals are not considered grace periods, but are defined schedules to ensure the conditions requiring corrective action do not persist indefinitely.

Where corrective actions result in changes to controls or any procedures documented in the facility's Storm Water Pollution Prevention Plan (SWPPP), the DEP must modify the SWPPP accordingly within 14 calendar days of completing corrective action work.

MSGP Corrective Actions	EPC-CP-QP-2109	Page 38 of 39
	Revision: 0	Effective Date: 06/02/2022

Attachment 4: Example Weekly Notification of Outstanding Corrective Action Findings

Page 1 of 1

From: owner-msgpcar_admin@mailist.lanl.gov on behalf of msgpcar_admin@lanl.gov
To: [Sandoval, Leonard Frank](#); [Wilburn, Dianne Williams](#); [Ulibarri, Phillip Edward](#); [Chavez, Lawrence Valenzuela](#); [McMillan, Gary Edward](#)
Cc: msgpcar_admin@lanl.gov
Subject: Weekly Notification of Outstanding NPDES MSGP Corrective Action finding(s)
Date: Sunday, March 6, 2022 5:00:01 PM

This email is generated automatically by the National Pollutant Discharge Elimination System (NPDES) Multi-Sector General Permit (MSGP) Corrective Action Report (CAR) database to provide notification of outstanding corrective action finding(s).

At TA-60 Asphalt Batch Plant , 1 total MSGP stormwater corrective action(s) has (have) not been completed

Click [Here](#) to access the list of MSGP corrective action(s) not yet completed for UI

Click [Here](#) to access the list of MSGP corrective action(s) not yet completed.

The Deployed Environmental Professional (DEP) assigned to your organization/area is SANDOVAL LEONARD F

The color legend on the linked reports corresponds to the following schedule for corrective action completion as required by the 2021 MSGP:

Finding Type	AIM Level	Days to Complete upon Discovery	Document Steps and Formal Schedule not to Exceed Max Days	Extension Beyond Max Days
Unauthorized release or discharge	NA	14	45	Notify EPA
Control measures inadequate to meet applicable water quality standards	NA	14	45	Notify EPA
Control measures inadequate to meet non-numeric effluent limitations	NA	14	45	Notify EPA
Control measures not properly operated or maintained	NA	14	45	Notify EPA
Change in facility operations necessitated change in control measures	NA	14	45	Notify EPA
Other (describe) :	NA	14	45	Notify EPA
Numeric effluent limitation exceedance	NA	14	45	Notify EPA
Average benchmark value exceedance	1	14	45	Not permitted
Average benchmark value exceedance	2	14	45	EPA Approval Required
Average benchmark value exceedance	3	14	45	EPA Approval Required

The responsible individual must ensure compliance with the proposed completion schedule.

These intervals are not considered grace periods, but are defined schedules to ensure the conditions requiring corrective action do not persist indefinitely.

Where corrective actions result in changes to controls or any procedures documented in the facility's Storm Water Pollution Prevention Plan (SWPPP), the DEP must modify the SWPPP accordingly within 14 calendar days of completing corrective action work.

MSGP Corrective Actions





EPC-CP-QP-2109

Page 39 of 39

Revision: 0

Effective Date: 06/02/2022

Attachment 5: Example Outstanding Corrective Action Report

				Page 1 of 1				   118432			
Home				Enter or Edit CAR Data				Reports			
Administration											

Outstanding Corrective Action Report

As Of: 03/17/2022 04:22PM

Q	Go	Rows 50	Actions	PDF
---	----	---------	---------	-----

FOD	RAD	MSGP Facility Desc	CA #	AIM Level	Person Identifying Condition	Date Problem Identified	Corrective Action Initiate Date	Days To Take Action	Projected Completion Date	Days Open	EPA Notified of Intent to Exceed 45 Days	EPA Notified of Intent to Exceed 90 Days	Problem Description
UI	SIMPKINS BRET E	TA-60 Roads and Grounds	2079	NA	SANDOVAL LEONARD F	16-MAR-2022 08:17	16-MAR-2022 08:17	0	29-MAR-2022 17:00	1	-	-	Wood pallet with bags of ice melt next to transportainer 60-0287 and several bags of ice melt on the ground next to the transportainer that need to be picked up and covered.

1 - 1

AIM Level = NA, 1, or 2

Action Must Be Taken

!

Indicates Immediate Action was not taken (i.e., <= 2 days of discovery)

3

Within 14 days of discovery



Between 35 and 45 days of discovery



Between 15 and 34 days of discovery



46 days of discovery or greater



AIM Level 3

Action Must Be Taken

!

Indicates Immediate Action was not taken (i.e., <= 2 days of discovery)

3

Within 60 days of discovery



Between 61 and 90 days of discovery



91 days of discovery or greater



https://enc.lanl.gov/anex/?n=796:1:15881598531426:...

ATTACHMENT 18: EPC-CP-QP-2105, MSGP STORMWATER VISUAL ASSESSMENTS

EPC-CP-QP-2105

Revision: 1



Effective Date: 09/08/2021

Next Review Date: 09/08/2024

Environment, Safety, Health, Quality, Safeguards, and Security Directorate
Environmental Protection and Compliance – Compliance Programs Group
Quality Procedure

MSGP Stormwater Visual Assessments

Hazard Grading: ☒ Low ☐ Moderate ☐ High/Complex

Usage Level: ☒ Reference ☐ UET ☐ Mixed: UET Sections: _____

Status: ☐ New ☒ Major Revision ☒ Minor Revision

☐ Review w/No Changes ☐ Other: _____

Safety Basis: ☒ N/A ☐ USQ ☐ USI Number: _____

Document Author/Subject Matter Expert:

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Derivative Classifier: ☒ Unclassified or ☐ _____

Name:	Organization:	Signature:	Date:
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MSGP Stormwater Visual Assessments	No: EPC-CP-QP-2105	Page 2 of 19
	Revision: 1	Effective Date: 09/08/2021

REVISION HISTORY

Document Number and Revision	Effective Date	Effective Date
ENV-RCRA-QP-064, R0	7/09	New document <i>MSGP Storm Water Visual Inspections</i> .
ENV-RCRA -QP-064, R1	3/10	Clarifications and added attachments.
ENV-RCRA -QP-064, R2	2/12	Biennial review/revision
EPC-CP-QP-064, R0	10/04/2017	This document replaces ENV-RCRA-QP-064 R2. Converted into new format, and new organization name, clarified steps, updated attachments.
EPC-CP-QP-064, R1	10/09/2018	Removed requirement to conduct visual assessment on filtered samples. Updated form to match text.
EPC-CP-QP-2105, R0	05/12/20	Supersedes EPC-CP-QP-064, R1. Reformat to new EPC-CP template. Re-number procedure and forms to new EPC-CP procedure numbering system.
EPC-CP-QP-2105, R1	09/08/2021	This document supersedes EPC-CP-QP-2105, R0. Updated LANL logo, changed "memorandum" to "cover sheet," changed "modified sampling quarters" to "MSGP monitoring quarters," "best management practice" to "stormwater control measure," and updated facility types and permit section reference to match new permit.

MSGP Stormwater Visual Assessments	No: EPC-CP-QP-2105	Page 3 of 19
	Revision: 1	Effective Date: 09/08/2021

Table of Contents

Revision History	2
1.0 Introduction	4
1.1 Purpose	4
1.2 Scope	4
1.3 Applicability	4
2.0 Precautions and Limitations	5
2.1 Precautions.....	5
2.2 Limitations.....	5
3.0 Prerequisite Actions.....	5
3.1 Planning and Coordination.....	5
3.2 Special Tools, Equipment, Parts, and Supplies.....	6
4.0 Visually Assessing Stormwater	7
4.1 Documenting Sample Information	7
4.2 Assessing Parameters	8
4.3 Completing the Visual Assessment Form.....	10
4.4 Completing the Certification Statement	11
5.0 Training	11
6.0 Records	12
7.0 Definitions and Acronyms.....	12
7.1 Definitions	12
7.2 Acronyms.....	13
8.0 References	13
9.0 Attachments	13
Attachment 1: Screenshot Examples of EPC-CP-QP-2105 R1 Form 1.....	14
Attachment 2: EPC-CP-QP-2105 R1 Form 1, MSGP Visual Assessment Hard Copy Example	18

MSGP Stormwater Visual Assessments	No: EPC-CP-QP-2105	Page 4 of 19
	Revision: 1	Effective Date: 09/08/2021

1.0 INTRODUCTION

Los Alamos National Laboratory (LANL) through Environmental Protection and Compliance – Compliance Programs (EPC-CP) conducts stormwater monitoring activities required pursuant to the National Pollutant Discharge Elimination System (NPDES), Multi-Sector General Permit (MSGP). The MSGP requires LANL to monitor stormwater runoff from industrial sites relative to potential pollutants.

1.1 Purpose

This procedure describes the process for conducting visual assessments of stormwater from permitted outfall locations where LANL conducts stormwater monitoring activities for compliance under the MSGP.

1.2 Scope

Requirements set forth in this document apply to active LANL industrial facilities covered by the MSGP. These facilities include, a warehouse, several metal fabrication areas/shops, a heavy equipment yard, an asphalt batch plant, roads and grounds, and a material recycling facility. Inspection waivers may be granted by EPC-CP for adverse weather conditions and unstaffed or inactive sites.

At least once each MSGP monitoring quarter, an unfiltered stormwater sample is collected from each discharge point covered by the MSGP and identified in the site-specific Stormwater Pollution Prevention Plan (SWPPP). The sample must be visually inspected for water quality characteristics. Stormwater samples are collected with an automated sampler, single-stage sampler, or by taking a grab sample. Visual assessments are **not** performed on filtered stormwater.

Visual assessments conducted under this procedure are documented using the Maintenance Connection Express™ (MC Express) web application on a tablet or notebook style computer. In the event of electronic hardware or web application failure, personnel may use a printed hard copy to document the work.

1.3 Applicability

This procedure applies to the EPC-CP technical staff and subcontractor personnel (as applicable) who conduct stormwater visual assessments during or after measurable storm events at MSGP outfalls.

A measurable storm event is identified in Part 4.1.3 of the MSGP as one that results in an actual discharge from the site that follows the preceding measurable storm event by at least 72 hours (three days).

MSGP Stormwater Visual Assessments	No: EPC-CP-QP-2105	Page 5 of 19
	Revision: 1	Effective Date: 09/08/2021

2.0 PRECAUTIONS AND LIMITATIONS

2.1 Precautions

The hazard level for the activities described in this procedure is **LOW**, therefore an Integrated Work Document (IWD) Part I is not required. If required by a Facility Operations Division (FOD), an IWD Part II (2101 Form) will address any site-specific requirements and training for the FOD.

Personnel will wear appropriate clothing (e.g., boots, long pants, etc.,) to perform work in the field.

Work may be discontinued during periods or conditions that make sites dangerous for worker safety or prevent personnel from safely accessing sites (e.g., weather-related events such as flash floods, flooding, lightning, wildfires, hail, icy roads, deep snow, or LANL operations such as firing shots or open burns).

If conditions prevent fieldwork, document these conditions on the work order. Multiple attempts can be documented on the original form. If the target date cannot be met, field personnel will contact the Program Lead no less than 24 hours before the target date for guidance.

2.2 Limitations

In MC Express, document responses to each question on a work order by clicking the expand arrow located on the right side of the task line and changing the “Complete” or “Failed” line to “Yes.” When using a hard copy form, mark the appropriate check box.

Throughout this process, field personnel will document comments and notations in the “Reading” field of the associated task line. Additional comments not documented in a “Reading” field can be entered in the “Comments” field of the same task line. If field personnel need more space, additional comments can be entered in the “Labor Report Update” field (see Section 4.3) when the work order is updated to “Complete” status. When using a hard copy form, document comments on the corresponding task line. If additional space is needed, comments can be entered in the “Labor Report” section at the bottom of the form.

Some terminology varies between the MC Express software and the Maintenance Connection (MC) desktop software.

- The “Reading” field in MC Express is the same field as “Reading Final” in MC desktop and “Meas.” on a hard copy (printed) work order.
- The “Complete” option in MC Express is the same as a “Yes” answer. The “Failed” option in MC Express is the same as a “No” answer. MC desktop and hard copy (printed) work orders use “Yes” and “No” terminology.

3.0 PREREQUISITE ACTIONS

3.1 Planning and Coordination

1. Schedule work to be completed by the target date appearing on the work order(s) or as requested by the MSGP Program Lead if a work order is not issued.

MSGP Stormwater Visual Assessments	No: EPC-CP-QP-2105	Page 6 of 19
	Revision: 1	Effective Date: 09/08/2021

2. As specified in the IWD Part II (if applicable), inform (e.g., by e-mail) facility contacts and/or the Deployed Environmental Professional (DEP) of the schedule for work and locations up to a week (preferred) before but no later than the day before (for minor changes) so work is added to the appropriate plan of the day.
3. Gather the required equipment (see Section 3.2) for the work to be done.
4. Using the Safari or Chrome web browser on a tablet or notebook style computer, log into the MC Express application (<http://express.maintenanceconnection.com>) and confirm that the work order list displayed matches your sites. If the work order lists do not match, contact EPC-CP Data Management personnel for clarification.
5. In MC Express, click on the appropriate work order number to open the work order. The work order will open in the display to the Work Order Summary page.
6. Click on the “Tasks” bar to navigate to the work order Tasks page. See MC Express screen shot examples in Attachment 1.
7. Always log out of MC Express when you have finished work OR work is interrupted.

3.2 Special Tools, Equipment, Parts, and Supplies

Ensure the following equipment is available in the field vehicle:

- Safety glasses
- Nitrile gloves
- Sturdy hiking boots or steel toed shoes with soles that grip
- Other facility specific personal protective equipment as required by the FOD
- Cell phone (only government cell phones are allowed in secure areas) (See <https://int.lanl.gov/policy/documents/P217.pdf> for requirements for using portable electronic devices on Laboratory property.)
- Current copy of this procedure
- Current copy of the IWD(s) Part II (as needed)
- Site map(s) (as needed)
- Current electronic work order or paper inspection form
- EPC-CP MSGP Sampling and Analysis Plan (SAP) most recent revision for the current monitoring year OR program specific monitoring plan
- Government issued electronic tablet with Safari web browser and Blackberry UEM™ app. (See <https://int.lanl.gov/policy/documents/P217.pdf> for requirements for using portable electronic devices on Laboratory property.)
- Necessary access and station keys

MSGP Stormwater Visual Assessments	No: EPC-CP-QP-2105	Page 7 of 19
	Revision: 1	Effective Date: 09/08/2021

- Access to accurate time measurement
- Clean replacement sample bottles (clear glass or clear poly)
- Paper towels

4.0 VISUALLY ASSESSING STORMWATER

Stormwater visual assessments are determined at a sampling station based on the current year SAP. See Attachment 1 for screen shot examples of EPC-CP-QP-2105 R1 Form 1, *MSGP Visual Assessment*, in MC Express. See Attachment 2 for an example of the form in hard copy format.

NOTE: Each item number listed in **red** below corresponds to a **red numbered box** on both screenshots and hard copy format.

4.1 Documenting Sample Information

- [1] Take the sample bottle with water out of the automated sampler or single stage jar off the ground or fill a clear sample bottle with a grab sample and wipe off exterior.
 - [a] Grab samples are collected during daylight hours in a wide-mouth clear glass or plastic container within 30 minutes of discharge from a storm event.
- [2] **ITEM 1:** Document the monitoring period by entering Jan-Mar, Apr-Jun, Jul-Sep, or Oct-Dec.
 - [a] IF the stormwater discharge collected is from a rain event from the previous monitoring period and the visual assessment is made in the following monitoring period,
THEN document monitoring period on the inspection to correspond to the period in which the rain event took place.
- [3] **ITEM 2:** Check the date and time stormwater discharge began and document by entering the date in the following formats: MM/DD/YY or MM-DD-YY. Time must be entered in 24-hour format.
 - [a] IF the discharge date/time is not available (e.g., precipitation report) when the visual is performed in the field,
THEN leave this Task Line incomplete and complete when the information is available.
- [4] **ITEM 3:** Check the date and time the sample was collected and document by entering the date in the following formats: MM/DD/YY or MM-DD-YY. Time must be entered in 24-hour format.
 - [a] IF the collection date/time is not available (e.g., precipitation report) when the visual is performed in the field,
THEN leave this Task Line incomplete and complete when the information is available.

MSGP Stormwater Visual Assessments	No: EPC-CP-QP-2105	Page 8 of 19
	Revision: 1	Effective Date: 09/08/2021

- [5] **ITEM 4:** Check the date and time stormwater was visually assessed and document by entering the date in the following formats: MM/DD/YY or MM-DD-YY. Time must be entered in 24-hour format.
- [6] **ITEM 5:** Describe the nature of the discharge (e.g., rain, snowmelt, hail) and the TOTAL amount of precipitation in inches from the event.
 - [a] IF the total amount of precipitation is not available (e.g., precipitation report) when the visual is performed in the field,
THEN leave this Task Line incomplete and complete when the information is available.
- [7] **ITEM 6:** Check that the sample was collected in the first 30 minutes of discharge and document.
 - [a] IF it is not possible to collect the sample within the first 30 minutes of discharge,
THEN the sample must be collected as soon as practicable after the first 30 minutes.
 - [b] The field inspector will document the reason a sample could not be collected within the first 30 minutes (e.g., lightning hazard, flooding).

4.2 Assessing Parameters

While conducting the visual assessment, personnel will attempt to relate any evidence of stormwater pollution that is observed in the sample to a pollutant source on the site. A cleanup of the site can be conducted if the pollutant source is known and well defined. Refer to EPC-CP-QP-2109, *MSGP Corrective Actions*, for specific steps to document, track, and report conditions of potential stormwater pollution.

- [1] **ITEM 7:** Observe the color of the discharge in the sample container. Document by describing the color.
- [2] **ITEM 8:** Observe any odors detected from the sample. Document by describing the odor (e.g., musty, sewage, sulfur, sour, solvents, petroleum/gas).
- [3] **ITEM 9:** Observe the clarity of the discharge. Document by describing the clarity (e.g., slightly cloudy, cloudy, opaque).

NOTE 1: Clarity is described as the depth in which you can look into or through water. For example, an individual can see through a clear glass of clean water in daylight. Generally, the clarity of the water is a good visual indicator of the purity of water. If the water is poor in clarity there is most likely suspended solids throughout the water.
- [4] **ITEM 10:** Observe any floating solids in the discharge. Document by describing the floating solids.

MSGP Stormwater Visual Assessments	No: EPC-CP-QP-2105	Page 9 of 19
	Revision: 1	Effective Date: 09/08/2021

NOTE 2: Careful examination will determine whether the solids are raw materials (e.g., product used to fabricate something, or ingredients used in a formulation) or waste materials (e.g., shavings, woodchips and sawdust, trash).

- [5] **ITEM 11:** Observe any settled solids in the sample. Document by describing the settled solids (e.g., sediment, vegetation, fine, course).

NOTE 3: Settled solids may be an indicator of unstable ground cover combined with a high-intensity stormwater runoff event.

- [6] **ITEM 12:** Observe any suspended solids in the sample. Document by describing the suspended solids (e.g., vegetation, ash, sediment, fine, course).

NOTE 4: Most often suspended solids include fine sediment. This may be an indication of an unstable channel with eroding banks. Some water may appear to be colored because of relatively fine particulate material in suspension such as sediment.

- [7] **ITEM 13:** Check to see whether the sample is free of foam. Gently shake the sample container. Document by describing any bubbles in or on the surface of the water and the color of the foam.

[a] IF it is determined that foam is caused by a pollutant,
THEN complete the visual assessment and contact the EPC-CP MSGP Program Lead **immediately following completion of the visual assessment.**

[b] Follow-up action is required within 24 hours (see EPC-CP-QP-2109).

- [8] **ITEM 14:** Check to see whether the sample is devoid of any oil sheen. Document by describing the thickness and consistency (e.g., flecks, globs).

[a] IF an oil sheen is present,
THEN contact the EPC-CP MSGP Program Lead **immediately following completion of the visual assessment.**

[b] Document in the Labor Report (**ITEM 17**) the source of the oil sheen, if existing stormwater control measures (SCMs) are effective in mitigation of potential pollutants, and if a new SCM needs to be installed.

[c] Follow-up action is required within 24 hours (see EPC-CP-QP-2109).

- [9] **ITEM 15:** Check to see whether the discharge is free of any other indicators of stormwater pollution not described in any other task line above.

- [10] IF there are any potential sources of pollutants observed on site,
THEN document the following and contact the EPC-CP MSGP Program Lead within 24 hours of identification:

- Potential sources;

MSGP Stormwater Visual Assessments	No: EPC-CP-QP-2105	Page 10 of 19
	Revision: 1	Effective Date: 09/08/2021



- Indicate if there are SCMs on site;
- Evaluate whether the SCMs are working correctly or need maintenance;
- Evaluate whether implementation of additional SCMs are needed to address the observed contaminant.

[11] Contact the FOD, DEP, and EPC-CP MSGP representative to inform them of the situation.

NOTE 5: Refer to EPC-CP-QP-2109, *MSGP Corrective Actions*, for specific steps to document, track, and report conditions of potential stormwater pollution.

[12] After all task lines have been completed, make sure you have clicked the “Save” bar at the bottom of the page.

4.3 Completing the Visual Assessment Form

- [1] Ensure the inspection form has been filled out completely including information not available during the field inspection (e.g., date/time of discharge, date/time of sample collection, total precipitation amount).
- [2] Click the “Back” arrow button  in the upper left-hand corner to exit the work order Tasks page and return to the Work Order Summary page.
- [3] Click the checkered flag  in the upper right corner of the Work Order Summary page to open the Work Order Status Update page. MC Express auto-populates the date and time fields.

CAUTION

MC Express automatically changes the work order status to “Closed.”

[4] **ITEM 16:** Click on the expand arrow located on the right side of the “New Status” field and select “Completed” from the available dropdown menu.

- [a] Ensure the auto-populated date and time is the date and time that the **work was completed** and **not the date/time the form was filled out**.
- [b] IF work is performed over multiple days,
THEN note the date and time the work began in the Labor Report field.
- [c] To update the date or time, click the “Date” field and make necessary adjustments using the available timestamp application. Click “Set” to apply changes.
- [d] IF using a hard copy form,
THEN write the date and time the work was completed.

MSGP Stormwater Visual Assessments	No: EPC-CP-QP-2105	Page 11 of 19
	Revision: 1	Effective Date: 09/08/2021

- [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.

MSGP Stormwater Visual Assessments	No: EPC-CP-QP-2105	Page 12 of 19
	Revision: 1	Effective Date: 09/08/2021

6.0 RECORDS

MSGP Visual Assessment forms are signed and certified by individual LANL facilities. These completed forms are maintained in the facility's SWPPP and managed by the facility's document management system. The MSGP team may retain a copy for reference purposes.

Below are records generated as a result of implementing this procedure that are identified by title and type.

Record Title	QA Record	Non-QA Record
EPC-CP-QP-2105 R1 Form-1, <i>MSGP Visual Assessment</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

7.0 DEFINITIONS AND ACRONYMS

7.1 Definitions

See LANL [Definition of Terms](#).

Adverse weather conditions – Weather that prohibits collection of samples such as local flooding, high winds, hurricanes, tornadoes, electrical storms, etc. Could also include drought, extended frozen conditions, etc.

Clarity – Clearness or cleanness of appearance. This includes the visual observation of suspended sediment.

Color – Unpolluted water will be clear and colorless. Color must not be confused with clarity.

Control Measure – Refers to any stormwater control or other method (including narrative effluent limitations) used to prevent or reduce the discharge of pollutants to waters of the United States.

Floating solids – Particulate material floating on the surface of the water. Examples include raw or waste materials and common trash.

Foam – An accumulation of fine frothy bubbles formed in or on the surface of water. A mass of bubbles of air in a matrix of liquid film.

Measurable storm event – Precipitation that results in an actual discharge from the site that follows the preceding measurable storm event by at least 72 hours (3 days).

Odor – The property or quality of waters that affects or stimulates the sense of smell. Examples of odors that may be present are burnt oil, petroleum hydrocarbon, sewage, diesel, sulfuric, or detergent odors.

Oil sheen – The presence of rainbow-like colors glistening on the surface of a liquid. The color of oil sheen will vary dependent on thickness and consistency.

Settled solids – Settled particulate material i.e., heavier than water. Examples include sand, gravel, metal turnings, and glass.

MSGP Stormwater Visual Assessments	No: EPC-CP-QP-2105	Page 13 of 19
	Revision: 1	Effective Date: 09/08/2021

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

MSGP Stormwater Visual Assessments	No: EPC-CP-QP-2105	Page 14 of 19
	Revision: 1	Effective Date: 09/08/2021

**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)

MC Express

WORK ORDER: MSGP-4344
Summary

[MSGP00901] MSGP00901
TA-3-22 Power & Steam Plant
Requested

EXAMPLE MSGP Visual Assessment

	Tasks	15
	Assignments	1
	Labor	0
	Parts	0
	Other Costs	0
	Attachments	2
	Asset History	121
More Work Order Detail...		

Refresh **List**

MSGP Stormwater Visual Assessments	No: EPC-CP-QP-2105	Page 15 of 19
	Revision: 1	Effective Date: 09/08/2021

Attachment 1: Screenshot Examples of EPC-CP-QP-2105 R1 Form 1 MSGP Visual Assessment in MC Express (cont.)

(Page 2 of 4)

Work Order Tasks Page – Documenting Sample Information (Section 4.1, Steps 2-7)

MC Express

WORK ORDER: MSGP-4344

Tasks

The result of this VA applies to associated SIOs as defined in the SWPPP, where applicable.

Sample information

- 1** 30 Document the monitoring period.
- 2** 40 Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format).
- 3** 50 Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format).
- 4** 60 Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format).
- 5** 70 Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line.
- 6** 80 Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason.

Refresh List

MC Express

WORK ORDER: MSGP-4344

Edit Task

30 Document the monitoring period.

Reading

July-Sept

Initials

Failed?

No

Not Applicable?

No

Complete?

Yes

Comments

Cancel Save Save/Next

MSGP Stormwater Visual Assessments	No: EPC-CP-QP-2105	Page 16 of 19
	Revision: 1	Effective Date: 09/08/2021

**Attachment 1: Screenshot Examples of EPC-CP-QP-2105 R1 Form 1
MSGP Visual Assessment in MC Express (cont.)**

(Page 3 of 4)

Work Order Tasks Page – Assessing Parameters (Section 4.2, Steps 1-9)

MC Express

WORK ORDER: MSGP-4344
Tasks

Parameters

110 7	Is sample colorless? If "Failed", describe.	↓
120 8	Is sample odorless? If "Failed", provide description (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas)	↓
130 9	Is sample clear? If "Failed", provide description (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 of this line.	↓
150 11	Is sample free of settled solids? If "Failed", provide description (e.g., fine, coarse).	↓
160 12	Is sample free of suspended solids? If "Failed", provide description (e.g., fine, coarse).	↓
170 13	Is sample foamless after gently shaking? If "Failed" describe foam color and location (e.g., 'on the surface' or 'in the sample').	↓
180 14	Is sample devoid of an oil sheen? If "Failed", describe color and thickness (e.g. flecks, globs).	↓
190 15	Is sample free of other obvious indicators of pollution? If "Failed", describe.	↓

Refresh **List**

MSGP Stormwater Visual Assessments	No: EPC-CP-QP-2105	Page 17 of 19
	Revision: 1	Effective Date: 09/08/2021

**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)

The screenshot shows the 'MC Express' mobile application interface for updating a work order status. At the top, it says 'WORK ORDER: MSGP-4344' and 'Status Update'. Below this, there's a section 'Issued / Completed' with a clipboard icon. The 'New Status' field is highlighted with a red box labeled '16' and shows 'Completed' selected from a dropdown menu. Below that is the 'Date' field, which shows '6/19/2018 10:48 AM'. The 'Percent Complete' is set to 100% with a progress bar. The 'Labor Report Update' section is highlighted with a red box labeled '17' and shows 'Select Comments to Add....' with a dropdown menu. Below this is a text field containing 'Jane Admin'. At the bottom, there are 'Cancel' and 'Save' buttons.

Work Order Status Update Page (Section 4.3, Step 7)

The screenshot shows the 'MC Express' mobile application interface for updating a work order status. At the top, it says 'WORK ORDER: MSGP-4344' and 'Status Update'. Below this, there's a section 'Signature' highlighted with a red box labeled '18'. Below the signature field, there's a '(Remove)' link. The signature field contains a handwritten signature 'Jane Admin'. At the bottom, there are 'Cancel' and 'Save' buttons.

MSGP Stormwater Visual Assessments	No: EPC-CP-QP-2105	Page 18 of 19
	Revision: 1	Effective Date: 09/08/2021

Attachment 2: EPC-CP-QP-2105 R1 Form 1, MSGP Visual Assessment Hard Copy Example
(Page 1 of 2)

Los Alamos National Laboratory

Work Order MSGP-4344

MSGP Monitoring Stations
Printed 6/19/2018 - 10:55 AM (Duplicate Copy)

Maintenance Details	
Requested By: Admin, Jane on 6/7/2018 10:51:00 AM	Target: 12/31/2018
Procedure: MSGP Quarterly Visual Assessment (EPC-CP-QP-2105 R1 Form 1)	Priority/Type: / Inspection
Last PM: 5/5/2010	Department: Utilities and Infrastructure
Reason: EXAMPLE MSGP Visual Assessment	Contact: Admin, Jane
Special Instructions:	Phone: 123-4567

MSGP Program
 RG121.9
 TA-60-2 Warehouse
 Monitored Outfall (026)
 MSGP02601

Tasks		Meas.	No	N/A	Yes
The result of this VA applies to associated SIOs as defined in the SWPPP, where applicable.					
Sample information					
1	30 Document the monitoring Period		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	40 Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format).		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	50 Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format).		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	60 Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format).		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	70 Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6	80 Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Parameters					
7	110 Is sample colorless? If "Failed", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8	120 Is sample odorless? If "Failed", provide description (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9	130 Is sample clear? If "Failed", provide description (e.g., slightly cloudy, cloudy, opaque).		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10	140 Is sample free of floating solids? If "Failed", describe if raw or waste material(s) in the comments of this line.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11	150 Is sample free of settled solids? If "Failed", provide description (e.g., fine, coarse).		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12	160 Is sample free of suspended solids? If "Failed", provide description (e.g., fine, coarse).		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13	170 Is sample foamless after gently shaking? If "Failed" describe foam color and location (e.g., 'on the surface' or 'in the sample').		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14	180 Is sample devoid of an oil sheen? If "Failed", describe color and thickness (e.g. flecks, globs).		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15	190 Is sample free of other obvious indicators of pollution? If "Failed", describe.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Labor Report	
16	Completed: 6/19/2018 10:48:00 AM
17	Report: Jane Admin
18	<div style="display: flex; justify-content: space-between;"> <div> Signature / Name </div> <div> 6/19/2018 Date </div> <div> Signature / Name </div> <div> Date </div> </div>
I confirm the information as recorded is true, accurate and complete.	

MSGP Stormwater Visual Assessments	No: EPC-CP-QP-2105	Page 19 of 19
	Revision: 1	Effective Date: 09/08/2021

Attachment 2: EPC-CP-QP-2105 R1 Form 1, MSGP Visual Assessment Hard Copy Example (cont.)

(Page 2 of 2)

CERTIFICATION STATEMENT

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations".


(Signatory must meet definition in Section B.11.A, eg. FOD, Ops Mgr, EPC Group or Team Leader)

19 Print name and title: _____

Signature: _____ Date: _____

EPC-CP-QP-2105 R1 Form 1

**ATTACHMENT 19: EPC-CP-TP-2103, INSPECTING ISCO STORMWATER RUNOFF SAMPLERS AND
RETRIEVING SAMPLES**

EPC-CP-TP-2103	Revision: 0	
Effective Date: 02/24/2020	Next Review Date: 02/24/2023	

Environment, Safety, Health, Quality, Safeguards, and Security Directorate

Environment Protection and Compliance – Compliance Programs Group

Technical Procedure

Inspecting ISCO Stormwater Runoff Samplers and Retrieving Samples

Hazard Grading:	<input type="checkbox"/> Low	<input checked="" type="checkbox"/> Moderate	<input type="checkbox"/> High/Complex
Usage Level:	<input checked="" type="checkbox"/> Reference	<input type="checkbox"/> UET	<input type="checkbox"/> Mixed: UET Sections: _____
Status:	<input type="checkbox"/> New	<input type="checkbox"/> Major Revision	<input type="checkbox"/> Minor Revision
	<input type="checkbox"/> Review w/No Changes	<input checked="" type="checkbox"/> Other: <u>New EPC-CP format and numbering system</u>	
Safety Basis:	<input checked="" type="checkbox"/> N/A	<input type="checkbox"/> USQ	<input type="checkbox"/> USI Number: _____

Document Author/Subject Matter Expert:

Name:	Organization:	Signature:	Date:
Holly L. Wheeler	EPC-CP	Signature on File	02-20-2020

Derivative Classifier: ☒ **Unclassified** or ☐ _____

Name:	Organization:	Signature:	Date:
Steven E. Wolfel	EPC-CP	Signature on File	02-19-2020

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EPC-CP RLM:	Organization:	Signature:	Date:
Taunia Van Valkenburg	EPC-CP	Signature on File	02-24-2020

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To document a required read, Login to [UTrain](#), and go to the Advanced Search.

Inspecting ISCO Stormwater Runoff Samplers & Retrieving Samples	No: EPC-CP-TP-2103	Page 2 of 27
	Revision: 0	Effective Date: 02/24/2020

REVISION HISTORY

Document Number and Revision <i>[Include revision number, beginning with Revision 0]</i>	Effective Date <i>[Document Control Coordinator inserts effective date]</i>	Description of Changes <i>[List specific changes made since the previous revision]</i>
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.

Inspecting ISCO Stormwater Runoff Samplers & Retrieving Samples	No: EPC-CP-TP-2103	Page 3 of 27
	Revision: 0	Effective Date: 02/24/2020

Table of Contents

Revision History	2
1.0 Introduction	4
1.1 Purpose	4
1.2 Scope	4
1.3 Applicability	4
2.0 Precautions and Limitations	5
2.1 Precautions.....	5
2.2 Limitations.....	5
3.0 Prerequisite Actions.....	6
3.1 Planning and Coordination.....	6
3.2 Performance Documents	6
3.3 Special Tools, Equipment, Parts, and Supplies.....	7
4.0 Inspecting the Sampler and Sample Retrieval.....	8
4.1 Inspecting the Sampler.....	8
4.1.1 On Arrival	8
4.1.2 Water Collection Information	9
4.1.3 Water Retrieval Information.....	10
4.1.4 On Departure	10
4.1.5 Equipment Specific Tasks.....	11
4.1.6 Maintenance Information.....	12
4.1.7 Bottle Information	12
4.2 Retrieving Samples	13
4.3 Removing Stormwater Samples from the field.....	15
4.4 Completing the Inspection Form.....	15
5.0 Training	16
6.0 Records	16
7.0 Definitions and Acronyms.....	17
7.1 Definitions	17
7.2 Acronyms.....	17
8.0 References	17
9.0 Attachments	18
Attachment 1: Screenshot Examples of EPC-CP-TP-2103 R0 Form 1, ISCO Sampler Inspection and Sample Retrieval in MC Express.....	19
Attachment 2: EPC-CP-TP-2103 R0 Form 1, <i>ISCO Sampler Inspection and Sample Retrieval</i> Hard Copy Example	25
Attachment 3: Sample Retrieval Flow Diagram.....	27

Inspecting ISCO Stormwater Runoff Samplers & Retrieving Samples	No: EPC-CP-TP-2103	Page 4 of 27
	Revision: 0	Effective Date: 02/24/2020

1.0 INTRODUCTION

Los Alamos National Laboratory (LANL) through Environmental Protection and Compliance-Compliance Programs (EPC-CP) conducts stormwater monitoring activities required pursuant to the National Pollutant Discharge Elimination System (NPDES), Multi-Sector General Permit (MSGP) at LANL. The MSGP requires LANL to monitor stormwater runoff from industrial sites relative to potential pollutants.

1.1 Purpose

This procedure describes the process for inspecting ISCO automated samplers and retrieving stormwater runoff samples from outfall locations where LANL conducts stormwater monitoring pursuant to NPDES MSGP requirements. This procedure may also be used for other Associate Laboratory Directorate of Environment, Safety, Health, Quality, Safeguards, and Security (ESHQSS) stormwater monitoring activities as needed.

1.2 Scope

The discharge of stormwater from specified industrial sites at LANL is regulated under the NPDES MSGP. The Laboratory's MSGP requires qualitative and quantitative stormwater monitoring (e.g., sample collection) to evaluate the effectiveness of control measures. Automated ISCO samplers coupled with liquid level actuators are used at MSGP monitoring stations and in support of other stormwater monitoring programs. Refrigerated (Avalanche®) and/or non-refrigerated (Model 3700) samplers are deployed and configured with multi-battery arrays, solar panels, and surge protectors.

Field personnel are required to inspect the sampling station while retrieving water samples during MSGP stormwater monitoring periods and at other intervals determined by the program or as directed by the MSGP Program Lead.

Inspections and sample retrieval conducted under this procedure should be documented using the Maintenance Connection Express™ (MC Express) web application on a tablet or notebook style computer. (In the event of electronic hardware or web application failure, personnel may use a printed hard copy to conduct inspection and sample retrieval.)

1.3 Applicability

This procedure applies to the EPC-CP technical staff and subcontractor personnel (as applicable) conducting activities at automated stormwater sampling stations used for monitoring industrial stormwater discharge under the MSGP or other stormwater monitoring programs.

The MSGP Program Lead is primarily responsible for this procedure. EPC-CP personnel are appointed responsibility for a subset of sampling stations. Other stormwater monitoring programs or projects utilizing this procedure will refer to program or project specific roles and responsibilities.

Inspecting ISCO Stormwater Runoff Samplers & Retrieving Samples	No: EPC-CP-TP-2103	Page 5 of 27
	Revision: 0	Effective Date: 02/24/2020

2.0 PRECAUTIONS AND LIMITATIONS

2.1 Precautions

The hazard level of the activities in this procedure is **MODERATE**. Hazards in the work described in this procedure are controlled thorough a site specific Integrated Work Document (IWD) Part I. The IWD Part II (Form 2101) addresses site specific requirements and training by the Facility Operations Division (FOD).

Personnel performing steps in this procedure that involve electrical equipment **MUST** be trained to LANL electrical safety standards as prescribed in the IWD before performing those steps.

Personnel must wear appropriate clothing (e.g., boots, long pants, etc.) to perform work in the field.

Work may be discontinued during periods or conditions that make sites dangerous for worker safety or prevent personnel from safely accessing sites (e.g., weather-related events such as flash floods, flooding, lightning, wildfires, hail, icy roads, deep snow, or LANL operations such as firing shots or burns).

In the event of pest infestation (e.g., wasp or rat nests), do not attempt to remove the pest yourself. Call LANL Pest Control to coordinate the removal of the pest(s).

If conditions prevent field work, document the conditions in the Labor Report Update field on the form and notify the Program Lead or designee within 24 hours. Multiple attempts can be documented on the original form. If the target date cannot be met, the field personnel must contact the Program Lead no less than 24 hours before the target date for guidance.

2.2 Limitations

In MC Express, document responses to each question on a work order by clicking the expand arrow located on the right side of the task line and changing the “Complete” or “Failed” or “N/A” line to “Yes”. When using a hard copy form, mark the appropriate check box.

Throughout this process, the field personnel will document comments and notations in the “Reading” field of the associated task line. Additional comments not documented in a “Reading” field can be entered in the “Comments” field of the same task line. If field personnel need more space, additional comments can be entered in the “Labor Report Update” field (see Section 4.10) when the work order is updated to “Complete” status. When using a hard copy form, document comments on the corresponding task line. If additional space is needed, comments can be entered in the “Labor Report” section at the bottom of the form.

Some terminology varies between the MC Express software and the Maintenance Connection desktop software.

- The “Reading” field in MC Express is the same field as “Reading Final” in Maintenance Connection desktop and “Meas.” on a hard copy (printed) work order.

Inspecting ISCO Stormwater Runoff Samplers & Retrieving Samples	No: EPC-CP-TP-2103	Page 6 of 27
	Revision: 0	Effective Date: 02/24/2020

- The “Complete” option in MC Express is the same as a “Yes” answer; the “Failed” option in MC Express is the same as a “No” answer. Maintenance Connection desktop and hard copy (printed) work orders use “Yes” and “No” terminology.

3.0 PREREQUISITE ACTIONS

3.1 Planning and Coordination

1. Ensure that field personnel have access to accurate time measurement at the Site. When at the site, the clock time on the ISCO sampler must be set to Mountain Standard Time (MST) at all times, with no daylight saving time adjustment.
2. Schedule work to be completed by the target date appearing on the work order(s) or as requested by the MSGP Program Lead if a form is not issued.
3. Obtain any necessary additional paperwork before conducting this work, including IWD’s, and excavation permits (as necessary).
4. As specified in the IWD, inform (e.g., by e-mail) facility contacts and/or Deployed Environmental Professional of the schedule for sampler work and locations up to a week before (preferred), but no later than the day before (for minor changes) so work may be added to the appropriate plan of the day.

NOTE: For some FODs like the Utilities and Institutional Facilities FOD, MSGP stormwater monitoring activities are on a standing plan of the day. However, this must be requested each year at the beginning of the monitoring season.

5. Gather the required equipment (see Section 3.3) for the work to be done.
6. Using the Safari or Chrome web browser on a tablet or notebook style computer, navigate to <http://express.maintenanceconnection.com> and select English from the available dropdown menu.
7. Log into the MC Express application (<http://express.maintenanceconnection.com>) and confirm that the work order list displayed matches your sites. If the work order lists do not match, contact EPC-CP Data Management personnel for clarification.
8. In MC Express, click on the appropriate work order number to open the work order. The work order will open in the display to the Work Order Summary page.
9. Click on the “Tasks” bar to navigate to the work order Tasks page. See MC Express screen shot examples in Attachment 1.
10. Always log out of MC Express when you have finished work OR if work is interrupted.

3.2 Performance Documents

Personnel performing this procedure will be familiar with the most current versions of the following plans and operation manuals if this equipment is utilized. Copies of the following are not required to be on the job site.

Inspecting ISCO Stormwater Runoff Samplers & Retrieving Samples	No: EPC-CP-TP-2103	Page 7 of 27
	Revision: 0	Effective Date: 02/24/2020

- EPC-CP MSGP Sampling and Analysis Plan (SAP) most recent revision for the current monitoring year OR project specific monitoring plan;
- ISCO 3700 Portable Samplers Installation and Operation Guide;
- ISCO Avalanche® Installation and Operation Guide; or
- ISCO 701 pH/Temperature Module Installation and Operation Guide (if equipped at a station).

3.3 Special Tools, Equipment, Parts, and Supplies

Ensure the following equipment is available.

- Safety glasses;
- Sturdy hiking boots or steel toed shoes (as needed) with soles that grip and other required facility specific Personal Protective Equipment;
- Nitrile gloves;
- Leather gloves;
- Cell phone (only government cell phones are allowed in secure areas). (See <https://int.lanl.gov/policy/documents/P217.pdf> for requirements for using portable electronic devices on Laboratory property);
- Copy of this procedure;
- Copy of the IWD;
- EPC-CP MSGP SAP most recent revision for the current monitoring year OR project specific monitoring plan;
- Site Map(s) (as needed);
- Current electronic or paper inspection form EPC-CP-TP-2103 Form 1, *MSGP ISCO Sampler Inspection and Sample Retrieval*;
- Government issued electronic tablet with Safari or Chrome web browser and Blackberry UEM™ app. (See <https://int.lanl.gov/policy/documents/P217.pdf> for requirements for using portable electronic devices on Laboratory property);
- Water Sample Collection and Processing Log/Field Chain of Custody (SCPL) (see EPC-CP-QP-2106);
- Access to accurate time measurement;
- Necessary access and station keys;
- Insulated hand tools;
- Charged spare battery(s);

Inspecting ISCO Stormwater Runoff Samplers & Retrieving Samples	No: EPC-CP-TP-2103	Page 8 of 27
	Revision: 0	Effective Date: 02/24/2020

- Battery voltage tester;
- Clean spare tubing (pump, suction, discharge types, sampler specific);
- Certified clean replacement sample bottles (glass and poly);
- Spare/replacement sampler parts (liquid level actuator, distributor arm);
- Shovel;
- Wooden stakes;
- Plastic wire “zip” ties;
- Coolers with ice or Blue Ice®;
- Paper Towels;
- Marker pen (permanent, waterproof);
- Ball point pen;
- Re-sealable zipper storage bags (e.g., Ziploc®);
- Custody seals; and
- 0.45 micron filter (where applicable).

4.0 INSPECTING THE SAMPLER AND SAMPLE RETRIEVAL

Inspection of ISCO samplers is performed weekly during the sampling season. Samples retrieved are determined at a sampling station based on the current year SAP. See Attachment 1 for screen shot examples of EPC-CP-TP-2103 R0 Form 1, *ISCO Sampler Inspection and Sample Retrieval* in MC Express. See Attachment 2 for an example of the form in hard copy format.

NOTE: Each ITEM number listed in **red font** below corresponds to a **red numbered box** on both screenshots (Attachment 1) and hard copy format (Attachment 2).

4.1 Inspecting the Sampler

4.1.1 On Arrival

- [1] Remove the top cover from the sampler.
- [2] **ITEM 1:** Check and document the sampler is ON and its condition upon arrival. Explain any non-functional status.
 - [a] IF a sampler has been inactivated (e.g., sample collection completed) prior to this inspection but continues to appear on the inspection form, THEN answer this task line question “N/A.”
 - [b] Subsequent questions regarding the inactive sampler may be left unanswered in this section.

Inspecting ISCO Stormwater Runoff Samplers & Retrieving Samples	No: EPC-CP-TP-2103	Page 9 of 27
	Revision: 0	Effective Date: 02/24/2020

- [3] **ITEM 2:** Check and document the ISCO programming displays the following.
 - [a] ISCO 3700 sampler display should indicate “Sampler Inhibited”
 - [b] Avalanche sampler display should indicate “Program Disabled”
 - [c] Document messages other than those in [a] and [b] (e.g., “Done X samples,” “sampler off,” etc.).
- [4] IF there is no indication of flow and the sampler triggered due to a non-flow event, THEN describe why the sampler triggered (e.g., animal, tumbleweed, etc.).
- [5] **ITEM 3:** Check and document the sampler is set to the correct MST +/- no more than 1 minute. Do **NOT** use Daylight Savings Time.
 - [a] IF the sampler is set incorrectly, THEN reprogram for the correct MST.
 - [b] Describe the work performed and correction applied (e.g., “ISCO clock was X minutes slow”).
- [6] If the location has more than one sampler, complete Steps 1 through 5 for each sampler.

4.1.2 Water Collection Information

- [1] Don nitrile gloves and safety glasses.
- [2] Remove the center section from the sampler.
- [3] **ITEM 4:** Document evidence of storm water flow at the sampling location by describing the evidence of flow (e.g., sediment or vegetation movement, erosion, standing water).
 - [a] IF the sampler did not trip but there is evidence of flow, THEN document the date and time storm water discharge began from the precipitation report.
 - [b] IF the sampler tripped or collected storm water, THEN document the date/time stamp from the sampler (or from the precipitation report if the sampler did not record a date/time stamp).
- [4] **ITEM 5:** Document that storm water is collected.
 - [a] Document if the water is taken by grab sample.
 - [b] Complete the Bottle Information (**ITEM 20**) in Section 4.1.7.
 - [c] Follow the steps in thru Section 4.2 Step 16 to retrieve samples.
- [5] **ITEM 6:** For Avalanche samplers only, record the current refrigerator temperature in degrees Celsius (°C) when water is collected.

Inspecting ISCO Stormwater Runoff Samplers & Retrieving Samples	No: EPC-CP-TP-2103	Page 10 of 27
	Revision: 0	Effective Date: 02/24/2020

- [a] IF unable to review the temperature,
THEN check “No” and describe the condition (e.g., dead battery, electrical short).
- [6] **ITEM 7:** For Avalanche samplers equipped with an ISCO pH and Temp Module, check and document a pH measurement was taken on the collected water.
 - [a] Record the pH measurement taken at the time Bottle 1 was filled as “Average:Minimum:Maximum.”
 - [b] IF unable to review the pH,
THEN check “No” and describe the condition (e.g., damaged meter).

4.1.3 Water Retrieval Information

- [1] **ITEM 8:** Check and document whether a sample volume was retrieved from the sampler and taken off site.
 - [a] Record the estimated total volume in liters (L) or milliliters (ml) **taken off site**.
- [2] **ITEM 9:** Check and document whether a visual assessment of the water was performed (refer to EPC-CP-QP-2105).
 - [a] Do **NOT** conduct a visual assessment on a filtered sample. Record “Filtered sample.”

4.1.4 On Departure

WARNING

You **MUST** be trained to LANL electrical safety standards as prescribed in the IWD before performing Steps 2 and 3.

- [1] Prepare yourself in accordance with the IWD for electrical work (e.g. wear safety glasses and leather gloves, use insulated tools, no jewelry or anything metal hanging from body, etc.,).
- [2] **ITEM 10:** Check that all cable and electrical connections are attached and firmly tightened (not loose) upon departure.

NOTE: Connections may work loose over time due to temperature changes and if there are dis-similar metals at the connection points. The loose connections can introduce voltage spikes, which inherently cause current spikes that may result in blown fuses.

 - [a] IF the cables require replacement, connections require tightening, or other maintenance performed,
THEN describe the work performed (e.g., “tightened connectors on battery).
 - [b] IF maintenance cannot be completed at the time of inspection,

Inspecting ISCO Stormwater Runoff Samplers & Retrieving Samples	No: EPC-CP-TP-2103	Page 11 of 27
	Revision: 0	Effective Date: 02/24/2020

THEN describe the condition (e.g. cables chewed through by animal) and follow-up work needed (e.g., replace cables).

- [3] **ITEM 11:** Use a voltage meter to check the power supply.
 - [a] Record the voltage of the battery(ies) in volts (V).
 - [b] Document if battery voltage is acceptable upon departure from the site (≥ 11.7 for non-floating charged batteries at ISCO 3700 samplers and ≥ 11.0 for floating-charged batteries at Avalanche samplers).
 - [c] Replace a battery with a charged battery when the voltage is not acceptable.
 - [d] Check the voltage of the solar panel if access can be gained to the weather protected terminal covers on the back of the panel.
- [4] Contact the program Electrical Safety Officer if any issues with wiring or batteries cannot be resolved on site.

4.1.5 Equipment Specific Tasks

- [1] **ITEM 12:** Check and document the sampler passes the diagnostic test. (Refer to EPC-CP-TP-2102 or sampler Operator's Guide for instructions on running a diagnostics test.)
 - [a] IF a sampler has been inactivated (e.g., sample collection completed) prior to this inspection but continues to appear on the inspection form, THEN answer this task line question as "N/A." Subsequent questions regarding this sampler may be left unanswered in this section.

CAUTION

Only reset the pump counts after replacing the internal pump tubing.

- [2] IF the internal pump tubing has reached or exceeded the preset pump counts (500,000 for ISCO 3700s, 1,000,000 for Avalanches), THEN replace the pump tubing and reset the pump counts.
- [3] **ITEM 13:** Check and document the sample tubing is free or clear of debris.
 - [a] Clear obstructions as needed and document maintenance performed.
- [4] Check the physical condition of sample tubing and vent tubing.
 - [a] Replace tubing as needed and document maintenance performed.
- [5] **ITEM 14:** Check and document the sample tubing has passed a suction test.
- [6] **ITEM 15:** Check and document the sampler is ON prior to departing the site.
- [7] **ITEM 16:** Check and document the liquid level actuator has been set to "Latch" prior to departing the site.

Inspecting ISCO Stormwater Runoff Samplers & Retrieving Samples	No: EPC-CP-TP-2103	Page 12 of 27
	Revision: 0	Effective Date: 02/24/2020

- [a] IF the sampler tripped and requires reset of the sampling program,
THEN reset the actuator by toggling the switch to “Reset” and back to “Latch.”
- [8] **ITEM 17:** Check and document the ISCO programming displays the following.
 - [a] ISCO 3700 sampler display should indicate “Sampler Inhibited.”
 - [b] Avalanche sampler display should indicate “Program Disabled.”
 - [c] Reprogram the sampler as needed and document maintenance performed.
- [9] Replace and secure the sampler top cover and secure the sampler shelter (if sampler is in a shelter).
- [10] If the location has more than one sampler, complete Steps 1 through 11 for each sampler.

4.1.6 Maintenance Information

- [1] **ITEM 18:** Document maintenance completed while on site that is not documented elsewhere on the work order by describing the work performed.

NOTE: Maintenance items may include (but are not limited to) site clearing, installing new or additional equipment, removing equipment, animal/pest mitigation, problems with equipment location, etc.
- [2] IF a battery was replaced,
THEN record the voltage of the new battery and the battery identification number.
 - [a] IF the battery does not have an identification number,
THEN:
 - Contact the MSGP Program Lead to have one assigned.
 - Paint or write the number in a permanent manner on the battery.
- [3] **ITEM 19:** Document if maintenance is needed that was not completed while on site and that is not documented elsewhere on the work order.
 - [a] Describe on the work order the follow-up maintenance needed.
 - [b] When the maintenance has been complete, describe the actions taken to complete the work on the original work order.
 - [c] Record the maintenance completion date and time on the original work order.

4.1.7 Bottle Information

- [1] **ITEM 20:** Document water collected by recording the following information for each bottle by position number in the carousel.

Inspecting ISCO Stormwater Runoff Samplers & Retrieving Samples	No: EPC-CP-TP-2103	Page 13 of 27
	Revision: 0	Effective Date: 02/24/2020

- Date (MM/DD/YY or MM-DD-YY) and time the ISCO collected water,
 - Volume (L or ml) of water in the bottle,
 - Type of bottle (e.g. G for glass, P for poly),
 - Specific ISCO displayed message, if present.
- [2] IF the sampler(s) did not trigger,
THEN answer the task line question as “N/A” for Bottle #1 of each sampler and leave the other Bottle task lines unanswered.
- [3] IF a sampler has been inactivated (e.g., sample collection completed) prior to this inspection but continues to appear on the inspection form,
THEN answer the task line question as “N/A”. Subsequent questions regarding this sampler may be left unanswered in this section.
- [4] Proceed to Section 4.4 if no water was collected.

4.2 Retrieving Samples

Refer to the flow diagram in Attachment 3 as an aid in determining sample retrieval.

- [1] Don nitrile gloves and safety glasses.
- [2] Add up the estimated volume of water collected in the sampler.
- [3] Check that the estimated total volume of water in glass and poly matches the required volume for the specific location identified in the MSGP SAP.
- NOTE 1:** The volume of water required to complete analytical may vary by monitored location.
- [a] IF the sample volume is sufficient to fulfill all analytical requirements,
THEN continue to Step 4.
- [b] IF the sample volume is sufficient to fulfill part of the analytical requirements,
THEN consult the prioritization order on the MSGP SAP to determine which analytical to fulfill,
OR contact the MSGP Data Manager. Continue to Step 4 but retrieve only the volume needed.
- [c] IF the collected sample will NOT fulfill the minimum required volume for any analytical,
THEN:
- Complete a Visual Assessment if the sample is not filtered (refer to EPC-CP-QP-2105),
 - Record estimated total volume (L or ml) retrieved as “0” in **ITEM 8**,

Inspecting ISCO Stormwater Runoff Samplers & Retrieving Samples	No: EPC-CP-TP-2103	Page 14 of 27
	Revision: 0	Effective Date: 02/24/2020

- Return all water to the ground at the sampling location,
- Skip to Step 11.

CAUTION

ISCO Avalanche samplers are programmed to cool samples to 4°C. If water is collected and the refrigerator temperature reads higher than 6°C, **do not** retrieve samples that require ICE preservation. Samples do not meet preservation requirements.

- [4] Remove filled and partially filled bottles from the carousel one at a time.
- [5] For samples to be retrieved,
 - [a] Immediately place lids onto the sample bottles.
 - [b] Securely seal the lids.
 - [c] Place a custody seal on each bottle.
- [6] Write the following on each retrieved sample bottle.
 - Date and time collected (e.g., recorded by the ISCO sampler)
 - Sampler Location number
- [7] Conduct a Visual Assessment on a non-filtered sample (refer to EPC-CP-QP-2105).
- [8] Record estimated total volume (L or ml) retrieved in **ITEM 8**.
- [9] Place retrieved sample bottles in a cooler with blue ice (or equivalent).
- [10] Return any excess stormwater collected that exceeded the amount required to the ground at the location collected.
- [11] Install new certified clean sample bottles in the carousel to replace retrieved bottles.
 - [a] The number and type of bottles may vary. Ensure bottles match the configuration specified in the MSGP SAP.
- [12] Replace the 0.45-micron filter as needed.

NOTE 2: Consult the most current revision of the MSGP SAP for specifics.
- [13] IF the sampler is turned OFF for the quarter but new certified clean sample bottles and/or the filter have not been replaced,
THEN note this as follow-up maintenance required in **ITEM 19**.
- [14] Replace and secure the center section of the sampler.
- [15] If the location has more than one sampler, complete Section 4.1.7 thru Section 4.2 for each sampler.
- [16] Return to Section 4.1.2, Step 5.



Inspecting ISCO Stormwater Runoff Samplers & Retrieving Samples	No: EPC-CP-TP-2103	Page 15 of 27
	Revision: 0	Effective Date: 02/24/2020

4.3 Removing Stormwater Samples from the field

- [1] Transport retrieved samples and corresponding SCPL (see EPC-CP-QP-2106) to the EPC-CP Stormwater Program Laboratory at TA-59-1.
- [2] Sign and date/time the SCPL and place it with the samples in the refrigerator.
- [3] Ensure custody seal is intact on each sample bottle.
- [4] Refer to EPC-CP-QP-2106, *Processing MSGP Stormwater Samples* for processing and submitting samples for shipping to the SMO.
- [5] Ensure the EPC-CP Stormwater Program Laboratory door is locked upon exit.

4.4 Completing the Inspection Form

See Attachment 1 for completing the form in MC Express and Attachment 2 for a hard copy example.

- [1] After all task lines have been completed, make sure you have clicked the “Save” bar at the bottom of the page.
- [2] Click the “Back” arrow button  in the upper left hand corner to exit the work order Tasks page and return to the Work Order Summary page.
- [3] Click the checkered flag  in the upper right corner of the Work Order Summary page to open the Work Order Status Update page. MC Express auto-populates the date and time fields.

CAUTION

MC Express automatically changes the work order status to “Closed.”

- [4] **ITEM 21:** Click on the expand arrow located on the right side of the “New Status” field and select “Completed” from the available dropdown menu.
 - [a] Ensure the date and time auto-populated are the date and time the **work was completed** and **not the date/time the form was filled out**.
 - [b] IF work is performed over multiple days, THEN note the date and time the work began in the Labor Report field.
 - [c] To update the date or time, click the “Date” field and make necessary adjustments using the available timestamp application. Click “Set” to apply changes.
 - [d] IF using a hard copy form, THEN write the date and time the work was completed.
- [5] **ITEM 22:** The field personnel must type or write his/her name in the “Labor Report Update” field.

Inspecting ISCO Stormwater Runoff Samplers & Retrieving Samples	No: EPC-CP-TP-2103	Page 16 of 27
	Revision: 0	Effective Date: 02/24/2020

- [6] Additional notes, observations, or site conditions not documented in a task line “Reading” or “Comments” field can be documented in the “Labor Report Update” field.
- [7] Scroll down the page to the “Signature” bar and click the expand arrow on the left side of the bar to open the “Signature” field.
 - [a] **ITEM 23:** Capture an electronic signature by drawing with a finger on the tablet screen.
NOTE: The mouse must be used to sign electronically when using MC Express on a desktop screen (not a tablet).
 - [b] If using a hard copy form, the field personnel will sign his/her name and date when the form is signed.
 - [c] The field personnel is certifying that the information submitted is “true, accurate, and complete” by electronically signing work order.
- [8] Click on the “Save” bar at the bottom of the page to close the “Signature” field.
- [9] IF completing a hard copy,
THEN return the form to the MSGP Program Lead.

5.0 TRAINING

Personnel performing steps in this procedure that involve electrical equipment **MUST** be trained to LANL electrical safety standards as prescribed in the IWD before performing those steps.

All EPC-CP personnel that execute the activities specified in this procedure must meet the minimum qualification and training requirements for their position as identified EPC-CP-PIP-2101, NPDES Multi-Sector General Permit Program. This will include “self-study” (required reading) for this procedure as assigned and documented in accordance with ADESH-TPP-301, *ADESH Training Program Plan*. Other participating LANL groups may require training documentation pursuant to local procedures.

Contract personnel that execute the activities specified in this procedure will be qualified and trained as required by the Exhibit D and Exhibit F. In addition, contract personnel will be required to complete “self-study” (required reading) of this procedure.

6.0 RECORDS

EPC-CP is the Office of Record for this document and must be maintained in accordance with [PD1020](#), *Document Control and Records Management* and ADESH-AP-006, *Records Management Plan*. Records generated by this document will be submitted to the Records Management designated point of contact or document manager for document management.

Below are records generated as a result of implementing this procedure. Records generated are identified by title and type.

Inspecting ISCO Stormwater Runoff Samplers & Retrieving Samples	No: EPC-CP-TP-2103	Page 17 of 27
	Revision: 0	Effective Date: 02/24/2020

Record Title	QA Record	Non-QA Record
EPC-CP-TP-2103 R0 Form 1, <i>ISCO Sampler Inspection and Sample Retrieval</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

7.0 DEFINITIONS AND ACRONYMS

7.1 Definitions

See LANL [Definition of Terms](#).

7.2 Acronyms

See LANL [Acronym Master List](#).

°C	Degrees in Celsius
EPC-CP	Environmental Protection and Compliance-Compliance Programs
FOD	Facility Operations Division
IWD	Integrated Work Document
L	Liter
LANL	Los Alamos National Laboratory
MC Express	Maintenance Connection MC Express web application
ml	Milliliter
MSGP	Multi-Sector General Permit
MST	Mountain Standard Time
NPDES	National Pollutant Discharge Elimination System
SAP	Sampling and Analysis Plan
SCPL	Sample Collection and Processing Log/Field Chain of Custody
V	Volts

8.0 REFERENCES

EPC-CP-QP-2105, MSGP Stormwater Visual Assessments

EPC-CP-QP-2106, Processing MSGP Stormwater Samples

EPC-CP-TP-2102, Installing, Setting Up, and Operating ISCO Samplers

EPC-CP-PIP-2101, NPDES Multi-Sector General Permit Program Implementation Plan

ADESH-TPP-301, ADESH Training Program Plan

ADESH-AP-006, Records Management Plan

PD1020, Document Control and Records Management

Inspecting ISCO Stormwater Runoff Samplers & Retrieving Samples	No: EPC-CP-TP-2103	Page 18 of 27
	Revision: 0	Effective Date: 02/24/2020

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

Inspecting ISCO Stormwater Runoff Samplers & Retrieving Samples	No: EPC-CP-TP-2103	Page 19 of 27
	Revision: 0	Effective Date: 02/24/2020

Attachment 1: Screenshot Examples of EPC-CP-TP-2103 R0 Form 1, ISCO Sampler Inspection and Sample Retrieval in MC Express

(Page 1 of 6)

Work Order Summary Page (Section 3.1, Steps 8 and 9)

MC Express

WORK ORDER: MSGP-59941
Summary

[MSGP05101] MSGP05101
TA-54 Area G
Issued

EXAMPLE ISCO Sampler Installation

	Tasks	25
	Assignments	1
	Labor	0
	Parts	0
	Other Costs	0
	Attachments	1
	Asset History	142

More Work Order Detail...

Refresh List

Inspecting ISCO Stormwater Runoff Samplers & Retrieving Samples	No: EPC-CP-TP-2103	Page 20 of 27
	Revision: 0	Effective Date: 02/24/2020

Attachment 1: Screenshot Examples of EPC-CP-TP-2103 R0 Form 1, *ISCO Sampler Inspection and Sample Retrieval* in MC Express (cont.)

(Page 2 of 6)

Work Order Tasks page - On Arrival (Section 4.1.1, Steps 2-5)

MC Express

WORK ORDER: MSGP-59941

Tasks

ON ARRIVAL

- 20**
Is sampler ON and functioning properly upon arrival?
Asset: [210C01437] ISCO 3700 Sampler
- 30**
Does the sampler display "Sampler Inhibited"? If No, record specific message(s).
Asset: [210C01437] ISCO 3700 Sampler
- 40**
Is sampler time delta < 1 min (MST)? If No, record adjustment
Asset: [210C01437] ISCO 3700 Sampler
- 50**
Is sampler ON and functioning properly upon arrival?
Asset: [210J01522] ISCO Avalanche Sampler
- 60**
Does the Avalanche display "Program Disabled"? If No, record specific message(s).
Asset: [210J01522] ISCO Avalanche Sampler
- 70**
Is sampler time delta < 1 min (MST)? If No, record adjustment
Asset: [210J01522] ISCO Avalanche Sampler

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

Not Applicable?

No

Complete?

No

Comments

Cancel Save

Inspecting ISCO Stormwater Runoff Samplers & Retrieving Samples	No: EPC-CP-TP-2103	Page 21 of 27
	Revision: 0	Effective Date: 02/24/2020

Attachment 1: Screenshot Examples of EPC-CP-TP-2103 R0 Form 1, *ISCO Sampler Inspection and Sample Retrieval* in MC Express (cont.)

(Page 3 of 6)

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)

The screenshot displays the MC Express mobile application interface. At the top, a blue header bar contains a back arrow, the text 'MC Express', and a menu icon. Below the header, a grey bar shows 'WORK ORDER: MSGP-59941' and 'Tasks' with a flag icon and a dropdown arrow. The main content area is divided into two sections: 'Water Collection information' and 'Water Retrieval information', both with black headers. Under 'Water Collection information', there are four task cards: 90 (Is there evidence of flow?), 100 (Is any water collected?), 110 (If water was collected, record current refrigerator temperature), and 120 (If water was collected, record the pH measurement). Each card has a red box with a number (4, 5, 6, 7) and a right arrow. Under 'Water Retrieval information', there are two task cards: 140 (Was sample volume RETRIEVED?) and 150 (Was a Visual Assessment performed?). These also have red boxes with numbers (8, 9) and right arrows. At the bottom, a blue bar contains an information icon, 'Refresh', a grid icon, and 'List'.

Work Order Task Page – On Departure (Sections 4.1.4, Steps 2 and 3)

This screenshot shows the 'ON DEPARTURE' section of the MC Express app. It follows the same header structure as the previous screenshot. The main content area has a black header labeled 'ON DEPARTURE'. Below it, there are two task cards: 170 (Are electrical connections secure?) and 180 (Record voltage of battery(ies) powering sampler). Each card features a red box with a number (10, 11) and a right arrow. The bottom blue bar is identical to the previous screenshot, with 'Refresh', a grid icon, and 'List' options.

Inspecting ISCO Stormwater Runoff Samplers & Retrieving Samples	No: EPC-CP-TP-2103	Page 22 of 27
	Revision: 0	Effective Date: 02/24/2020

Attachment 1: Screenshot Examples of EPC-CP-TP-2103 R0 Form 1, *ISCO Sampler Inspection and Sample Retrieval* in MC Express (cont.)

(Page 4 of 6)

Work Order Task Page – Equipment Specific Tasks (Sections 4.1.5, Steps 1-8)

The screenshot shows the 'MC Express' interface for Work Order MSGP-59941. The 'Tasks' section is titled 'Equipment specific tasks'. It lists six tasks, each with a flag icon, a number in a red box, a description, and an asset reference. Each task has a right-pointing arrow icon.

Task ID	Description	Asset
200	Does the sampler pass the ISCO diagnostics test?	[210C01437] ISCO 3700 Sampler
210	Is intake tubing free/clear of debris?	[210C01437] ISCO 3700 Sampler
220	Does sample tubing pass suction test?	[210C01437] ISCO 3700 Sampler
230	Is sampler on upon departure?	[210C01437] ISCO 3700 Sampler
240	Has the actuator switch been reset to "Latch"?	[210C01437] ISCO 3700 Sampler
250	Does ISCO display "Sampler Inhibited" on departure?	[210C01437] ISCO 3700 Sampler

At the bottom, there is a 'Refresh' button and a 'List' button.

Work Order Task Page – Maintenance Information (Sections 4.1.6, Steps 1-3)

The screenshot shows the 'MC Express' interface for Work Order MSGP-59941. The 'Tasks' section is titled 'Maintenance information'. It lists two tasks, each with a flag icon, a number in a red box, a description, and a right-pointing arrow icon.

Task ID	Description
330	Is any maintenance not described above completed during inspection? If Yes, describe.
340	Is any follow-on maintenance not described above required? If Yes, describe.

At the bottom, there is a 'Refresh' button and a 'List' button.

Inspecting ISCO Stormwater Runoff Samplers & Retrieving Samples	No: EPC-CP-TP-2103	Page 23 of 27
	Revision: 0	Effective Date: 02/24/2020

Attachment 1: Screenshot Examples of EPC-CP-TP-2103 R0 Form 1, ISCO Sampler Inspection and Sample Retrieval in MC Express (cont.)

(Page 5 of 6)

Work Order Task Page – Bottle Information (Sections 4.1.7, Step 1)

MC Express

WORK ORDER: MSGP-59941

Tasks

Bottle information: IF bottle collected record bottle type (P or G), collection date & time, volume, and/or any ISCO messages

360 Bottle #1? Asset: [210C01437] ISCO 3700 Sampler	→
370 Bottle #2? Asset: [210C01437] ISCO 3700 Sampler	→
380 Bottle #3? Asset: [210C01437] ISCO 3700 Sampler	→
390 Bottle #4? Asset: [210C01437] ISCO 3700 Sampler	→

Refresh List

MC Express

WORK ORDER: MSGP-59941

Edit Task

360
Bottle #1?
[210C01437] ISCO 3700 Sampler

Reading

2/10/17 14:32; 1L poly; no more liquid detected

Initials

Failed?

No

Not Applicable?

No

Complete?

Yes

Comments

Cancel Save

Inspecting ISCO Stormwater Runoff Samplers & Retrieving Samples	No: EPC-CP-TP-2103	Page 24 of 27
	Revision: 0	Effective Date: 02/24/2020

Attachment 1: Screenshot Examples of EPC-CP-TP-2103 R0 Form 1, *ISCO Sampler Inspection and Sample Retrieval* in MC Express (cont.)

(Page 6 of 6)

Work Order Status Update Page (Section 4.4, Steps 4 and 5)

MC Express

WORK ORDER: MSGP-59941
Status Update

Issued

New Status **21**

Completed

Date

03/16/2017 12:03 PM

Percent Complete 100%

Labor Report Update **22**

Select Comments to Add.....

Jane Admin

Cancel Save

Work Order Status Update Page (Section 4.4, Step 7)

MC Express

WORK ORDER: MSGP-59941
Status Update

Signature **23**

(Remove)

Jane Admin

Cancel Save

Inspecting ISCO Stormwater Runoff Samplers & Retrieving Samples	No: EPC-CP-TP-2103	Page 25 of 27
	Revision: 0	Effective Date: 02/24/2020

Attachment 2: EPC-CP-TP-2103 R0 Form 1, ISCO Sampler Inspection and Sample Retrieval Hard Copy Example
(Page 1 of 2)

Los Alamos National Lab - ADESH

Work Order MSGP-59941

MSGP Monitoring Stations
Printed 8/10/2017 - 11:25 AM (Duplicate Copy)


Maintenance Details				
Requested By:	Admin, Jane on 8/10/2019 11:23:00 AM	Target: 12/31/2019	MSGP Program	
Procedure:	MSGP ISCO Sampler Inspection and Sample Retrieval (EPC-CP-TP-2103 R0 Form 1)	Priority/Type: / Inspection	RG121.9	
		Department: Utilities and Infrastructure	TA-3-38 Carpenter Shop	
			Monitored Outfall (073)	
			MSGP07302	
Last PM:	7/20/2019		Contact:	Admin, Jane
Project:			Phone:	123-4567
Reason:	Example ISCO Sampler Inspection and Sample Retrieval			

Tasks					
#	Description	Meas.	No	N/A	Yes
ON ARRIVAL					
1	20 ISCO 3700 Sampler [210C01437] Is sampler ON and functioning properly upon arrival?		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	30 ISCO 3700 Sampler [210C01437] Does the sampler display "Sampler Inhibited"? If No, record specific message(s).		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	40 ISCO 3700 Sampler [210C01437] Is sampler time delta < 1 min (MST)? If No, record adjustment		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	50 ISCO Avalanche Sampler [210J01522] Is sampler ON and functioning properly upon arrival?		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	60 ISCO Avalanche Sampler [210J01522] Does the Avalanche display "Program Disabled"? If No, record specific message(s).		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	70 ISCO Avalanche Sampler [210J01522] Is sampler time delta < 1 min (MST)? If No, record adjustment		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Water Collection information					
4	90 Is there evidence of flow? If YES (but no water collected), describe and record date/time of discharge.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	100 Is any water collected? If YES, complete Bottle Information section.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6	110 ISCO Avalanche Sampler [210J01522] If water was collected, record current refrigerator temperature (C).		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	120 ISCO pH and Temp Module [21 1C01137] If water was collected, record the pH measurement corresponding to the sample date/time: AVERAGE: MINIMUM: MAXIMUM:		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Water Retrieval information					
8	140 Was sample volume RETRIEVED? If Yes, record total volume retrieved.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9	150 Was a Visual Assessment performed? If Yes, complete the MSGP Visual Assessment form (EPC-CP-QP-2105).		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ON DEPARTURE					
10	170 Are electrical connections secure?		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11	180 Record voltage of battery(ies) powering sampler. Voltage(s) >=11.7V?		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Equipment specific tasks					
12	200 ISCO 3700 Sampler [210C01437] Does the sampler pass the ISCO diagnostics test?		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13	210 ISCO 3700 Sampler [210C01437] Is intake tubing free/clear of debris?		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14	220 ISCO 3700 Sampler [210C01437] Does sample tubing pass suction test?		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15	230 ISCO 3700 Sampler [210C01437] Is sampler on upon departure?		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16	240 ISCO 3700 Sampler [210C01437] Has the actuator switch been reset to "Latch"?		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17	250 ISCO 3700 Sampler [210C01437] Does ISCO display "Sampler Inhibited" on departure?		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Inspecting ISCO Stormwater Runoff Samplers & Retrieving Samples	No: EPC-CP-TP-2103	Page 26 of 27
	Revision: 0	Effective Date: 02/24/2020

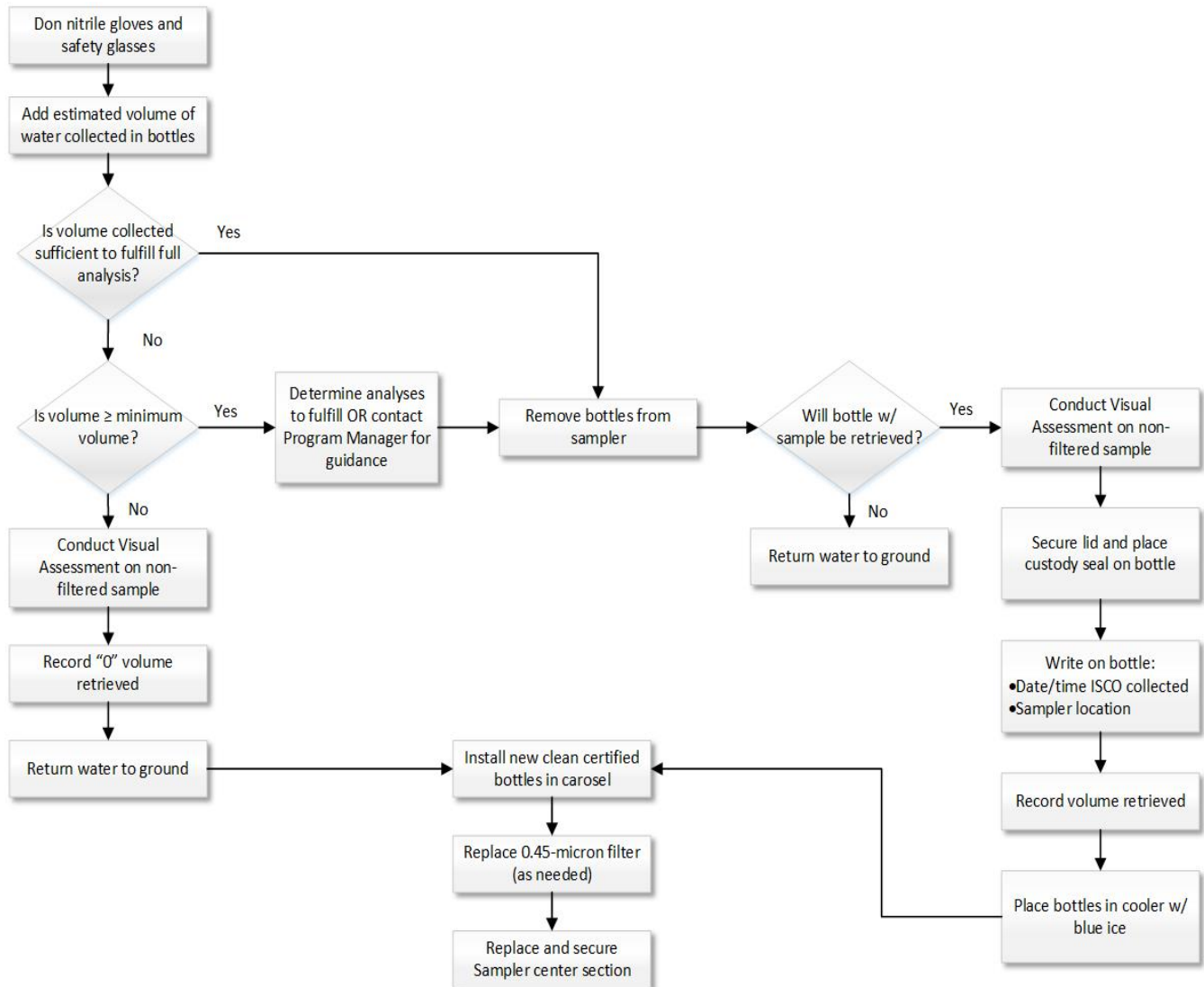
Attachment 2: EPC-CP-TP-2103 R0 Form 1, ISCO Sampler Inspection and Sample Retrieval Hard Copy Example (cont.)

(Page 2 of 2)

260	ISCO Avalanche Sampler [210J01522] Does the sampler pass the ISCO diagnostics test?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
270	ISCO Avalanche Sampler [210J01522] Is intake tubing free/clear of debris?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
280	ISCO Avalanche Sampler [210J01522] Does sample tubing pass suction test?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
290	ISCO Avalanche Sampler [210J01522] Is sampler on upon departure?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
300	ISCO Avalanche Sampler [210J01522] Has the actuator switch been reset to "Latch"?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
310	ISCO Avalanche Sampler [210J01522] Does Avalanche display "Program Disabled" on departure?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Maintenance Information				
18	330 Is any maintenance not described above completed during inspection? If Yes, describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
19	340 Is any follow-on maintenance not described above required? If Yes, describe.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bottle Information: IF bottle collected record bottle type (P or G), collection date & time, volume, and/or any ISCO messages				
20	360 ISCO 3700 Sampler [210C01437] Bottle #1?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	370 ISCO 3700 Sampler [210C01437] Bottle #2?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	380 ISCO 3700 Sampler [210C01437] Bottle #3?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	390 ISCO 3700 Sampler [210C01437] Bottle #4?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	400 ISCO 3700 Sampler [210C01437] Bottle #5?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	410 ISCO 3700 Sampler [210C01437] Bottle #6?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	420 ISCO 3700 Sampler [210C01437] Bottle #7?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	430 ISCO 3700 Sampler [210C01437] Bottle #8?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	440 ISCO 3700 Sampler [210C01437] Bottle #9?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	450 ISCO 3700 Sampler [210C01437] Bottle #10?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	460 ISCO 3700 Sampler [210C01437] Bottle #11?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	470 ISCO 3700 Sampler [210C01437] Bottle #12?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	480 ISCO Avalanche Sampler [210J01522] Bottle #1?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	490 ISCO Avalanche Sampler [210J01522] Bottle #2?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	500 ISCO Avalanche Sampler [210J01522] Bottle #3?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	510 ISCO Avalanche Sampler [210J01522] Bottle #4?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Labor Report				
21	Completed: 5/30/2019 4:44:00 PM			
22	Report: Jane Admin			
23	 Signature / Name	5/30/2019 Date	 Signature / Name	 Date
I confirm the information as recorded is true, accurate and complete.				

Attachment 3: Sample Retrieval Flow Diagram

(Page 1 of 1)



ATTACHMENT 20: EPC-CP-QP-2106, PROCESSING MSGP STORMWATER SAMPLES

EPC-CP-QP-2106

Revision: 1



Effective Date: 11/28/2022

Next Review Date: 11/28/2025

Environment, Safety, Health, Quality, Safeguards, and Security Directorate
Environment Protection and Compliance – Compliance Programs Group
Quality Procedure

Processing MSGP Stormwater Samples

Hazard Grading: ☒ Low ☐ Moderate ☐ High/Complex
Usage Level: ☒ Reference ☐ UET ☐ Mixed: UET Sections: _____
Status: ☐ New ☒ Major Revision ☐ Minor Revision
☐ Review w/No Changes ☐ Other: _____
Safety Basis: ☒ N/A ☐ USQ ☐ USI Number: _____

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Processing MSGP Stormwater Samples	No: EPC-CP-QP-2106	Page 2 of 19
	Revision: 1	Effective Date: 11/28/2022

REVISION HISTORY

Document Number and Revision	Effective Date	Description of Changes
ENV-RCRA-QP-048, Rev. 0	07/2011	New document
ENV-CP-QP-048, Rev. 1	09/2013	Annual Review and Revision, new format, process change, and new organization name.
EPC-CP-QP-048, Rev. 2	06/05/2017	Review and Revision, new format, and new organization name, clarified steps, updated attachments.
EPC-CP-QP-048 R3	10/05/2017	Updated Sample Collection Log instructions, added a step describing evidence of flow, and added section for addressing excess stormwater material.
EPC-CP-QP-048 R4	01/31/2019	Sample Collection Log form and associated text updated. Added text for collecting quality control samples.
EPC-CP-QP-2106 R0	10/18/2019	Supersedes EPC-CP-QP-048 R4. New EPC-CP procedure format and numbering system. Minor editorial updates.
EPC-CP-QP-2106 R1	11/28/2022	Supersedes EPC-CP-QP-2106 R0. Review and revise to update to the 2021 MSGP.

Processing MSGP Stormwater Samples	No: EPC-CP-QP-2106	Page 3 of 19
	Revision: 1	Effective Date: 11/28/2022

Table of Contents

Revision History	2
1.0 Introduction	4
1.1 Purpose	4
1.2 Scope	4
1.3 Applicability	4
2.0 Precautions and Limitations	4
3.0 Prerequisite Actions.....	5
3.1 Planning and Coordination.....	5
3.2 Performance Documents	5
3.3 Special Tools, Equipment, Parts and Supplies.....	5
3.4 Equipment Calibration	6
4.0 Processing Samples.....	6
4.1 Preparation for Processing Samples	7
4.2 Filtering Samples	9
4.3 Preserving Unfiltered and Filtered Samples.....	10
4.4 Quality Control Samples.....	11
4.4.1 Field Blank Samples.....	11
4.4.2 Field Duplicate Samples	12
4.5 Handling Excess Stormwater	12
4.6 Submit Samples for Shipping to Offsite Analytical Laboratory	13
5.0 Training	14
6.0 Records	14
7.0 Definitions and Acronyms.....	15
7.1 Definitions	15
7.2 Acronyms.....	15
8.0 References	15
9.0 Attachments	16
Attachment 1: EPC-CP-QP-2106 R1 Form 1, MSGP pH Probe Calibration Log.....	17
Attachment 2: Water Sample Collection and Processing Log/Field Chain of Custody Example	18
Attachment 3: Sample Container Labels Example.....	19

Processing MSGP Stormwater Samples	No: EPC-CP-QP-2106	Page 4 of 19
	Revision: 1	Effective Date: 11/28/2022

1.0 INTRODUCTION

Triad National Security LLC, the operator for Los Alamos National Laboratory (LANL or the Laboratory), conducts stormwater monitoring activities pursuant to the National Pollutant Discharge Elimination System (NPDES), Multi-Sector General Permit (MSGP). As part of this monitoring, Environmental Protection and Compliance, Compliance Programs (EPC-CP) personnel collect stormwater discharge samples from discharge points at industrial sites and prepare them for analysis.

1.1 Purpose

This procedure describes the process for filtering, preserving and preparing stormwater samples for shipment to an analytical laboratory from locations where EPC-CP conducts stormwater monitoring activities required pursuant to the NPDES MSGP. This procedure may also be used for other Associate Laboratory Directorate for Environment, Safety, Health, Quality, Safeguards, and Security (ALDESHQSS) stormwater monitoring activities as needed.

1.2 Scope

Stormwater samples are collected in the field with either a refrigerated Avalanche® or ISCO 3700 automated sampler, single stage sampler, or by hand. When in-line filtration is not possible, sample filtration, along with chemical preservation (as required) is conducted immediately following sample retrieval in the field or in the EPC-CP Stormwater Laboratory (TA-59-0001).

Sample collection, submission, and analysis is conducted using Environmental Protection Agency (EPA) and New Mexico Water Quality Control Commission guidelines. MSGP monitoring samples are collected and analyzed according to test procedures approved under Title 40 of the Code of Federal Regulations Part 136 unless other test procedures have been specified in the MSGP. Quantitation limits associated with these test procedures are sufficiently sensitive to meet MSGP limits.

1.3 Applicability

This procedure applies to EPC-CP technical staff and subcontractor personnel (as applicable) who conduct processing and chemical preservation of stormwater samples either in the EPC-CP Stormwater Laboratory or in the field.

The MSGP Program Lead is the primary person responsible for this procedure. EPC-CP personnel are appointed responsibility for a subset of sampling stations. Other stormwater monitoring programs or projects utilizing this procedure will refer to program or project specific roles and responsibilities.

2.0 PRECAUTIONS AND LIMITATIONS

The hazard level for the activities in this procedure is **LOW**. An Integrated Work Document Part II (2101 Form) will address any site-specific requirements and training for Facility Operations Divisions (FOD) if required by the FOD.

Processing MSGP Stormwater Samples	No: EPC-CP-QP-2106	Page 5 of 19
	Revision: 1	Effective Date: 11/28/2022

Use only sample containers that are documented to meet or exceed “US EPA Specification and Guidance for Contaminant-Free Sample Containers” (Publication 9240.05A, EPA/540/R-93/051, December 1992). Never clean or re-use sample containers. Keep containers in a clean, dry place until a sample is ready for processing and transfer to the appropriate container(s).

3.0 PREREQUISITE ACTIONS

3.1 Planning and Coordination

Refer to the most current revision of the MSGP or program/project specific Sampling and Analysis Plan (SAP) to determine the need for collecting quality control samples. Collect the types and quantities of quality control samples at the locations specified.

Schedule and complete stormwater processing to meet the analytical holding time requirements identified in the MSGP SAP or as requested by the MSGP Program Lead. Other stormwater monitoring programs or projects utilizing this procedure will refer to their program or project specific SAP.

The MSGP Data Manager will generate Water Sample Collection and Processing Log/Field Chain of Custody (SCPL) form(s) at the beginning of the MSGP monitoring year and/or the beginning of each MSGP monitoring quarter from the Environmental Information Management (EIM) database. If the MSGP Data Manager is not available, forms will be obtained from the EPC-CP Sample Management Office (SMO). The SMO will generate Chain of Custody/Analysis Request form(s) as samples are submitted for shipment to an analytical laboratory.

3.2 Performance Documents

Personnel performing this procedure will be familiar with the most current versions of the following documents if the equipment or chemicals are utilized.

- EPC-CP MSGP SAP for the current monitoring year
- Peristaltic Pump User Manual (e.g., GeoTech®)
- pH meter and probe user manual (e.g., HACH sensION® + Portable Meter, HACH 50 50 T® probe)
- Material Safety Data Sheet or Safety Data Sheet for preservation chemicals

3.3 Special Tools, Equipment, Parts and Supplies

Ensure the following equipment is available:

- Safety glasses with side shields
- Nitrile gloves
- Lab coat
- Eyewash in Stormwater Lab (or portable eyewash in the field)

Processing MSGP Stormwater Samples	No: EPC-CP-QP-2106	Page 6 of 19
	Revision: 1	Effective Date: 11/28/2022

- Water SCPL form
- EPC-CP MSGP SAP most recent revision for the current monitoring year OR project specific monitoring plan
- Sample containers (glass and poly bottles)
- Sample container lids
- pH meter and probe
- Acid and base preservatives
- Clean silicon (e.g., Tygon) tubing
- Portable peristaltic pump (e.g., Geopump or equivalent)
- 0.45 micron (μm) and/or 0.10 μm cartridge filters (where applicable)
- Deionized water (where applicable)
- Paper towels
- Coolers with ice, Blue Ice[®], or equivalent
- Ball point pen
- Permanent marker
- Chain-of-custody seals/tape
- Copy of this procedure
- Cell phone (only government cell phones are allowed in secure areas) (See <https://int.lanl.gov/policy/documents/P217.pdf> for requirements for using portable electronic devices on Laboratory property.

3.4 Equipment Calibration

Some analyses specified in the program or project SAP require recording field parameters such as pH. If a pH meter and probe are used, the equipment will be calibrated once before each use. Follow the instructions in the equipment manufacturer's manual to perform a three-point calibration with certified pH buffers 4.00, 7.00, and 10.00. Record the calibration results in a dedicated calibration notebook or on EPC-CP-QP-2106 R1 Form 1, *MSGP pH Probe Calibration Log* (see Attachment 1).

4.0 PROCESSING SAMPLES

In this procedure, sample collection bottles are the bottles in which the sample was collected in the field. Sample containers are containers into which the original sample is transferred (as necessary) during processing and shipped to the analytical laboratory.

Processing MSGP Stormwater Samples	No: EPC-CP-QP-2106	Page 7 of 19
	Revision: 1	Effective Date: 11/28/2022

NOTE: Prior to performing any of the steps in the following sub-sections, ensure that you are wearing the proper clothing. Don nitrile gloves, safety glasses with side shields, and a lab coat. Confirm that the eyewash station is operational prior to processing samples.

4.1 Preparation for Processing Samples

Sample Retriever

- [1] Arrange sample collection bottles on the workbench in order by MSGP sampling location, ensuring to distinguish bottles collected via in-line filtration from non-filtered bottles, where applicable.

CAUTION

Process only one sample set (i.e., samples listed on one SCPL form or samples from one location) at a time to ensure stormwater from different locations is not co-mingled.

- [2] Cross-check the Location ID (e.g., MSGP00201) on the sample bottles with the LOCATION ID on the SCPL form (see example in Attachment 2).
- [3] Ensure the pre-populated information on the SCPL form is correct. Document any changes [e.g., change FIELD MATRIX code from rain (WT) to snowmelt (WM)].
- [4] Write the following information on the SCPL.
 - [a] Sampler Inspection and Sample Retrieval form (refer to EPC-CP-TP-2103) identification number (e.g., Work Order: MSGP-xxxx);
 - [b] Date/time the sample was collected in the field (e.g., date/time automated sampler filled the sample bottles or a grab sample was taken);
 - [c] Date/time the sample was retrieved from the field;
 - [d] “Not Applicable” (N/A) in the LOCATION SYNONYM(S) field unless the information is required by the SAP;
 - [e] N/A in the PRIORITY box if box is not pre-populated;
 - [f] Any pertinent information regarding sample collection and/or retrieval in the SAMPLE COMMENTS field (e.g., grab sample collected by hand, recent erosion observed up-gradient of sampler) or N/A;
 - [g] N/A for FIELD PARAMETER Sample Time (this is documented at the top of the form as COLLECTION TIME);
 - [h] pH measurement taken at the time the sample was collected in the field OR time sample was received at the EPC-CP Stormwater Laboratory (if applicable) or N/A;
 - [i] Indicate if a visual assessment was performed.

Processing MSGP Stormwater Samples	No: EPC-CP-QP-2106	Page 8 of 19
	Revision: 1	Effective Date: 11/28/2022

- IF a visual assessment **WAS NOT** performed, THEN write N or No in the Visual Inspection space.
 - IF a visual assessment **WAS** performed, THEN write Y or Yes in the Visual Inspection space and the identification number from the MSGP Visual Assessment form (refer to EPC-CP-QP-2105) (e.g., MSGP-xxxx).
- [j] The printed name and signature of the person who retrieved the sample in the COLLECTED BY box and date/time the sample was retrieved from the field.
- [5] IF the person who retrieved the sample is processing, THEN write N/A in the first RELINQUISHED BY and RECEIVED BY boxes.
- [6] IF the person who retrieved the sample is NOT processing, THEN
- [a] He/she will print and sign his/her name and the date/time samples are relinquished to the processor in the RELINQUISHED BY box.
- [b] The processor will print and sign his/her name and the date/time samples are received in the first RECEIVED BY box.

Sample Processor

- [7] Ensure the following information is correct for the analysis requested on the SCPL.
- [a] Sample container volume and type [e.g., 500 milliliter (mL) POLY].
- [b] Preservation type (e.g., ICE).
- [c] Note any deviation from the planned sample container volume, type, or preservation on the SCPL.
- [8] Determine which samples require filtration and chemical preservation as requested on the SCPL.
- [a] Match each sample container with the SCPL(s) on the workbench.
- NOTE 2:** Requirements are also identified in the most current SAP revision.
- [9] For split samples, follow these steps:
- [a] Turn the sample collection bottle upside down multiple times to ensure sediment is loose from the bottom of the bottle.
- [b] Pour sample into sample containers ensuring the sample remains homogenized throughout the transfer.
- [10] Refer to Section 4.2 Filtering Samples, Section 4.3 Preserving Unfiltered and Filtered Samples, and Section 4.4 Quality Control Samples as needed.

Processing MSGP Stormwater Samples	No: EPC-CP-QP-2106	Page 9 of 19
	Revision: 1	Effective Date: 11/28/2022

- [11] Indicate if each sample on the SCL was collected by writing Y for Yes or N for No in the COLLECTED Y/N box.
- [12] IF the SPECIAL INSTRUCTIONS box is not pre-populated, THEN write N/A in the box.
- [13] Document any other deviations from the planned sample processing on the SCPL (e.g., turbid sample required extra filtration step, used standard deionized water in lieu of ultrapure water for field blank) under PROCESSING COMMENTS or SAMPLING COMMENTS,
OR write N/A.
- [14] IF no further processing is required (e.g., chemical preservation), THEN apply a chain-of-custody seal/tape around the bottle and lid and sign and date the seal/tape.
- [15] The person processing the sample will print and sign his/her name and indicate the date/time samples were processed in the PROCESSED BY box.
- [16] Proceed to Section 4.5.

4.2 Filtering Samples

Filter samples if specified on the SCPL or if an in-line filter was not used during sample collection.

- [1] Select the appropriate-sized cartridge filter (e.g., 0.10µm or 0.45µm).
- [2] Set up the filter assembly.
 - [a] Attach an appropriate amount of silicone tubing to both ends of the cartridge filter.
 - [b] Place the filter upstream of the peristaltic pump to prevent over-pressurization.
 - [c] IF the sample contains a significant amount of sediment, THEN a pre-filter of the same size or larger micron capacity may be used.
- [3] For split filtered samples, follow these steps:
 - [a] Move the intake tube up and down through the sample during filtration.

NOTE 1: A sample collected solely for filtration can be filtered without being homogenized by gently shaking.
- [4] Replace the filter if any of the following conditions occur:
 - flow diminishes,
 - the pump begins to make a grinding sound, or
 - the tubing is forced off the filter by backpressure.

Processing MSGP Stormwater Samples	No: EPC-CP-QP-2106	Page 10 of 19
	Revision: 1	Effective Date: 11/28/2022

- [5] Place the lid on the container.
 - [a] Ensure the lid is securely affixed to the container.
 - [b] Add a check mark next to the filtered requirement previously marked on the lid to indicate that filtration has been completed.
 - [c] Clean and dry the exterior of sample container.
 - [d] Check sample container for leakage and breakage.
- [6] Remove and dispose of filter and tubing when filtration of one sample set (location) has been completed.

NOTE 2: A new filter must be used with each new sample set.
- [7] Return to Section 4.1, Step 11.

4.3 Preserving Unfiltered and Filtered Samples

Preservation entails the addition of acid or base to a sample. Acids currently used include hydrochloric acid (HCl), nitric acid (HNO₃), and sulfuric acid (H₂SO₄). Bases currently used in preservation include sodium hydroxide (NaOH). Review the appropriate Material Safety Data Sheet or Safety Data Sheet for specific guidelines prior to preserving samples. Specific acids/bases used depend on the required monitored parameters and are subject to change (e.g., biennial Clean Water Act §303(d)/305(b) Integrated Report updates).

WARNING

Preservatives are strong acids and bases that can cause severe burns. Take extreme care when using these acids and bases.

- [1] Review the analysis requested on the SCPL or SAP.
- [2] Select the pre-measured preservative type and size that matches the sample container size.
 - [a] IF you only have one size pre-measured preservative that does not match the sample container size, THEN you will use more than one. For example, if you have a 1-liter sample container and 500 mL pre-measured preservative vial, you will need to add two preservative vials to the sample container.

NOTE: Never "split" a larger volume pre-measured vial to preserve a smaller volume container (e.g., do not pipette from a 1-liter, pre-measured preservative vial to preserve a 500 mL sample). Error in measurement precision may lead to a risk of violating Department of Transportation shipping requirements.
- [3] Add the preservative (acid or base) to the sample.
 - [a] Securely affix the lid to the container.

Processing MSGP Stormwater Samples	No: EPC-CP-QP-2106	Page 11 of 19
	Revision: 1	Effective Date: 11/28/2022

- [b] Agitate the preserved sample by turning the container upside down two to three times.
- [4] Add a check mark next to the preservation type previously marked on the lid to indicate that preservation has been completed.
 - [a] Clean and dry the exterior of sample container.
 - [b] Check sample container for leakage and breakage.
- [5] Return to Section 4.1, Step 11.

4.4 Quality Control Samples

Refer to the SCPL or the program specific SAP for the types and quantities of quality control samples and the locations where these samples will be collected.

4.4.1 Field Blank Samples

- [1] Review the analysis requested on the SCPL or SAP.
 - [a] Ensure the sample container volume, type, and preservation type is correct for the analysis requested (e.g., 500 mL POLY, HNO₃).
 - [b] Note any deviation from the planned sample container volume or type on the SCPL.

CAUTION

DO NOT use tap, distilled, or drinking water purchased from a local store. These sources may not meet the water quality standards specified in the New Mexico Administrative Code (Title 20, Chapter 6, Part 4).

- [2] Obtain analyte free water (e.g., High Performance Liquid Chromatography grade ultrapure in amber glass sealed bottles) or water from the TA-59-0001 deionized water system in sufficient quantity to fulfill the analysis requested.
- [3] Select another empty sample container(s) of the same type and volume for the analysis requested.
- [4] Mark the bottle and container lids with the 3-digit outfall ID and "Field Blank".
- [5] Transport both the field blank bottle(s) and container(s) to the sampling location.
- [6] During retrieval of samples, open the field blank bottle(s) and pour the analyte free water into the field blank sample container(s).
- [7] Securely affix the lid(s) to the container(s).
- [8] Replace the lid on the analyte free water bottle.

Processing MSGP Stormwater Samples	No: EPC-CP-QP-2106	Page 12 of 19
	Revision: 1	Effective Date: 11/28/2022

- [a] IF 500 mL or greater remain in the bottle,
THEN replace lid and mark the bottle with the date it was opened and “For Decon Use Only”.
- [b] IF less than 500 mL remain in the bottle,
THEN dispose of water in the EPC-CP Stormwater Laboratory sink and dispose of the bottle.
- [9] Return the field blank containers with retrieved samples to the EPC-CP Stormwater Laboratory (TA-59-0001) for any further required processing.
- [10] Return to Section 4.1, Step 11 to complete sample processing.

4.4.2 Field Duplicate Samples

- [1] Review the analysis requested on the SCPL or SAP.
 - [a] Ensure the sample container volume, type, and preservation type is correct for the analysis requested (e.g., 500 mL POLY, HNO₃).
 - [b] Note any deviation from the planned sample container volume, type, or preservation on the SCPL.
- [2] Field duplicate samples must be samples collected from the same location, at the same time, and in the same manner:
 - Select two sample collection bottles next to each other in the automated sampler carousel.

OR

 - Select one sample collection bottle to split into separate sample containers
- [3] For split samples, follow these steps:
 - [a] Turn the sample collection bottle upside down multiple times to ensure sediment is loose from the bottom of the bottle.
 - [b] Pour sample into sample containers ensuring the sample remains homogenized throughout the transfer.
- [4] Return to Section 4.1, Step 11 to complete sample processing.

4.5 Handling Excess Stormwater

Minimize the amount of stormwater sample brought into the EPC-CP Stormwater Laboratory. Field personnel will attempt to retrieve only the volumes needed to fulfill the requested analyses from the current MSGP SAP or program/project specific SAP.

Processing MSGP Stormwater Samples	No: EPC-CP-QP-2106	Page 13 of 19
	Revision: 1	Effective Date: 11/28/2022

Sample Processor

- [1] IF any excess stormwater sample exists after processing has been completed,
THEN
- Return to site of origin
- OR
- Select one sample collection Form.

4.6 Submit Samples for Shipping to Offsite Analytical Laboratory

Sample Processor

- [1] Ensure the sample containers are securely sealed and wiped dry.
- [2] Compare the information from the SCPL and lid of each container and apply the correct labels to the sample containers. Refer to Attachment 2 for an example of sample container labels.
- [3] Write the date and time the sample was collected on each label.
- [4] IF the person who processed the sample is NOT submitting the samples to the SMO,
THEN
- [a] He/she will print and sign his/her name and the date/time samples are relinquished to the submitter in the second RELINQUISHED BY box.
- [b] The submitter will print and sign his/her name and the date/time samples are received in the second RECEIVED BY box.

EPC-CP technical staff

- [5] Transport samples from the EPC-CP Stormwater Laboratory (TA-59-0001) to the SMO (TA-59-0001).
- [a] Deliver samples during SMO business hours by 2pm for same day shipping.
- [b] Coordinate with the SMO for delivery during other times or for delivery of samples that have limited holding times.
- [c] If delivery of samples to the SMO will be delayed, place sample containers with SCPL(s) in the EPC-CP Stormwater Laboratory refrigerator and ensure EPC-CP Stormwater Laboratory door is locked.
- [6] Complete the SCPL form as follows:
- [a] Ensure all fields are filled out with sample information or N/A. Do not leave blank fields.
- [b] In the RELINQUISHED BY box, the person submitting the sample(s) will sign and print his/her name.

Processing MSGP Stormwater Samples	No: EPC-CP-QP-2106	Page 14 of 19
	Revision: 1	Effective Date: 11/28/2022

- [7] [c] The SMO personnel accepts the sample(s) by signing and printing his/her name and recording the date/time in the RECEIVED BY box. Ensure the following steps are taken:
 - [a] SMO keeps the original SCPL(s) to accompany the samples.
 - [b] Keep a copy of the signed SCPL(s) for the MSGP Program.
- [8] Deliver the copy of the signed SCPL(s) to the MSGP Data Manager.

MSGP Data Manager

- [9] Process the sample information in the EIM system.
 - [a] Capture any documented deviations from planned conditions (as noted on the SCPLs).

5.0 TRAINING

All EPC-CP personnel that execute the activities specified in this procedure must meet the minimum qualification and training requirements for their position as identified in EPC-CP-PIP-2101, NPDES Multi-Sector General Permit Program. This will include “self-study” (required reading) for this procedure as assigned and documented in accordance with ADESH-TPP-301, *ADESH Training Program Plan*. Other participating LANL groups may require training documentation pursuant to local procedures.

Contract personnel that execute the activities specified in this procedure will be qualified and trained as required by the Exhibit D and Exhibit F. In addition, contract personnel will be required to complete “self-study” (required reading) of this procedure. All training must be assigned and tracked using the Laboratory training management system, UTrain.

6.0 RECORDS

EPC-CP is the Office of Record for this document, that must be maintained in accordance with [P1020-1](#), *Laboratory Records Management* and ESH-AP-006, *Records Management Plan*. Records generated by this document will be submitted to the Records Management designated point of contact or document manager for document management.

Below are records generated as a result of implementing this procedure identified by title and type.

Record Title	QA Record	Non-QA Record
EPC-CP-QP-2106 R1 Form 1, <i>MSGP pH Probe Calibration Log</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
*Water Sample Collection and Processing Log/Field Chain of Custody	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Copy of logbook entry(s) (if a logbook is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other pertinent field or lab notes (if additional notes are required)	<input checked="" type="checkbox"/>	<input type="checkbox"/>

*The original document is part of the data package QA records for the SMO. MSGP retains a copy for tracking purposes only.

Processing MSGP Stormwater Samples	No: EPC-CP-QP-2106	Page 15 of 19
	Revision: 1	Effective Date: 11/28/2022

7.0 DEFINITIONS AND ACRONYMS

7.1 Definitions

See LANL [Definition of Terms](#).

7.2 Acronyms

See LANL [Acronym Master List](#).

EIM	Environmental Information Management
EPA	Environmental Protection Agency
EPC-CP	Environmental Protection and Compliance – Compliance Programs
FOD	Facility Operations Director
LANL	Los Alamos National Laboratory
μm	Micron
mL	Milliliter
MSGP	Multi-Sector General Permit
N/A	Not Applicable
NPDES	National Pollutant Discharge Elimination System
pH	Potential of Hydrogen
SAP	Sample Analysis Plan
SCPL	Water Sample Collection and Processing Log/Field Chain of Custody
SMO	Sample Management Office

8.0 REFERENCES

Code of Federal Regulation Title 40 Part 136, *Guidelines Establishing Test Procedures for the Analysis of Pollutants*

ESH-AP-006, *Records Management Plan*

P1020-1, *Laboratory Records Management*

P217, *Controlled Portable Electronics Devices*

New Mexico Administrative Code Title 20, Chapter 6, Part 4, *Standards for Interstate and Intrastate Surface Waters*.

US EPA Publication 9240.05A, EPA/540/R-93/051, *Specification and Guidance for Contaminant-Free Sample Containers*, December 1992

Processing MSGP Stormwater Samples	No: EPC-CP-QP-2106	Page 16 of 19
	Revision: 1	Effective Date: 11/28/2022

9.0 ATTACHMENTS

Attachment 1: EPC-CP-QP-2106 R1 Form 1, *MSGP pH Probe Calibration Log*

Attachment 2: Water Sample Collection and Processing Log/Field Chain of Custody Example

Attachment 3: Sample Container Labels Example

Processing MSGP Stormwater Samples	No: EPC-CP-QP-2106	Page 17 of 19
	Revision: 1	Effective Date: 11/28/2022

Attachment 1: EPC-CP-QP-2106 R1 Form 1, MSGP pH Probe Calibration Log

(Page 1 of 1)

MSGP pH Probe Calibration Log

(Method: SM 4500-H+ B-2011 and Instrument User Manual)

Date: _____ Time: _____ pH Probe #: _____	
Location: _____ Analyst : _____	
Calibration Certified Buffers Used (units = S.U.)	pH Probe Stabilization Reading (S.U.)*
<input type="checkbox"/> 4.00 Expiration Date: _____	_____
<input type="checkbox"/> 7.00 Expiration Date: _____	_____
<input type="checkbox"/> 10.00 Expiration Date: _____	_____
*Reading must be within +/- 0.50 S.U. for valid calibration. If unachievable, explain:	

Date: _____ Time: _____ pH Probe #: _____	
Location: _____ Analyst : _____	
Calibration Certified Buffers Used (units = S.U.)	pH Probe Stabilization Reading (S.U.)*
<input type="checkbox"/> 4.00 Expiration Date: _____	_____
<input type="checkbox"/> 7.00 Expiration Date: _____	_____
<input type="checkbox"/> 10.00 Expiration Date: _____	_____
*Reading must be within +/- 0.50 S.U. for valid calibration. If unachievable, explain:	

Date: _____ Time: _____ pH Probe #: _____	
Location: _____ Analyst : _____	
Calibration Certified Buffers Used (units = S.U.)	pH Probe Stabilization Reading (S.U.)*
<input type="checkbox"/> 4.00 Expiration Date: _____	_____
<input type="checkbox"/> 7.00 Expiration Date: _____	_____
<input type="checkbox"/> 10.00 Expiration Date: _____	_____
*Reading must be within +/- 0.50 S.U. for valid calibration. If unachievable, explain:	

Processing MSGP Stormwater Samples	No: EPC-CP-QP-2106	Page 18 of 19
	Revision: 1	Effective Date: 11/28/2022

Attachment 2: Water Sample Collection and Processing Log/Field Chain of Custody Example
(Page 1 of 1)

Los Alamos National Laboratory

WATER SAMPLE COLLECTION AND PROCESSING LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 11743 EVENT NAME: MSGP 2018
SAMPLE ID: MSGP-18-153015 WORK ORDER: MSGP-12345
COLLECTION DATE/TIME: 07/01/18 16:03 RETRIEVAL DATE/TIME: 07/03/18 09:25
LOCATION ID: MSGP04301 SAMPLER TYPE: APS-R
LOCATION TYPE: WCS SAMPLE PREP: UF
LOCATION SYNONYM(S): N/A FIELD QC TYPE: REG
FIELD MATRIX: WT SAMPLE USAGE: COMP

PRIORITY	ORDER	CONTAINER	#	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS	PROCESSING COMMENTS
<u>N/A</u>	MSGP-TSS	<u>250</u> 500 ML POLY <u>07/01/18</u>	1	ICE	<u>X</u>	<u>N/A</u>	<u>N/A</u>

SAMPLE COMMENTS: N/A

FIELD PARAMETERS:

Sample Time N/A HH:MM pH 6.2 SU Visual Inspection Y SU
Visual Inspection WO# MSGP-67890

COLLECTED BY (Printed Name) <u>Jane Doe</u> (Signature) <u>[Signature]</u>	Date/Time <u>07/03/18</u> <u>09:25</u>		
RELINQUISHED BY (Printed Name) <u>Jane Doe</u> (Signature) <u>[Signature]</u>	Date/Time <u>07/03/18</u> <u>10:05</u>	RECEIVED BY (Printed Name) <u>John Smith</u> (Signature) <u>[Signature]</u>	Date/Time <u>07/03/18</u> <u>10:05</u>
PROCESSED BY (Printed Name) <u>John Smith</u> (Signature) <u>[Signature]</u>	Date/Time <u>07/03/18</u> <u>13:00</u>		
RELINQUISHED BY (Printed Name) <u>John Smith</u> (Signature) <u>[Signature]</u>	Date/Time <u>07/04/18</u> <u>08:35</u>	RECEIVED BY (Printed Name) <u>See CoC #</u> (Signature) <u>2017-1326</u>	Date/Time
RELINQUISHED BY (Printed Name) <u>N/A</u> (Signature)	Date/Time	RECEIVED BY (Printed Name) <u>N/A</u> (Signature)	Date/Time

Report Date: 08/01/2018

Processing MSGP Stormwater Samples	No: EPC-CP-QP-2106	Page 19 of 19
	Revision: 1	Effective Date: 11/28/2022


Attachment 3: Sample Container Labels Example

(Page 1 of 1)

Los Alamos National Laboratory	
Sample ID: MSGP-17-131786	
Container: 500 ML POLY	1 of 1
Preservative: HNO3 ICE	
Analysis: NPDES-AI-Total Recoverable	
Date/	Time:

Los Alamos National Laboratory	
Sample ID: MSGP-17-131787	
Container: 500 ML POLY	1 of 1
Preservative: HNO3 ICE	
Analysis: NPDES-AI-Total Recoverable	
Date/	Time:

**ATTACHMENT 21: EPC-DO-QP-0903, ENVIRONMENTAL REPORTING REQUIREMENTS FOR RELEASES
OR EVENTS**

EPC-CP-QP-0903	Revision: 1	
Effective Date: 03/09/2022	Next Review Date: 03/09/2025	

Environment, Safety, Health, Quality, Safeguards, and Security Directorate
Environmental Protection and Compliance – Compliance Programs Group
Quality Procedure

Environmental Reporting Requirements for Releases or Events

Hazard Grading:	<input checked="" type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> High/Complex
Usage Level:	<input checked="" type="checkbox"/> Reference	<input type="checkbox"/> UET	<input type="checkbox"/> Mixed: UET Sections: _____
Status:	<input type="checkbox"/> New	<input checked="" type="checkbox"/> Major Revision	<input type="checkbox"/> Minor Revision
	<input type="checkbox"/> Review w/No Changes	<input type="checkbox"/> Other: _____	
Safety Basis:	<input checked="" type="checkbox"/> N/A	<input type="checkbox"/> USQ	<input type="checkbox"/> USI Number: _____

Document Author/Subject Matter Expert:

Name:	Organization:	Signature:	Date:
Steve Pearson	EPC-CP	Signature on File	02-28-2022

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Environmental Reporting Requirements for Releases or Events	EPC-CP-QP-0903	Page 2 of 27
	Revision: 1	Effective Date: 03/09/2022

REVISION HISTORY

Document Number and Revision <i>[Include revision number, beginning with Revision 0]</i>	Effective Date <i>[Document Control Coordinator inserts effective date]</i>	Description of Changes <i>[List specific changes made since the previous revision]</i>
0	02/09	New document
1	4/10	Revision and update
ENV-DO-QP-101 R2	6/12	Biennial Review/Revision, new template implemented.
EPC-DO-QP-101 R3	08/07/17	Revision and update. This document replaces ENV-DO-QP-101 R2. New document number reflects organizational name change.
EPC-CP-QP-0903 R0	08/10/2021	This document replaces EPC-DO-QP-101, R3. This update includes updating appropriate sections to reflect regulations and organizational changes. Implements new EPC-CP template and document number.
EPC-CP-QP-0903 R1	03/09/2022	This update includes clarification regarding 20.6.2.1203 NMAC reporting and conditions necessary for reporting of unplanned releases of potable water and steam condensate (Section 4.5.3). This revision supersedes EPC-CP-QP-0903 R0.

Environmental Reporting Requirements for Releases or Events	EPC-CP-QP-0903	Page 3 of 27
	Revision: 1	Effective Date: 03/09/2022

Table of Contents

Revision History	2
1.0 Introduction	4
1.1 Purpose	4
1.2 Scope	4
1.3 Applicability	4
2.0 Precautions and Limitations	4
3.0 Prerequisite Actions.....	4
3.1 Planning and Coordination.....	4
3.2 Collaboration with other Subject Matter Experts (SMEs).....	5
4.0 Process Description	5
4.1 Reporting Releases to Pueblo Environment Departments	5
4.2 Responsibility of On-Call Representatives	6
4.3 Follow-up Reporting.....	6
4.4 Summary of Policy Reporting.....	7
4.5 Using this procedure	7
4.5.1 Determining if a Release is Reportable under RCRA.....	8
4.5.2 Determining if a Release is Reportable under TSCA	8
4.5.3 Determining if a Release is reportable under the CWA NMWQA, and NMWQCC.....	9
4.5.3.1 Reporting Requirements for Petroleum Storage Tanks	11
4.5.3.2 Reporting Requirements under the NPDES Pesticide General Permit.....	12
4.5.4 Determining if a Release is Reportable under CERCLA or EPCRA	13
4.5.4.1 Regulatory Classification of the Released Material	14
4.5.5 Determining Release Impacts to Biological or Cultural Resources.....	15
4.5.6 Reporting a Release or Event.....	16
4.5.7 Steps to Notify LANL Management, the Laboratory Tribal Liaison, and Department of Energy Los Alamos Field Office (NA-LA).....	17
5.0 Training	18
6.0 Records	18
7.0 Definitions and Acronyms.....	19
7.1 Definitions	19
7.2 Acronyms.....	20
8.0 References	22
9.0 Appendices	23
10.0 Attachments	23
Attachment 1: Emergency Notification Requirements for RCRA	24
Attachment 2: Summary of Emergency Release or Event Reporting Requirements	25

Environmental Reporting Requirements for Releases or Events	EPC-CP-QP-0903	Page 4 of 27
	Revision: 1	Effective Date: 03/09/2022

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

Environmental Reporting Requirements for Releases or Events	EPC-CP-QP-0903	Page 5 of 27
	Revision: 1	Effective Date: 03/09/2022

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.

Environmental Reporting Requirements for Releases or Events	EPC-CP-QP-0903	Page 6 of 27
	Revision: 1	Effective Date: 03/09/2022

4.2 Responsibility of On-Call Representatives

The EPC on-call representative is the party primarily responsible for:

- 1) Responding to any notifications received on the Spills/Unplanned Release pager.
- 2) Determining if the incident will require immediate notification to external agencies in accordance with LANL, state, and federal regulatory reporting requirements.
- 3) Notifying EPC Division management of immediate reporting requirements.
- 4) In the event that the release is a non-emergency and Pueblo lands are impacted, notification to the impacted Pueblo Environment Department will be coordinated through the Laboratory's Tribal Liaison (505-629-2198) who will contact and notify the Department of Energy (DOE) Los Alamos Field Office (NA-LA) Intergovernmental Specialist to notify the Pueblos and the Office of Environmental Management if necessary.

The EPC on-call representative is not responsible for the following and EOC will make these determinations:

- 1) If the Resource Conservation Recovery Act (RCRA) Contingency Plan must be implemented.
- 2) If a shock-sensitive material, leaking, or compromised gas cylinder constitutes an emergency.
- 3) If the release is associated with an emergency where activation of the EOC is necessary, and if so, contacting the affected Pueblos in accordance with [PD1200](#), *Emergency Management Program*.

However, in order to ensure that the appropriate expertise is available for the affected media, the EPC on-call representative may immediately confer with an SME of the EPC group that has programmatic responsibility. If an SME from the responsible group is able to respond to the event, the remaining steps in this procedure may be passed to that person. See the link for EPC Contacts: [Environmental Protection and Waste Management Contacts list](#).

Note: The Pueblo Environmental Department(s) notification process will be implemented in parallel with regulatory- or permit-driven reporting. In the event of a conflict between the two reporting needs, this process is second priority.

4.3 Follow-up Reporting

This procedure describes the initial external notifications (within the first 24 hours) to regulatory agencies. After completion of the steps in this procedure, the EPC group or team specifically responsible for compliance with the relevant regulations will complete the required notifications and reports, as applicable under the appropriate regulations, according to established procedures.

Environmental Reporting Requirements for Releases or Events	EPC-CP-QP-0903	Page 7 of 27
	Revision: 1	Effective Date: 03/09/2022

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

Environmental Reporting Requirements for Releases or Events	EPC-CP-QP-0903	Page 8 of 27
	Revision: 1	Effective Date: 03/09/2022

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.

Environmental Reporting Requirements for Releases or Events	EPC-CP-QP-0903	Page 9 of 27
	Revision: 1	Effective Date: 03/09/2022

There are six items containing PCBs that are out of service at the Chemistry and Metallurgy Research (CMR) Building. They are scheduled for removal within the next year or so. All other known PCB equipment at the Laboratory have been taken out-of-service and disposed of in accordance with TSCA regulations.

If a release is reportable under TSCA, continue through the next sections to determine if the release/event is reportable under other rules and proceed to *Reporting a Release or Event* and determine if additional reporting is necessary.

If the spill is ...	Then...
equal to or over 1 pound by weight of PCBs (TSCA) or greater than 270 gallons of untested mineral oil suspected of containing PCBs	Report to the National Response Center (1-800-242-8802) immediately (within 15 minutes of discovery). Additionally, contact EPA Region 6 (Office of Prevention, Pesticides and Toxic Substances Branch) through EPA's 24-hour spill response number 866-372-7745 as soon as possible after discovery, but no later than 24-hours after discovery.

4.5.3 Determining if a Release is reportable under the CWA NMWQA, and NMWQCC

20.6.2.1203 New Mexico Administrative Code (NMAC) Reporting

The NM Water Quality Act (NMWQA) does not use Reportable Quantities (as described in the next section). Instead, the NM Water Quality Control Commission (NMWQCC) regulations state, *"With respect to any discharge from any facility of oil or other water contaminant, in such quantity as may with reasonable probability injure or be detrimental to human health, animal or plant life, or property, or unreasonably interfere with the public welfare or the use of property, notifications (to the New Mexico Environment Department (NMED)) and corrective actions are required."*

The above rule requires the use of professional judgment to determine the magnitude and extent of the release and ultimately if external reporting is required. While no quantifiable metric is available to assist in making this determination, in general if any of the following three conditions are met external reporting will be completed:

- 1) more than 10-gallons of oil or other liquid is released,
- 2) if any volume of oil or other liquid reaches a watercourse, or
- 3) if it adversely impacts a Solid Waste Management Unit (SWMU) or Area of Concern (AOC), for example, requiring excavation or causing erosion.

The EPC on-call representative or SME has the authority and responsibility to make this determination.

Additionally, unplanned releases of potable water or steam condensate require reporting pursuant to [20.6.2.1203 NMAC](#) as directed in the LANL Liquid Discharge Reporting Guidance (Decision Tree), dated March 10, 2009, if:

Environmental Reporting Requirements for Releases or Events	EPC-CP-QP-0903	Page 10 of 27
	Revision: 1	Effective Date: 03/09/2022

- 1) the release reaches a watercourse,
- 2) it adversely impacts a SWMU or AOC, or
- 3) a volume greater than 5,000 gallons is discharged (per location per day).

Consult with the Triad LLC, EPC-WMP Consent Order Site coordinator to confirm the location and to determine if there are potential impacts to SWMUs or AOCs from any releases that may occur.

Groundwater Discharge Permit Reporting

The Laboratory has three current or draft Groundwater Discharge Permits (DPs) that include notification and reporting requirements in the event of an unpermitted discharge. Spills of **any volume** associated with any of the Groundwater DPs require reporting to NMED pursuant to [20.6.2.1203 NMAC](#).

1) DP-857: Sanitary Waste Water System (SWWS) Plant, Sanitary Effluent Reclamation Facility (SERF), and Sigma Mesa Evaporation Basins. Permit Condition No. 44.

The unauthorized release of untreated and treated sanitary wastewater, reuse wastewater, blended wastewater, and reject wastewater would be subject to reporting under Condition No. 44.

2) DP-1589: Septic Tank/Disposal Systems. Permit Condition No. 23.

The unauthorized release of untreated wastewater, septage, treated wastewater surfacing from failing disposal systems (leach fields), and treated wastewater surfacing from overflowing septic tanks would be subject to reporting under Condition No. 23.

3) DP 1132: Radioactive Liquid Waste Treatment Facility (RLWTF). Permit Condition No. 38.

In the event of a release unauthorized in this Discharge Permit, the Permittees shall take measures to mitigate damage from the unauthorized discharge and initiate the notification and corrective actions required in [20.6.2.1203 NMAC](#) under Condition No. 38.

Clean Water Act Reporting

Oil discharges (film/sheen/discoloration) to water in stream channels must also be reported to the National Response Center (NRC) immediately (within 15 minutes of discovery) pursuant to [40 CFR 110.6, Discharge of Oil](#).

National Pollutant Discharge Elimination System (NPDES) Outfall Reporting

The EPC-DO on-call SME must provide notification to the NPDES Outfall Permit Program Lead and/or the EPC-CP Water Quality Team Leader in the event of a leak, unplanned release, overflow, or bypass of treatment from an NPDES permitted outfall and/or the sources upon discovery in order to meet applicable reporting requirements (i.e., 24-hr and 5-day written). Outfall sources include, but are not limited to, the following:

- 1) Sanitary Waste Water System (SWWS) equipment, tanks, lift stations, septic tanks, and piping.

Environmental Reporting Requirements for Releases or Events	EPC-CP-QP-0903	Page 11 of 27
	Revision: 1	Effective Date: 03/09/2022

- 2) Sanitary Effluent Reclamation Facility (SERF) equipment, tanks, lift stations, and piping.
- 3) Radioactive Liquid Waste Treatment Facility (RLWTF) equipment, tanks, lift stations, and piping.
- 4) High Explosives Waste Treatment Facility (HEWTF) equipment, tanks, and piping.
- 5) Cooling towers.
- 6) Storage tanks (i.e., influent, effluent, reuse tank).
- 7) Other water treatment equipment and piping.

4.5.3.1 Reporting Requirements for Petroleum Storage Tanks

As defined in [20.5.118 NMAC](#), *Environmental Protection, Petroleum Storage Tanks - Reporting Investigations of Suspected and Confirmed Releases*, the NMED requires verbal reporting within 24-hours of a petroleum product release from regulated tanks to the NMED Petroleum Storage Tank Bureau (PSTB) when there is:

- 1) any suspected or confirmed release of regulated substances
- 2) evidence of release of regulated substances
- 3) unusual operational conditions (that would cause concern about a release)
- 4) monitoring results that show loss from the system

Regulated tanks include those with a capacity between 1,320 gallons and 55,000 gallons. Regulated substances for Aboveground Storage Tanks (AST) includes, but is not limited to, petroleum and petroleum-based substances comprised of a complex blend of hydrocarbons derived from crude oil through processes of separation, conversion, upgrading and finishing, such as motor fuels (including ethanol-based motor fuels), jet fuels, distillate fuel oils, residual fuel oils, lubricants, petroleum solvents, and used oils.

Notice of any suspected or confirmed release from a storage tank system needs to be completed within 24 hours. Contact the EPC-CP AST Program Leader and/or the EPC-CP Water Quality Team Leader prior to completing any external notifications. The PSTB can be reached at 505-476-4397 (Santa Fe PSTB District 2) during business hours and 505-827-9329 (NMED Emergency Spill Hotline) during non-business hours. The NRC must be contacted at (800) 424-8802 immediately if oil or a sheen of oil from a spill or release hits a watercourse. A written report describing the spill, release or suspected release and any investigation or follow-up action needs to be submitted to the PSTB within 7 days of the incident.

If a facility discharges greater than 1,000 gallons of oil in a single discharge or discharges more than 42-gallons of oil in each of two discharges, as described in 40 CFR 112.1(b) and occurring within any twelve month period, the facility shall submit a report to the EPA Regional Administrator within 60 days of the discharge per 40 CFR 112.4.

Environmental Reporting Requirements for Releases or Events	EPC-CP-QP-0903	Page 12 of 27
	Revision: 1	Effective Date: 03/09/2022

4.5.3.2 Reporting Requirements under the NPDES Pesticide General Permit

Adverse incidents require reporting to the EPA under the NPDES Pesticide General Permit (PGP). An adverse incident is defined as an unusual or unexpected incident resulting from pesticide applications that an operator has observed upon inspection or of which the operator otherwise becomes aware, in that:

- 1) There is evidence that a person or non-target organism has likely been exposed to a pesticide residue, and
- 2) The person or non-target organism suffered a toxic or adverse effect.

The phrase toxic or adverse effect includes effects that occur within Waters of the United States on non-target plants, fish, or wildlife that are unusual or unexpected (e.g., effects are to organisms not otherwise described on the pesticide product label or otherwise not expected to be present) as a result of exposure to a pesticide residue, and may include:

- [a] Distressed or dead juvenile and small fishes
- [b] Washed up or floating fish
- [c] Fish swimming abnormally or erratically
- [d] Fish lying lethargically at water surface or in shallow water
- [e] Fish that are listless or nonresponsive to disturbance
- [f] Stunting, wilting, or desiccation of non-target submerged or emergent aquatic plants
- [g] Other dead or visibly distressed non-target aquatic organisms (amphibians, turtles, invertebrates, etc.)

The phrase toxic or adverse effects also includes any adverse effects to humans (e.g., skin rashes) or domesticated animals that occur either from direct contact with or as a secondary effect from a discharge (e.g., sickness from consumption of plants or animals containing pesticides) to Waters of the United States that are temporally and spatially related to exposure to a pesticide residue (e.g., vomiting, lethargy).

If an operator observes or otherwise becomes aware of an adverse incident due to pesticide application, the operator must notify the EPA Incident Reporting contact within 24 hours of the operator becoming aware of the adverse incident. EPA Incident Reporting Contacts are listed at <https://www.epa.gov/npdes/pesticide-permitting>.

If an operator becomes aware of an adverse incident affecting a federally listed threatened or endangered species or its federally designated critical habitat, that may have resulted from a discharge from the operator's pesticide application, the operator must immediately (within 15 minutes of discovery) notify the U.S. Fish and Wildlife Service. This notification must be made by phone to the contact listed on the EPA's website (<https://www.epa.gov/npdes/pesticide-permitting>).

Environmental Reporting Requirements for Releases or Events	EPC-CP-QP-0903	Page 13 of 27
	Revision: 1	Effective Date: 03/09/2022

4.5.4 Determining if a Release is Reportable under CERCLA or EPCRA

Under CERCLA or EPCRA, the RQ is the threshold that requires immediate regulatory notification of a release. An RQ is based on the quantity of chemical released within any 24-hour period. Information on the RQ program as implemented by the DOE is on the web at:

<https://www.energy.gov/ehss/services/environment/environmental-policy-and-assistance/reportable-quantity-calculator>

- 1) In the event of a release, determine the quantity released in pounds or kilograms for hazardous substances, or in curies for a release of radioactive material.
- 2) Compare the released value with the RQ threshold.
 - [a] CERCLA RQs of hazardous substances are listed in [40 CFR 302.4](#), *Designation of Hazardous Substances*. Hazardous substances and their RQs are listed in Table 302.4, and radionuclides are listed in [40 CFR 302.4, Appendix B](#). The DOE has also approved use of an on-line "Reportable Quantity Calculator" that can be used to assist in this determination. The RQ calculator is located at: <https://rqcalculator.projectenhancement.com/>
 - [b] If a hazardous material is not listed in the statute, the RQ has been set by Congress to be 100 pounds. For radionuclides, the RQ is 1 curie for radionuclides not otherwise listed.
 - [c] For mixtures of hazardous materials and/or radionuclides, or when the hazardous material table and radionuclide table are in conflict, the lowest RQ shall apply.
 - [d] If an RQ is met or exceeded, an immediate (within 15 minutes of discovery) notification must be made to the NRC (1-800-424-8802) pursuant to [40 CFR 302.6](#), *Notification of Requirements*.
 - [e] If a release of an airborne radionuclide exceeds an RQ listed in Appendix B to [40 CFR 302.4](#), verbally notify the EPA Region 6 Health Physicist after the NRC notifications have been completed. The EPA Region 6 Health Physicist can be reached at:
Office-(214) 665-8541; Mobile-(214) 755-1530; Home-(972) 937-1900.

The team leader for Radioactive Air Emissions Management (RAEM) in EPC-CP can provide assistance with determining RQs and releases for radioactive material releases and with notifying EPA Region 6.
 - [f] If an RQ is not exceeded, notify the appropriate media SME so they can perform any required follow-up notification and documentation with the appropriate regulatory agency.
- 3) Additional notifications under EPCRA must be made if a release of a hazardous or extremely hazardous substance listed in [40 CFR 355](#) Appendices A and B occurs.

Environmental Reporting Requirements for Releases or Events	EPC-CP-QP-0903	Page 14 of 27
	Revision: 1	Effective Date: 03/09/2022

- [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.

Environmental Reporting Requirements for Releases or Events	EPC-CP-QP-0903	Page 15 of 27
	Revision: 1	Effective Date: 03/09/2022

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.

Environmental Reporting Requirements for Releases or Events	EPC-CP-QP-0903	Page 16 of 27
	Revision: 1	Effective Date: 03/09/2022

Additionally, if there is a release of contaminants to a wetland, or impacts to the beneficial values of a wetland, the EPC on-call representative will coordinate with other EPC SMEs for applicable federal and state notifications and required actions as outlined in Section 4.5.3.

Contact a Biological Resources SME through the EPC-ES group office at 505-665-8855 and epc_biologists@lanl.gov as parallel contact information for Biological Resources.

Contact a Cultural Resources SME through the EPC-ES group office at 505-665-8855 or use cultural@lanl.gov.

4.5.6 Reporting a Release or Event

If a release or event is reportable (as determined by one or more of the previous sections), the Laboratory is required to meet certain reporting requirements. The emergency notification requirements must be followed upon determination that a release or event is reportable.

For informational purposes, a Summary of Emergency Release or Event Reporting Requirements is provided in Attachment 2. This document summarizes the primary statutes and the associated reporting requirements.

Maintain a notebook to record pertinent information about the release and to document the actions taken (see Section 6.0 *Records*).

Any release to the environment that has been determined to be reportable by the EPC on-call representative or SME shall be reported through the LANL management chain in accordance with [PD1200](#), *Emergency Management Program*, and [P322-4](#), *Performance Improvement from Abnormal Events*.

Triad management and DOE shall be notified if a release notification to state or federal regulatory agencies is required. Management approval is not required prior to completing environmental notifications to the regulatory agencies in order to assure that the deadline for reporting is not exceeded.

Perform the following steps immediately after establishing that reporting is required:

- 1) Compile release information including:
 - a) The source, cause, type and quantity of the release;
 - b) Time and duration of the release;
 - c) Extent of any protective and corrective actions taken;
 - d) Name, address, and telephone number of the person to contact for further information
 - e) Whether the substance is an HS or EHS
 - f) Associated health risks and medical attention necessary for exposed individuals;
 - g) If available, information concerning the release of any contaminants, hazardous and/or mixed waste that may endanger public or private drinking water supplies;

Environmental Reporting Requirements for Releases or Events	EPC-CP-QP-0903	Page 17 of 27
	Revision: 1	Effective Date: 03/09/2022

- h) Assessment health risks and medical attention necessary for exposed individuals;
 - i) If available, estimated quantity and disposition of recovered material that resulted from the incident;
 - j) Precautions to take due to the release/event, including, in the case of fire, those associated with special hazards due to the release of contaminants, hazardous and/or mixed waste;
 - k) Any other information that may help emergency personnel responding to the incident; and
 - l) Environmental media impacted from the release,
- 2) Notify LANL management, the Laboratory Tribal Liaison, and the respective FOD.
- NOTE:** Management approval is not required prior to completing environmental notifications to the regulatory agencies in order to assure that the deadline for reporting is not exceeded.
- 3) Provide notification to the regulatory agency as required by the applicable regulation(s) detailed in Sections 4.5.1 – 4.5.4. Reference Attachment 2 for a summary of the applicable reporting requirements.
- 4) Notify programmatic SMEs that may be impacted or required to complete follow-up reporting.

4.5.7 Steps to Notify LANL Management, the Laboratory Tribal Liaison, and Department of Energy Los Alamos Field Office (NA-LA)

The EPC on-call representative will complete the following steps to provide notification to LANL Management and the Laboratory Tribal Liaison.

- 1) Determine that a release to the environment is reportable to state or federal entities as required under applicable regulations.
- NOTE:** Occurrence Reporting and Procession System (ORPS) reporting is a FOD and Responsible Associate Director (RAD) responsibility and commonly they will seek advisement from EPC SMEs.
- 2) Provide notification to the EPC-CP Water Quality Team Leader, the EPC-CP Group Leader, and the EPC-DO Division Leader of the release and the required external notifications.
 - 3) Provide notification to the Laboratory Tribal Liaison (if release/event impacts or may potentially impact Pueblo lands) of the release and the required external notifications. Notification to the impacted Pueblo Environment Department will be coordinated through the Laboratory's Tribal Liaison (505-629-2198) who will contact and notify the Department of Energy (DOE) Los Alamos Field Office (NA-LA) Intergovernmental Specialist to notify the Pueblos pursuant to protocols.

Environmental Reporting Requirements for Releases or Events	EPC-CP-QP-0903	Page 18 of 27
	Revision: 1	Effective Date: 03/09/2022

- 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

Environmental Reporting Requirements for Releases or Events	EPC-CP-QP-0903	Page 19 of 27
	Revision: 1	Effective Date: 03/09/2022

- Documentation of any verbal notifications
- Samples taken
- Copies of any written notifications generated
- Documentation of any analytical results and quality assurance of results
- Contingency and/or emergency plan documentation
- Documentation of any RCRA permit non-compliance that threatens human health and environment
- Documentation of treatment of any RCRA unstable chemicals, leaking, or compromised gas cylinders

As a result of implementing this procedure, below are the records generated that are identified by title and type.

Record Title	QA Record	Non-QA Record
Copies of any written notifications generated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Documentation of any analytical results, and quality assurance of results	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Contingency and / or emergency plan documentation	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Documentation of any RCRA permit non-compliance that threatens human health and environment	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Documentation of treatment of any RCRA unstable chemicals, leaking or compromised gas cylinders	<input checked="" type="checkbox"/>	<input type="checkbox"/>

7.0 DEFINITIONS AND ACRONYMS

7.1 Definitions

Continuous Release – A release is continuous if it “occurs without interruption or abatement or if it is routine, anticipated, intermittent, and incidental to normal operations or treatment processes.” The release must also be “stable in quantity and rate,” which means that it must be predictable and regular in the amount and rate of emission. The response procedures for continuous releases are not covered by this document. See guidance in Reporting Continuous Releases of Hazardous and Extremely Hazardous Substances under CERCLA and EPCRA.

Environment – Includes "water, air, land, and the interrelationship that exists among and between water, air, land, and all living things." ([40 CFR 355.20](#)).

Extremely Hazardous Substance (EHS) – EPCRA establishes emergency reporting requirements for extremely hazardous substances in [40 CFR 355](#), Appendix A. All of these substances are also CWA and CERCLA “hazardous” substances.

Environmental Reporting Requirements for Releases or Events	EPC-CP-QP-0903	Page 20 of 27
	Revision: 1	Effective Date: 03/09/2022

Hazardous Substance (HS) – These substances are summarized in [40 CFR Part 302](#). As used in this context, this refers to:

- 1) any elements, compounds, mixtures, solutions, or substances specially designated by EPA under Section 311 of the Clean Water Act (CWA) (40 CFR 116.4);
- 2) any toxic pollutants listed under Section 307(a) of the CWA;
- 3) any hazardous substances regulated under Section 311 (b)(2)(A) of the CWA;
- 4) any listed or characteristic RCRA hazardous waste (40 CFR 261),
- 5) any hazardous air pollutants listed under Section 112 of the Clean Air Act (CAA); or
- 6) any imminently hazardous chemical substances or mixtures regulated under Section 7 of the Toxic Substances Control Act (TSCA).

Release – Any unpermitted spilling, leaking, pumping, pouring, emitting, emptying, discharging, injecting, escaping, leaching, dumping, or disposing of contaminants into the environment, excluding:

- 1) emissions from the engine exhaust of any vehicle,
- 2) certain releases of source, byproduct, or special nuclear material from a nuclear incident, or
- 3) normal application of fertilizer.

7.2 Acronyms

AOC	Area of Concern
AST	Aboveground Storage Tank
CAA	Clean Air Act
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CMR	Chemistry and Metallurgy Research
CFR	Code of Federal Regulations
CWA	Clean Water Act
DDOPS	Deputy Directorate for Operations
DOE	Depart of Energy
DOE-LAFO	Department of Energy – Los Alamos Field Office
EHS	Extremely Hazardous Substance
EM	Office of Environmental Management
EOC	Emergency Operations Center
EPA	Environmental Protection Agency
EPC-CP	Environmental Protection and Compliance – Compliance Programs Group
EPC-DO	Environmental Protection and Compliance Division
EPC-ES	Environmental Protection and Compliance – Environmental Stewardship Group

Environmental Reporting Requirements for Releases or Events	EPC-CP-QP-0903	Page 21 of 27
	Revision: 1	Effective Date: 03/09/2022

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

Environmental Reporting Requirements for Releases or Events	EPC-CP-QP-0903	Page 22 of 27
	Revision: 1	Effective Date: 03/09/2022

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

Environmental Reporting Requirements for Releases or Events	EPC-CP-QP-0903	Page 23 of 27
	Revision: 1	Effective Date: 03/09/2022

New Mexico Environment Department Groundwater Discharge Permit DP-1589

New Mexico Administrative Code (NMAC) 20.5.7

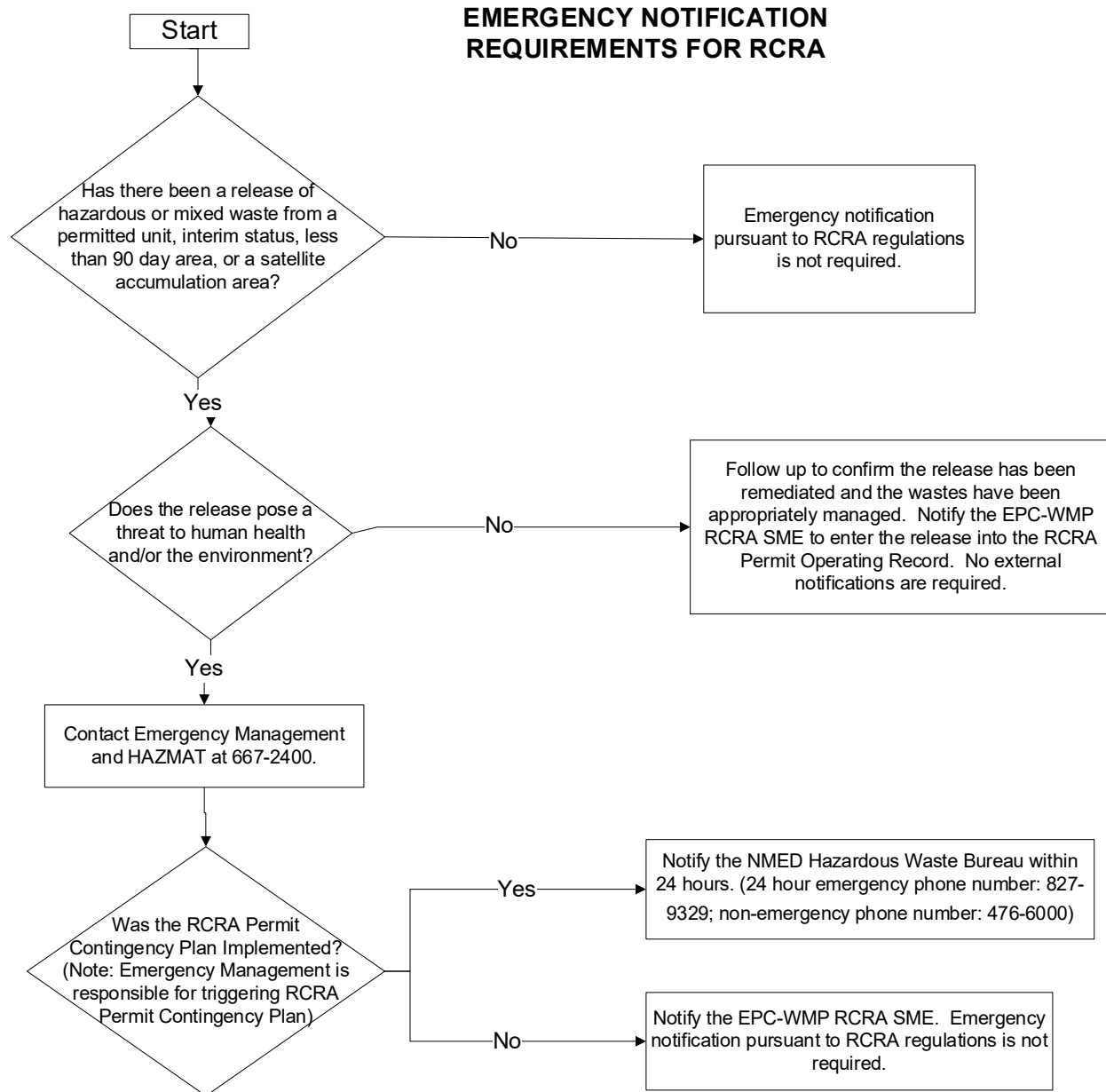
9.0 APPENDICES

10.0 ATTACHMENTS

Attachment 1: *Emergency Notification Requirements for RCRA*

Attachment 2: *Summary of Emergency Release or Event Reporting Requirements*

Attachment 1: Emergency Notification Requirements for RCRA



Environmental Reporting Requirements for Releases or Events	EPC-CP-QP-0903	Page 25 of 27
	Revision: 1	Effective Date: 03/09/2022

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)


Environmental Reporting Requirements for Releases or Events	EPC-CP-QP-0903	Page 26 of 27
	Revision: 1	Effective Date: 03/09/2022

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.

Environmental Reporting Requirements for Releases or Events	EPC-CP-QP-0903	Page 27 of 27
	Revision: 1	Effective Date: 03/09/2022

STATUTE	REGULATIONS	INCIDENT	Immediate Reporting Requirements	Follow Up Reporting Requirements
Resource Conservation and Recovery Act (RCRA)	40 CFR 262.34, 263.30, 264.51, 264.56 & .196, 265.51, .56 & .196, 270.14, & .30, 273.17, .37 & .54, 279.43 & .53, 280.50, .52, .53, .60, & .61	Release of hazardous or mixed waste from a permitted unit, interim status, less than 90 day area or a satellite accumulation area which the RCRA Permit Contingency Plan was triggered.	Notify NMED Hazardous Waste Bureau within 24 hours (24 hour emergency phone number: 827-9329; Non-emergency phone number: 476-6000) See Attachment 1 for additional details.	Submit written report to NMED HWB within 5 days.
Clean Air Act/ Radionuclide NESHAP	40 CFR 61, Subpart H	Airborne release of radioactive material in excess of an RQ.	Notify the EPA Region 6 Health Physicist (Office- (214) 665-8541; Mobile- (214) 755-1530; Home – (972) 937-1900) immediately after providing notification to the NRC.	Follow-up will be coordinated by the EPC-CP RAEM team.
New Mexico Air Quality Regulation	20 NMAC 2.7	Incidents in which excess emissions exceed an air quality regulatory limit or air permit emission limit.	File initial report to NMED AQB no later than the end of the next business day after the exceedance was discovered. (Submitted on-line via NMED AQB Secure Extranet Portal (SEP)).	Submit final written report to NMED AQB within 10 business days.
Toxic Substance Control Act (TSCA)	40 CFR 761.120, 761.125	Over 1 pound by weight of PCBs (TSCA) or greater than 270 gallons of untested mineral oil suspected of containing PCBs.	Contact the National Response Center (1-800-242-8802) and the EPA Region 6 Office of Prevention, Pesticides, and Toxic Substances Branch (1-866-372-7745) as soon as	Within 24 hours. Follow-up: as required by agency.

ATTACHMENT 22: EPC-CP-QP-1007, SPILL INVESTIGATIONS

EPC-CP-QP-1007	Revision: 0	
Effective Date: 06/03/2020	Next Review Date: 06/03/2023	

Environment, Safety, Health, Quality, Safeguards, and Security Directorate

Environment Protection and Compliance – Compliance Programs Group

Quality Procedure

Spill Investigations

Hazard Grading: ☒ Low ☐ Moderate ☐ High/Complex

Usage Level: ☒ Reference ☐ UET ☐ Mixed: UET Sections: _____

Status: ☐ New ☒ Major Revision ☐ Minor Revision

☐ Review w/No Changes ☐ Other: _____

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Spill Investigations	No: EPC-CP-QP-1007	Page 2 of 20
	Revision: 0	Effective Date: 06/03/2020

REVISION HISTORY

Document Number and Revision <i>[Include revision number, beginning with Revision 0]</i>	Effective Date <i>[Document Control Coordinator inserts effective date]</i>	Description of Changes <i>[List specific changes made since the previous revision]</i>
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.

Spill Investigations	No: EPC-CP-QP-1007	Page 3 of 20
	Revision: 0	Effective Date: 06/03/2020

Table of Contents

Revision History	2
1.0 Introduction	4
1.1 Purpose	4
1.2 Scope	4
1.3 Applicability	4
1.4 Authority	4
2.0 Precautions and Limitations	4
2.1 Precautions.....	4
2.2 Limitations	5
3.0 Prerequisite Actions.....	5
3.1 Planning and Coordination.....	5
3.2 Performance Documents	6
3.3 Special Tools, Equipment, Parts, and Supplies.....	6
4.0 Performing Spill Investigations	6
4.1 Notification of a Spill or Unplanned Release.....	6
4.2 Emergency Spill/Unplanned Release - Responding with EMD-EO	8
4.2 Non-Emergency Spill or Unplanned Release.....	9
4.3 Reporting Spills and/or Unplanned Releases	11
4.3.1 Immediate Notification	11
4.3.2 Non-Reportable Spills/Unplanned Releases	12
4.3.3 Reportable Spills/Unplanned Releases	12
5.0 Training	13
6.0 Records	13
7.0 Definitions and Acronyms.....	14
7.1 Definitions	14
7.2 Acronyms.....	14
8.0 References	15
9.0 Attachments	15
Attachment 1: Release Notification Phone List	16
Attachment 2: Unplanned Release Report, EPC-CP-QP-1007-Form 1.....	17
Attachment 3: 7/15 Day Release Report, EPC-CP-QP-1007-Form 2.....	18

Spill Investigations	No: EPC-CP-QP-1007	Page 4 of 20
	Revision: 0	Effective Date: 06/03/2020

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.

Spill Investigations	No: EPC-CP-QP-1007	Page 5 of 20
	Revision: 0	Effective Date: 06/03/2020

- Work may be paused or discontinued due to conditions that make a location dangerous for worker safety or prevent personnel from safely accessing a site (i.e., flash floods, lightning, wildfires, hail, icy roads, deep snow, extreme temperatures, or hazardous LANL Operations such as firing shots, burns, or security).

2.2 Limitations

Limitations are defined boundaries (i.e., training, hold points) that are NOT to be exceeded while performing the activities defined in this procedure. The following limitations are applicable to performing work using this technical procedure:

- Perform field activities in accordance with EPC-DO-QP-100, General Field Safety, and/or be escorted by Emergency Management Division – Emergency Operations Group (EMD-EO) or site personnel at all times.
- Spills or unplanned releases that occur on Department of Energy property due to activities performed by an organization not associated with Triad National Security, LLC (e.g., Los Alamos County, Newport News Nuclear BWXT Los Alamos (N3B), etc.) are the responsibility of that organization. The respective organization is responsible for site remediation, completion of corrective actions, and fulfillment any external reporting requirements.
- Some spills or unplanned releases have 15-minute and 24-hour notification requirements. Personnel using this procedure must be familiar with the reporting requirements of [EPC-CP-QP-0903, Environmental Reporting Requirements for Releases](#).

3.0 PREREQUISITE ACTIONS

3.1 Planning and Coordination

The response to spills and/or unplanned releases requires frequent and unscheduled site visits to any area of the Laboratory. Certain facilities and Laboratory locations require additional training and have specific access requirements that must be followed. Specific activities may include one or more of the following:

- Site-Specific Training (e.g., burn grounds).
- Coordination with Access Control and/or Security for escort, keys, safety (e.g., explosives areas, burn grounds, between security fences).
- Security Clearance (i.e., TA-3-66, TA-55, TA-16).

Site access for spill/unplanned release response will require that the Spill Investigator maintain multiple site-specific training requirements. It will also require that the Spill Investigator coordinate with the Emergency Operations Center (EOC), designated FOD representative, and/or Deployed Environmental Professional (DEP).

Spill Investigations	No: EPC-CP-QP-1007	Page 6 of 20
	Revision: 0	Effective Date: 06/03/2020

3.2 Performance Documents

The following documents are required to perform this procedure:

- EPC-CP-QP-1007 Form 1, Unplanned Release Report.
- EPC-CP-QP-1007 Form 2, 7/15 Day Release Report.
- [EPC-CP-QP-0903, Environmental Reporting Requirements for Releases.](#)

3.3 Special Tools, Equipment, Parts, and Supplies

Ensure the following are available for spill investigations and field visits:

- Personal protective equipment (PPE) as required by each specific site location (e.g., hardhat, safety vest, safety glasses, safety shoes, etc.)
- Cell phone (only government cell phones are allowed in secure areas.) See <https://int.lanl.gov/policy/documents/P217.pdf> for requirements for using portable electronic devices on Laboratory property.
- EPC-CP Spills Pager – ***Note:** Spills Pager can be configured to forward notifications to a government cell phone and email address.
- External dosimeter (as required by site or facility).
- Field Logbook (maintained to record pertinent information about the spill, i.e., time and date of release, location and source of release, type of material released, quantity of material released, impacted media, time release was stopped, any immediate mitigation actions taken to contain or control the release, time, date and description of notifications, etc.).
- Physical or electronic maps (e.g., utility line locations, Solid Waste Management Unit (SWMU) / Area of Concern (AOC) boundaries, land ownership boundaries).

4.0 PERFORMING SPILL INVESTIGATIONS

4.1 Notification of a Spill or Unplanned Release

The EPC-CP personnel that conduct spill investigations ensure the immediate mitigation of spills and timely notification to appropriate regulatory organizations in the event of a spill or unplanned discharge that has or may adversely affect the environment. Spills/unplanned releases are typically reported by a designated FOD representative (i.e., operations, maintenance) or DEP. If the spill/unplanned release is an emergency (i.e., unknown chemical, toxic chemical, flammable chemical, large volume), it will be reported to the EOC at 667-2400 and the EOC will contact the spill investigator using the EPC Spill pager. If the spill/unplanned release is not an emergency, (potable water, small volume, non-toxic), it will be reported via the EPC Spill pager (664-7722) or by phone call from the DEP or other designated FOD representative (i.e., operations, maintenance, security, health and safety). The EPC-CP Spill Program maintains an on-call schedule for after-hours support

Spill Investigations	No: EPC-CP-QP-1007	Page 7 of 20
	Revision: 0	Effective Date: 06/03/2020

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:

Spill Investigations	No: EPC-CP-QP-1007	Page 8 of 20
	Revision: 0	Effective Date: 06/03/2020

- [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.

Spill Investigations	No: EPC-CP-QP-1007	Page 9 of 20
	Revision: 0	Effective Date: 06/03/2020

- [d] Recommend how to stabilize the site for further remediation (i.e., secure the site from storm water).
 - [e] Identify watercourse boundaries near the spill/unplanned release.
 - [f] Determine if samples need to be collected.
 - [g] Recommend sample types and analysis.
 - [h] Recommend sample locations and the number of samples to determine extent of condition.
- [5] If sample collection is required, have the DEP/WMC contact the waste management organization and complete a Request for Analysis (RFA), <http://int.lanl.gov/environment/waste/sampling.shtml>, to schedule sampling. Specify the analytical suite and turn-around time needed for the sample in the RFA.
- [6] Document the following information regarding the spill or unplanned release in the Logbook:
- Timeline of spill/unplanned release response as it occurs.
 - Nature and extent of the spill/unplanned release (i.e., inside a building, on asphalt, nearest watercourse/drainage area, proximity to SWMU/AOC and/or outfalls).
 - Steps taken to contain the spill.
 - Samples collected, if any. Include number, type, location, and analysis.
 - Spill and control equipment used to remediate the spill.
 - Corrective actions completed and the amount of waste material.

4.2 Non-Emergency Spill or Unplanned Release

The Spill Investigator will respond to non-emergency spills/unplanned releases when notified. Non-emergency spills/unplanned releases typically include potable water leaks; sanitary wastewater leaks, spills, overflows; and small volumes of known chemicals (e.g., hydraulic fluid leaks, vehicle oil leaks). Non-Emergency Spills/Unplanned Releases are typically handled by a designated FOD representative (i.e., operations, maintenance), DEP, or WMC assigned to the area. The following provides the steps a Spill Investigator will follow when responding a non-emergency spill/unplanned release.

Spill Investigator/On Call

- [1] Coordinate with the FOD designee and/or waste management coordinator to visit the location of the spill/unplanned release.
- [2] Travel to the location of the spill/unplanned release.

Spill Investigations	No: EPC-CP-QP-1007	Page 10 of 20
	Revision: 0	Effective Date: 06/03/2020

CAUTION

The Spill Investigator may respond to the spill or unplanned release and determine whether the containment and remediation is beyond the capability of the designated FOD representative, DEP, and/or WMC to respond. The EOC should be contacted if additional technical expertise or materials are needed to remediate the release.

- [3] Assess and evaluate the nature and extent of the release as follows:
 - [a] If the spill/release is a small volume or known material (e.g., sanitary waste, potable water, small hydraulic leak), proceed to step 4.
 - [b] If the spill/release is an unknown (e.g., leaking fluid from a metal recycling bin, drum, battery, or other container), stop work and notify the EOC at 667-2400.
 - [c] If the spill/release is a hazardous material or large volume of petroleum product (i.e., battery acid, chemical tank, fuel, hydraulic fluid, oil), stop work and notify the EOC at 667-2400.
 - [d] If the spill/release appears to be beyond the capability of the designated FOD representative, DEP, and/or WMC to contain and/or remediate, the Spill Investigator shall stop work and notify the EOC at 667-2400 to obtain the appropriate resources.
- [4] Provide guidance to the FOD designee and/or waste management coordinator regarding the containment and/or cleanup of the release. Examples of the types of guidance provided include the following:
 - [a] Provide the final inspection of the site to ensure that corrective actions were adequate and are complete.
 - [b] Recommend corrective actions.
 - [c] Inspect the site to ensure that the extent of the spill/unplanned release is adequately defined.
 - [d] Recommend how to stabilize the site for further remediation (i.e., secure the site from storm water).
 - [e] Identify watercourse boundaries near the spill/unplanned release.
 - [f] Determine if samples need to be collected.
 - [g] Recommend sample types and analysis.
 - [h] Recommend sample locations and the number of samples to determine extent of condition.
- [5] If sample collection is required, have the DEP/WMC contact WM-SVS and complete a RFA, <http://int.lanl.gov/environment/waste/sampling.shtml>, to schedule sampling. Specify the analytical suite and turn-around time needed for the sample in the RFA.

Spill Investigations	No: EPC-CP-QP-1007	Page 11 of 20
	Revision: 0	Effective Date: 06/03/2020

- [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.

Spill Investigations	No: EPC-CP-QP-1007	Page 12 of 20
	Revision: 0	Effective Date: 06/03/2020

- [2] Identify the verbal and written EXTERNAL reporting requirements in accordance with [EPC-CP-QP-0903, Environmental Reporting Requirements for Releases](#).

4.3.2 Non-Reportable Spills/Unplanned Releases

Spill Investigator/On Call Spill Responder

- [1] Notify the internal stakeholders (i.e., EPC-CP, SME, FOD, and designated FOD Representative) by phone and/or email (Attachment 1). Include the following pertinent facts as recorded in the logbook:
- Date, Time, Location of the release.
 - Quantity and type of material.
 - Status of corrective actions.
- [2] Document the spill/unplanned release in the spills database.
- [3] Document spills/unplanned releases that are NOT reportable to an external regulatory agency on EPC-CP-QP-1007-Form 1, Unplanned Release Report (Attachment 2).
- [a] If the Form 1 is completed by a DEP or other designated FOD representative, request a copy of the signed form.
- [b] Attach completed EPC-CP-QP-1007-Form 1 to the spill database record.
- [4] Submit copies of the accumulated EPC-CP-QP-1007-Form 1's, (annually), to records in accordance with [ADESH-AP-006, Records Management](#).

4.3.3 Reportable Spills/Unplanned Releases

Spill Investigator/On Call Spill Responder

- [1] Notify the internal stakeholders (i.e., EPC-CP, SME, FOD, and designated FOD Representative) by phone and/or email (Attachment 1). Include the following pertinent facts as recorded in the logbook:
- [a] Date, Time, Location of the release.
 - [b] Quantity and type of material.
 - [c] Status of corrective actions.
- [2] Notify National Nuclear Safety Administration (NNSA)/Los Alamos Site Office (LASO).
- [3] Perform the required EXTERNAL verbal notifications to the appropriate regulatory agencies (i.e., New Mexico Environment Department [NMED], Environmental Protection Agency [EPA]) in accordance with [EPC-CP-QP-0903, Environmental Reporting Requirements for Releases](#).

Spill Investigations	No: EPC-CP-QP-1007	Page 13 of 20
	Revision: 0	Effective Date: 06/03/2020

- [4] Document spills/unplanned release on EPC-CP-QP-1007-Form 2, *7/15 Day Release Report* (Attachment 3).
 - [a] Ensure that the EPC-CP-QP-1007-Form 2 is reviewed and assigned an LA-UR document release number.
 - [b] Attach the final EPC-CP-QP-1007-Form 2 to the spill database record.
 - [c] Submit the final EPC-CP-QP-1007-Form 2 as an e-mail attachment to the appropriate regulatory agency.
 - [d] Submit a copy of the EPC-CP-QP-1007-Form 2 to the internal stakeholders and NNSA/LASO.
- [5] Document the spill/unplanned release in the spills database.
- [6] Attach completed EPC-CP-QP-1007-Form 2 to the spill data base record.
- [7] Electronically file a copy of the EPC-CP-QP-1007-Form 2 in Spills folder located at ENV(\\dcstorage.lanl.gov):\\CP\\WQ\\WQCC COMP PROG.
- [8] Submit copies of the accumulated EPC-CP-QP-1007-Form 2's, (annually), to records in accordance with [ADESH-AP-006, Records Management](#).

5.0 TRAINING

All EPC-CP personnel that execute the activities specified in this procedure must meet the minimum qualification and training requirements for their position as identified in [EPC-CP-PIP-1001, New Mexico Water Quality Control Commission \(WQCC\) Program Implementation Plan \(PIP\)](#). This will include "self-study" (required reading) for this procedure as assigned and documented in accordance with [ADESH-TPP-301, ADESH Training Program Plan \(TPP\)](#).

6.0 RECORDS

EPC-CP is the Office of Record for this document and must be maintained in accordance with [PD1020, Document Control and Records Management](#) and [ADESH-AP-006, Records Management Plan](#). Records generated by this document will be submitted to the Records Management designated point of contact or document manager for document management. The following records are generated by this procedure.

Record Title	QA Record	Non-QA Record
EPC-CP-QP-1007 Form 1, <i>EPC-CP Unplanned Release Report</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
EPC-CP-QP-1007 Form 2, <i>EPC-CP 7/15 Day Release Report</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Correspondence (i.e., E-mail Notifications to LANL Management, DOE, and other EPC-CP permit subject matter experts)	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Spill Investigations	No: EPC-CP-QP-1007	Page 14 of 20
	Revision: 0	Effective Date: 06/03/2020

Correspondence - E-mail Submittals of 7/15 Day Release Reports to NMED	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Logbook	<input checked="" type="checkbox"/>	<input type="checkbox"/>

7.0 DEFINITIONS AND ACRONYMS

7.1 Definitions

See LANL [Definition of Terms](#).

Release – Any unpermitted spilling, leaking, pumping, pouring, emitting, emptying, discharging, injecting, escaping, leaching, dumping, or disposing of contaminants into the environment, excluding: (1) emissions from the engine exhaust of any vehicle, (2) certain releases of source, byproduct, or special nuclear material from a nuclear incident, or (3) normal application of fertilizer.

7.2 Acronyms

See LANL [Acronym Master List](#).

AOC	Area of Concern
DEP	Deployed Environmental Professional
EMD-EO	Emergency Management Division -Emergency Operations Group
EOC	Emergency Operations Center
EPC-CP	Environmental Protection and Compliance Group
FOD	Facility Operations Directorate
LAC	Los Alamos County
LANL or the Laboratory	Los Alamos National Laboratory
LASO	Los Alamos Site Office (LASO).
N3B	Newport News Nuclear BWXT Los Alamos
NMED	New Mexico Environment Department
NNSA	National Nuclear Safety Administration
PIP	Program Implementation Plan
PPE	Personal Protective Equipment
SWMU	Solid Waste Management Unit
TPP	Training Program Plan
WMC	Waste Management Coordinator
WQCC	Water Quality Control Commission
SME	Subject Matter Expert

Spill Investigations	No: EPC-CP-QP-1007	Page 15 of 20
	Revision: 0	Effective Date: 06/03/2020

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*

Spill Investigations	No: EPC-CP-QP-1007	Page 16 of 20
	Revision: 0	Effective Date: 06/03/2020

Attachment 1: Release Notification Phone List

Los Alamos National Laboratory

- | | |
|---|----------------|
| (1) Emergency Operations Support Center | (505) 667-2400 |
| (2) EPC-ES Group Office | (505) 665-8855 |
| (3) EPC-CP Group Office | (505) 667-0666 |
| (4) EPC-DO | (505) 667-2211 |
| (5) EPC-CP Spills Pager | (505) 664-7722 |

New Mexico Environment Department

- | | |
|--|------------------|
| (1) NMED Emergency Hotline (24 hours a day) | (505) 827-9329 |
| (2) NMED Non-Emergency Hotline (Voicemail; 24 hours a day) | 1 (866) 428-6535 |
| (3) NMED Surface Water Quality Bureau | (505) 827-0187 |
| Jennifer Foote | (505) 827-0596 |
| (4) NMED Ground Water Quality Bureau | (505) 827-2900 |
| Gerald (Jake) Knutson | (505) 827-2996 |
| Steve Pullen | (505) 827-2962 |
| (5) NMED Hazardous Waste Bureau | (505) 476-6000 |
| Stephen Connolly | (505) 476-6025 |

U.S Environmental Protection Agency

- | | |
|---|------------------|
| (1) US EPA Region 6 Spill Reporting (During business hours) | 1 (800) 887-6063 |
| Emergencies- Contact the NRC | 1 (800) 424-8802 |
| (2) Nancy Williams | 1 (214) 665-7179 |

Los Alamos Fire Department

(505) 662-8301

U.S. Department of Energy

- | | |
|------------------|----------------|
| (1) Karen Armijo | (505) 665-7314 |
|------------------|----------------|

Newport News Nuclear BWXT Los Alamos (N3B)

- | | |
|---------------------------|----------------|
| (1) N3B Operations Center | (505) 551-2954 |
|---------------------------|----------------|

New Mexico State Police

- | | |
|-------------------------|----------------|
| New Mexico State Police | (505) 827-9604 |
|-------------------------|----------------|

EPC-CP On-Call Environmental Representative for Release Assessment and Notifications to External Agencies

- | | |
|-------------------|-------------------------|
| (1) Terrill Lemke | (505) 665-2397 (Office) |
| | (505) 699-0725 (Cell) |
| (2) Steve Pearson | (505) 667-3005 (Office) |
| | (505) 699-3684 (Cell) |
| (3) Mike Saladen | (505) 665-6085 (Office) |
| | (505) 699-1284 (Cell) |
| (4) Tim Zimmerly | (505) 664-0105 (Office) |
| | (505) 699-7621 (Cell) |

Spill Investigations	No: EPC-CP-QP-1007	Page 17 of 20
	Revision: 0	Effective Date: 06/03/2020

Attachment 2: Unplanned Release Report, EPC-CP-QP-1007-Form 1

Los Alamos National Laboratory Environmental Compliance Program (EPC-CP) Unplanned Release Report		
Form Completed By:		Telephone:
Spill Owner Details (Specify):		Group:
<input type="checkbox"/> TRIAD, LLC	<input type="checkbox"/> Subcontractor: _____	<input type="checkbox"/> Other: _____
Date of Spill/Date Spill Discovered:		
Location:		
Material Spilled:		
<input type="checkbox"/> Hydraulic Fluid	<input type="checkbox"/> Anti-freeze/coolant	<input type="checkbox"/> Refrigerant Oil
<input type="checkbox"/> Potable Water	<input type="checkbox"/> Steam Condensate	<input type="checkbox"/> Gasoline
<input type="checkbox"/> Diesel	<input type="checkbox"/> Lubricants/Oils	<input type="checkbox"/> Other: _____
Volume Spilled:	Waste Volume Generated:	
Source of Spill:	<input type="checkbox"/> Potable Water Line	<input type="checkbox"/> Radiator
Vehicle ID:	<input type="checkbox"/> Fire Suppression System	<input type="checkbox"/> Condensate Line
Equipment ID:	<input type="checkbox"/> Fuel Tank	<input type="checkbox"/> Other: _____
Describe the spill response in chronological order. Include response personnel, steps taken to contain the spill, and steps/spill control equipment used to clean it up. Please indicate if corrective actions have been completed and describe actions taken to prevent spill recurrence:		
Date Corrective Actions Completed:		
Did the spill enter or impact any of the following? (Check as many as apply)		<input type="checkbox"/> Floor Drain, if so please indicate affected facility _____ <input type="checkbox"/> Watercourse/drainage area, if so please indicate _____ <input type="checkbox"/> Solid Waste Management Unit/Area of Concern, if so please indicate _____ <input type="checkbox"/> None
<input type="checkbox"/> RCRA Treatment Storage Disposal Facility <input type="checkbox"/> RCRA Satellite Accumulation Area <input type="checkbox"/> RCRA <90 Day Storage Area <input type="checkbox"/> NPDES MSGP Facility		
Did the spill occur inside or outside a building? <input type="checkbox"/> Inside <input type="checkbox"/> Outside		
Did the spill occur on: (Check as many as apply)		
<input type="checkbox"/> Concrete	<input type="checkbox"/> Asphalt	
<input type="checkbox"/> Carpeted Floor	<input type="checkbox"/> Graveled/Rocky Area	
<input type="checkbox"/> Tile	<input type="checkbox"/> Soil/Vegetated Area	
<input type="checkbox"/> Wooden Floor/Deck	<input type="checkbox"/> Other: _____	
Samples Collected:		
<input type="checkbox"/> None	<input type="checkbox"/> Soil	If samples were collected, indicate analytical suite:
<input type="checkbox"/> Water	<input type="checkbox"/> Air	
<input type="checkbox"/> Other: _____		
Certification		
I certify that I am knowledgeable about the information on this form. The information, to my knowledge, is true, accurate, and complete.		
Name of Certifying Official:	Organization:	Date:
Certification:		
Completed by EPC-CP Personnel		<input type="checkbox"/> Non-Reportable
Date Received:	Severity Index:	<input type="checkbox"/> Reportable
Causal Analysis:		

Spill Investigations	No: EPC-CP-QP-1007	Page 18 of 20
	Revision: 0	Effective Date: 06/03/2020

Attachment 3: 7/15 Day Release Report, EPC-CP-QP-1007-Form 2

RELEASE / DISCHARGE NOTIFICATION LOS ALAMOS NATIONAL LABORATORY LA-UR- 		Calendar Year <div style="border: 1px solid black; padding: 5px; font-size: 24px; width: 80px; margin: 0 auto;">2020</div>
Permit Number: NM0028355		

NPDES or Operational Spill/Release <input checked="" type="checkbox"/> ER Spill/Release <input type="checkbox"/> Other Spill/Release <input type="checkbox"/>	} Indicate with "X" in appropriate box.	Release ID Number: <div style="border: 1px solid black; height: 20px; width: 100%;"></div>
---	---	---

Responsible Facility/User Group:

Contact Person: Pager #:

Phone #: Cell Phone #:

Release/Discharge Location:

TA:

Building:

If the release/discharge is associated with a NPDES Outfall, Potential Release Site (PRS) or Solid Waste Management Unit (SWMU), indicate the site/unit number and its relationship to the release/discharge:

NPDES Outfall: ☐ PRS: ☐ SWMU: ☐ PRS/SWMU Number:

Indicate with "X" in appropriate box(es).

Relationship of the Discharge to a SWMU or PRS:

Discharge Occurred: 	Discharge Discovered: 	Discharge Stopped:
Date & Time	Date & Time	Date & Time

Cleanup Started: 	Cleanup Completed:
Date & Time	Date & Time

Material(s) Released / Discharged:

Spill Investigations	No: EPC-CP-QP-1007	Page 11 of 20
	Revision: 0	Effective Date: 06/03/2020

Release/Discharge Mitigation Method:

Weather Conditions:

Duration of Release/
Discharge, in HOURS:

Est. Volume released, in
gallons:

Est. Volume Recovered,
in gallons.

Corrective Actions Taken (ie, type of BMPs, etc):

Nearest Watercourse (Canyon Name)

If the release/discharge reached a watercourse, describe the estimated surface area affected, presence of release/discharge now in the watercourse, and the media the release/discharge was detected in:

Depth to Groundwater, in FT, if known:

Distance to Nearest Drinking Water Well, in FT, if known:

Well ID#

24-HOUR RELEASE / DISCHARGE NOTIFICATIONS

	Contact Person	Phone	Fax	Date & Time (or Comment)
EPA:	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
NMED/SWQB:	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
NMED/GWQB:	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
NMED/HRMB:	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
NMED/DOE-OB:	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
EPC-CP:	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
DOE:	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
OTHER:	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
OTHER:	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Comments:

Form Completed By:

Spill Investigations	No: EPC-CP-QP-1007	Page 12 of 20
	Revision: 0	Effective Date: 06/03/2020

7 DAY RELEASE / DISCHARGE ACTIONS

7 Day Notice ☐

7 Day Notice Date:

7 Day Notice By:

Mark "X" when done.

Comments:

15 DAY RELEASE / DISCHARGE ACTIONS

15 day Follow-up Due:

15-day Follow-Up By:

Comments:

NMED 30 DAY APPROVAL / DISAPPROVAL

NMED 30 Day Response Date:

Comments:

Peter Maggiore, Acting Assistant Manager
National Security Missions
Los Alamos Field Office
3747 West Jemez Road MS-A316
Los Alamos, New Mexico 87544
(505) 606-0397

Jennifer Payne, EPC Division Director
Triad National Security, LLC.
Los Alamos National Laboratory
P.O. Box 1663, MS K404
Los Alamos, New Mexico 87544
(505) 667-2211

**ATTACHMENT 23: EPC-CP-QP-2110, MSGP STORMWATER POLLUTION PREVENTION PLAN
PREPARATION AND MAINTENANCE**

EPC-CP-QP-2110Revision: **0**

Effective Date: 01/07/2020

Next Review Date: 01/07/2023

Environment, Safety, Health, Quality, Safeguards, and Security Directorate
Environment Protection and Compliance – Compliance Programs Group
Quality Procedure

MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance

Hazard Grading: ☒ Low ☐ Moderate ☐ High/Complex
Usage Level: ☒ Reference ☐ UET ☐ Mixed: UET Sections: _____
Status: ☒ New ☐ Major Revision ☐ Minor Revision
☐ Review w/No Changes ☐ Other: _____
Safety Basis: ☒ N/A ☐ USQ ☐ USI Number: _____

Document Author/Subject Matter Expert:

Name:	Organization:	Signature:	Date:
Holly L. Wheeler	EPC-CP	Signature on File	1-6-2020

Derivative Classifier: ☒ **Unclassified** or ☐ _____

Name:	Organization:	Signature:	Date:
Steven E. Wolfel	EPC-CP	Signature on File	1-6-2020

Approval Signatures:

EPC-CP Reviewer:	Organization:	Signature:	Date:
Terrill W. Lemke, Team Leader	EPC-CP	Signature on File	1-7-2020
EPC-CP RLM:	Organization:	Signature:	Date:
Taunia Van Valkenburg, Group Leader	EPC-CP	Signature on File	1-7-2020

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MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance	No: EPC-CP-QP-2110	Page 2 of 72
	Revision: 0	Effective Date: 01/07/2020

REVISION HISTORY

Document Number and Revision <i>[Include revision number, beginning with Revision 0]</i>	Effective Date <i>[Document Control Coordinator inserts effective date]</i>	Description of Changes <i>[List specific changes made since the previous revision]</i>
EPC-CP-QP-2110, Rev. 0	01/07/2020	New document

MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance	No: EPC-CP-QP-2110	Page 3 of 72
	Revision: 0	Effective Date: 01/07/2020

Table of Contents

Revision History	2
1.0 Introduction	4
1.1 Purpose	4
1.2 Scope	4
1.3 Applicability	4
2.0 Precautions and Limitations	4
3.0 Preparing an MSGP Stormwater Pollution Prevention Plan	4
3.1 Gathering Information for the SWPPP	5
3.2 Preparing the SWPPP	5
4.0 Maintaining the MSGP SWPPP	7
4.1 Availability of the MSGP SWPPP	7
4.2 Additional Documentation Requirements	7
5.0 Revising the MSGP SWPPP	8
6.0 Training	9
7.0 Records	10
8.0 Definitions and Acronyms	10
8.1 Definitions	10
8.2 Acronyms	11
9.0 References	11
10.0 Attachments	11
Attachment 1: EPC-CP-QP-2110 R0 Form 1, MSGP SWPPP Template Example	12
Attachment 2: MSGP SWPPP Review Guidance Checklist Example	62

MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance	No: EPC-CP-QP-2110	Page 4 of 72
	Revision: 0	Effective Date: 01/07/2020

1.0 INTRODUCTION

The Environmental Protection Agency (EPA) National Pollutant Discharge Elimination System (NPDES) Multi-Sector General Permit (MSGP), also referred to as the Permit, contains specific requirements for industrial activities of Los Alamos National Laboratory (LANL) covered by the permit. One requirement is the preparation, maintenance, and routine revision of a Stormwater Pollution Prevention Plan (SWPPP).

1.1 Purpose

Active MSGP facilities must be included in a SWPPP. The SWPPP is intended to document the selection, design, and installation of control measures to meet permit effluent limits. Additional documentation required by the Permit is to be kept with the SWPPP (including inspection maintenance, monitoring, and corrective action) and is intended to document the implementation of permit requirements.

1.2 Scope

This procedure contains information and specific steps for preparing a SWPPP, and identifying and documenting conditions in order to meet Permit requirements. Part 5 of the Permit contains specific requirements for developing, maintaining, and revising a SWPPP for facilities with stormwater discharge associated with industrial activities permitted under an MSGP. Part 5.5 describes the additional documentation required to be kept with the SWPPP.

1.3 Applicability

This procedure applies to Environmental Protection and Compliance-Compliance Programs (EPC-CP) technical staff, Deployed Environmental Professionals (DEPs), and subcontractor personnel (as applicable) who develop and maintain SWPPPs at MSGP regulated LANL facilities operated by Triad, LLC.

2.0 PRECAUTIONS AND LIMITATIONS

The hazard rating for the activities described in this procedure is **LOW** and does not require an Integrated Work Document.

3.0 PREPARING AN MSGP STORMWATER POLLUTION PREVENTION PLAN

Part 5 of the Permit contains the specific requirements for developing, maintaining, and revising a SWPPP. At a minimum, the SWPPP must contain the following elements:

- Stormwater pollution prevention team (Stormwater PPT);
- Site description (including a site map);
- Summary of potential pollutant sources;
- Description of control measures;

MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance	No: EPC-CP-QP-2110	Page 5 of 72
	Revision: 0	Effective Date: 01/07/2020

- 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.

MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance	No: EPC-CP-QP-2110	Page 6 of 72
	Revision: 0	Effective Date: 01/07/2020

- [a] IF text is part of an instruction (e.g., **Insert site description text here.**)
THEN delete the entire line and replace with the appropriate information.
 - [b] IF text is embedded as part of the line,
THEN replace just the yellow highlighted text with appropriate information (e.g., delete **Sector XX-(Insert Sector Title)** and replace with *Sector P – Land Transportation & Warehousing*).
 - [4] Delete attachments that are not applicable to the active facility specific SWPPP.
 - [5] Attach other documentation (e.g., Spill Prevention, Control and Countermeasure Plan, Environmental Management System, copies of relevant portions of documents) as necessary.
 - [6] Send the draft SWPPP to the EPC-CP MSGP Program Lead and request a review.
- NOTE 1:** The EPC-CP MSGP Program Lead may delegate the review to personnel in the Storm Water Permitting/Compliance Team.

MSGP Program Lead or Designee

- [7] Review the SWPPP to ensure information required by the Permit is included.
 - [a] Encourage the use of the *MSGP SWPPP Review Guidance Checklist* as a best management practice to cross-check SWPPP content with the Permit. See checklist example in Attachment 2.
 - [b] Provide comments to the SWPPP Preparer.

SWPPP Preparer

- [8] The Preparer must resolve review comments with the MSGP Program Lead.
 - [9] Obtain the signature of a duly authorized representative (refer to Appendix B, Subsection 11 of the Permit) on the certification statements associated with the SWPPP and attachments (refer to Attachment 9 of the *MSGP SWPPP Template Example*).
- NOTE 2:** The Review & Approval System for Scientific and Technical Information (RASSTI) system requires upload of only PDF documents. It is highly recommended that all final certifications obtained contain a written signature rather than electronic signature. The RASSTI system adds a cover page to the document containing the LA-UR number, which obviates all electronic signatures due to the document change.

MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance	No: EPC-CP-QP-2110	Page 7 of 72
	Revision: 0	Effective Date: 01/07/2020

4.0 MAINTAINING THE MSGP SWPPP

4.1 Availability of the MSGP SWPPP

A complete copy of the current SWPPP is required to be kept at the active facility in an accessible format. The SWPPP must be immediately available to facility employees, EPA, and other entities identified in the Permit. The SWPPP must also be made available to the public. LANL meets this requirement by posting SWPPPs to the Public Reading Room internet web page. Refer to Part 5.4 of the Permit for more information.

SWPPP Preparer

- [1] Submit the final certified SWPPP in PDF format to the RASSTI system at *rassti.lanl.gov*.
 - [a] The SWPPP must be identified as Los Alamos Unlimited Release, or LA-UR, to be posted to the Public Reading Room.
 - [b] Identify a derivative classifier to review the document.
 - [c] Identify the document for a **full classification review**. The Designated Unclassified Subject Area, or DUSA, system may **NOT** be used.
 - [d] Identify a line manager for an approval signature.
 - [e] Identify the document for release to Public Reading Room.
- [2] Add the cover page containing the LA-UR number generated by the RASSTI system to the SWPPP.
- [3] Contact the RASSTI staff for questions and assistance using this system.

4.2 Additional Documentation Requirements

The Permit requires additional documentation to be kept with the SWPPP that together keep records complete and up-to-date, and demonstrate full compliance with the conditions of the Permit. Some documents may be generated when a SWPPP is first written (e.g., copy of the permit). Other documents may be generated on an ongoing basis throughout a calendar year (e.g., inspections). Refer to Part 5.5 of the Permit for additional information.

SWPPP Preparer or Owner

- [1] IF any of the following documents are generated, THEN add the document to the facility SWPPP as soon as the document is generated and finalized (i.e., all signatures have been obtained).
 - A copy of the Notice of Intent to Discharge (NOI) submitted to EPA and correspondence exchanged between Triad, LLC and EPA specific to coverage under the permit;

MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance	No: EPC-CP-QP-2110	Page 8 of 72
	Revision: 0	Effective Date: 01/07/2020

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.

MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance	No: EPC-CP-QP-2110	Page 9 of 72
	Revision: 0	Effective Date: 01/07/2020

- Spill and leak procedures.
 - Non-stormwater discharges (as applicable).
- [2] IF any of the following conditions occur or are detected during an inspection, monitoring or other means,
THEN the Stormwater PPT must **immediately** review the SWPPP as specified above.
- Unauthorized release or discharge (e.g., spill, leak, discharge of non-stormwater not authorized by the permit);
 - A discharge violates a numeric effluent limit (refer to Table 2-1 of the Permit);
 - Controls measures are not stringent enough for discharge to meet applicable water quality standards or the non-numeric effluent limits in the permit;
 - A required control measure was never installed, installed incorrectly, or not in accordance with Parts 2 and/or 8, or is not properly operated or maintained;
 - Whenever a visual assessment shows evidence of stormwater pollution (e.g., foam, oil sheen, etc.).
 - Construction or a change in design, operation, or maintenance at the facility that significantly changes the nature of pollutants discharged in stormwater from the facility , or significantly increases the quantity of pollutants discharged;
- NOTE 1:** Changes include building removal or replacement, BMP removal or installation, outfall removal or creating a new outfall, changing drainage pathways or the path of stormwater flow.
- The average of four quarterly sampling results exceeds an applicable benchmark.
- NOTE 2:** If less than four benchmark samples have been taken, but the results are such that an exceedance of the four quarter average is mathematically certain this is considered a benchmark exceedance.
- [3] The Stormwater PPT must determine the modification(s) to be made to implement or maintain control measures and/or take corrective action.
- [4] The revision/modification(s) will be implemented at the facility.
- [5] The SWPPP will be revised/modified within 14 days of completion of a modification or corrective action to reflect the modification(s) made.
- [6] Obtain a signature and date from a duly authorized representative on all SWPPP revisions/modifications in accordance with Appendix B, Subsection 11 of the Permit.

6.0 TRAINING

The following personnel require training before implementing this procedure.

MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance	No: EPC-CP-QP-2110	Page 10 of 72
	Revision: 0	Effective Date: 01/07/2020

- Deployed Environment, Safety, and Health Group and Team Leaders
- EPC-CP MSGP stormwater compliance personnel
- DEPs
- Other LANL or subcontract personnel identified as being required to prepare and maintain MSGP SWPPPs as part of their job duties

All EPC-CP personnel that execute the activities specified in this procedure must meet the minimum qualification and training requirements for their position as identified EPC-CP-PIP-2101, NPDES Multi-Sector General Permit Program. This will include “self-study” (required reading) for this procedure as assigned and documented in accordance with ADOSH-TTP-301, *ADESH Training Program Plan*. Other participating LANL groups may require training documentation pursuant to local procedures.

Contract personnel that execute the activities specified in this procedure will be qualified and trained as required by the Exhibit D and Exhibit F. In addition, contract personnel will be required to complete “self-study” (required reading) of this procedure.

7.0 RECORDS

MSGP SWPPPs are signed and certified by a duly authorized representative of the individual facilities. These completed documents are maintained at the permitted facility, managed by the facility’s Records Management designated point-of-contact or document manager, and posted to the LANL public reading room. The MSGP team may retain a copy for reference purposes.

Below, are records generated as a result of implementing this procedure. Records generated are identified by title and type.

Record Title	QA Record	Non-QA Record
Stormwater Pollution Prevention Plan	<input checked="" type="checkbox"/>	<input type="checkbox"/>
MSGP SWPPP Review Guidance Checklist	N/A	N/A

8.0 DEFINITIONS AND ACRONYMS

8.1 Definitions

See LANL [Definition of Terms](#).

Best Management Practice (BMP) – Schedules of activities, prohibitions of practices, maintenance procedures, and other management practices to prevent or reduce the pollution of “waters of the United States.” BMPs also include treatment requirements, operating procedures, and practices to control plant site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage (*40 CFR Part 122.2*).

Control Measure – Any BMP or other method (including effluent limitations) used to prevent or reduce the discharge of pollutants to waters of the United States.

MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance	No: EPC-CP-QP-2110	Page 11 of 72
	Revision: 0	Effective Date: 01/07/2020

8.2 Acronyms

See LANL [Acronym Master List](#).

EPA	Environmental Protection Agency
EPC-CP	Environmental Protection and Compliance-Compliance Programs
DEP	Deployed Environmental Professional
DUSA	Designated Unclassified Subject Area
LANL or the Laboratory	Los Alamos National Laboratory
LA UR	Los Alamos Unlimited Release
MSGP or Permit	Multi-Sector General Permit
NPDES	National Pollutant Discharge Elimination System
NOI	Notice of Intent to Discharge
SWPPP	Stormwater Pollution Prevention Plan
PDF	Portable Document Format
PPT	Pollution Prevention Team

9.0 REFERENCES

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

MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance	No: EPC-CP-QP-2110	Page 12 of 72
	Revision: 0	Effective Date: 01/07/2020

Attachment 1: EPC-CP-QP-2110 R0 Form 1, MSGP SWPPP Template Example
(Page 1 of 50)

Insert Facility Name
 MSGP Stormwater Pollution Prevention Plan
 Document Reference Number
 Revision X, Date

MSGP Stormwater Pollution Prevention Plan

Insert Facility Name

Triad National Security, LLC
Los Alamos National Laboratory

XX/XX/XXXX

Revision X

EXAMPLE

MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance	No: EPC-CP-QP-2110	Page 13 of 72
	Revision: 0	Effective Date: 01/07/2020

Attachment 1: EPC-CP-QP-2110 R0 Form 1, *MSGP SWPPP Template Example* (cont.)
(Page 2 of 50)

Insert Facility Name
 MSGP Stormwater Pollution Prevention Plan
 Document Reference Number
 Revision X, Date

Page intentionally blank

EXAMPLE

MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance	No: EPC-CP-QP-2110	Page 14 of 72
	Revision: 0	Effective Date: 01/07/2020

Attachment 1: EPC-CP-QP-2110 R0 Form 1, MSGP SWPPP Template Example (cont.)
(Page 3 of 50)

Insert Facility Name
 MSGP Stormwater Pollution Prevention Plan
 Document Reference Number
 Revision X, Date

TABLE OF CONTENTS

PREFACE.....	6
1.0 FACILITY DESCRIPTION	6
1.1 Facility Information.....	6
1.2 Stormwater Pollution Prevention Team (PPT).....	7
1.3 Site Description	8
1.4 General Location Map.....	8
1.5 Site Map.....	8
2.0 POTENTIAL POLLUTANT SOURCES.....	9
2.1 Potential Pollutants Associated with Industrial Activity	9
2.2 Spills and Leaks.....	9
2.3 Unauthorized Non-Stormwater Discharges	10
2.4 Salt Storage.....	10
2.5 Historical Data Summary	10
3.0 STORMWATER CONTROL MEASURES.....	11
3.1 Non-Numeric Technology-Based Effluent Limits	11
3.1.1 Minimize Exposure.....	11
3.1.2 Good Housekeeping.....	11
3.1.3 Maintenance.....	11
3.1.4 Spill Prevention and Response.....	12
3.1.5 Erosion and Sediment Control.....	12
3.1.6 Management of Runoff.....	12
3.1.7 Salt Storage Piles or Piles Containing Salt.....	13
3.1.8 Dust Generation and Vehicle Tracking of Industrial Materials.....	13
3.2 Numeric Effluent Limitations Based on Effluent Limitations Guidelines	13
3.3 Water Quality-Based Effluent Limitations and Water Quality Standards.....	13
4.0 SCHEDULES AND PROCEDURES	13
4.1 Good Housekeeping	13
4.2 Maintenance.....	13
4.3 Spill Prevention and Response	14
4.4 Erosion and Sediment Control.....	14
4.5 Employee Training.....	14
4.6 Routine Facility Inspections and Quarterly Visual Assessments	15

MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance	No: EPC-CP-QP-2110	Page 15 of 72
	Revision: 0	Effective Date: 01/07/2020

Attachment 1: EPC-CP-QP-2110 R0 Form 1, MSGP SWPPP Template Example (cont.)

(Page 4 of 50)

	Insert Facility Name
	MSGP Stormwater Pollution Prevention Plan
	Document Reference Number
	Revision X, Date
4.6.1	Routine Facility Inspections..... 15
4.6.2	Quarterly Visual Assessments..... 16
4.7	Monitoring..... 16
5.0	DOCUMENTATION FOR ELIGIBILITY CONSIDERATIONS UNDER OTHER FEDERAL LAWS20
5.1	Endangered Species 20
5.2	Historic Properties..... 20
6.0	CORRECTIVE ACTIONS AND DEADLINES 20
6.1	Immediate Actions..... 21
6.2	Subsequent Actions..... 21
6.3	Corrective Action Documentation..... 21
7.0	ACRONYMS 22
8.0	SWPPP CERTIFICATION 23
FIGURE A:	GENERAL LOCATION MAP..... 24
FIGURE B:	MAP(S)..... 25
ATTACHMENT 1:	NOTICE OF INTENT, SUPPORTING DOCUMENTATION, AND UPDATES 26
ATTACHMENT 2:	SWPPP AMENDMENTS 27
ATTACHMENT 3:	CERTIFICATION OF NO UNAUTHORIZED STORMWATER DISCHARGES 28
ATTACHMENT 4:	DULY AUTHORIZED SIGNATORY MEMORANDUM..... 29
ATTACHMENT 5:	DISCHARGE MONITORING REPORTS 30
ATTACHMENT 6:	ANNUAL REPORTS 31
ATTACHMENT 7:	ROUTINE FACILITY INSPECTIONS 32
ATTACHMENT 8:	QUARTERLY VISUAL ASSESSMENTS 33
ATTACHMENT 9:	CORRECTIVE ACTION DOCUMENTATION AND CERTIFICATION 34
ATTACHMENT 10:	SCHEDULED MAINTENANCE LOG..... 35
ATTACHMENT 11:	TRAINING DOCUMENTATION 36
ATTACHMENT 12:	MSGP (OR ACTIVE URL)..... 37

MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance	No: EPC-CP-QP-2110	Page 16 of 72
	Revision: 0	Effective Date: 01/07/2020

Attachment 1: EPC-CP-QP-2110 R0 Form 1, MSGP SWPPP Template Example (cont.)
(Page 5 of 50)

Insert Facility Name
 MSGP Stormwater Pollution Prevention Plan
 Document Reference Number
 Revision X, Date

ATTACHMENT 13: THREATENED AND ENDANGERED SPECIES HABITAT MANAGEMENT PLAN FOR LOS ALAMOS NATIONAL LABORATORY	38
ATTACHMENT 14: MSGP IPAC TRUST RESOURCES REPORT	39
ATTACHMENT 15: EPC-CP-PIP-2101, NPDES MULTI-SECTOR GENERAL PERMIT	40
ATTACHMENT 16: EPC-CP-QP-023, MSGP ROUTINE FACILITY INSPECTIONS	41
ATTACHMENT 17: EPC-CP-QP-022, MSGP CORRECTIVE ACTIONS	42
ATTACHMENT 18: EPC-CP-QP-064, MSGP STORMWATER VISUAL ASSESSMENTS	43
ATTACHMENT 19: EPC-CP-QP-047, INSPECTING STORMWATER RUNOFF SAMPLERS AND RETRIEVING SAMPLES FOR THE MSGP	44
ATTACHMENT 20: EPC-CP-QP-2106, PROCESSING MSGP STORMWATER SAMPLES	45
ATTACHMENT 21: EPC-DO-QP-101, ENVIRONMENTAL REPORTING REQUIREMENTS FOR RELEASES OR EVENTS	46
ATTACHMENT 22: EPC-CP-QP-007, SPILL INVESTIGATIONS	47
ATTACHMENT 23: EPC-CP-QP-2110, MSGP STORMWATER POLLUTION PREVENTION PLAN PREPARATION AND MAINTENANCE	48
ATTACHMENT 24: LOCAL PROCEDURE	49
ATTACHMENT 25: LOCAL PROCEDURE	50

MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance	No: EPC-CP-QP-2110	Page 17 of 72
	Revision: 0	Effective Date: 01/07/2020

Attachment 1: EPC-CP-QP-2110 R0 Form 1, MSGP SWPPP Template Example (cont.)
(Page 6 of 50)

Insert Facility Name
 MSGP Stormwater Pollution Prevention Plan
 Document Reference Number
 Revision X, Date

Insert Name of Facility
STORMWATER POLLUTION PREVENTION PLAN

PREFACE

This Stormwater Pollution Prevention Plan (SWPPP) was developed in accordance with the provisions of the Clean Water Act (33 U.S.C. §§1251 et seq., as amended), and the *United States Environmental Protection Agency (EPA) National Pollutant Discharge Elimination System (NPDES) Multi-Sector General Permit for Stormwater Discharges Associated with Industrial Activity (MSGP)* (U.S. EPA, June 2015) issued by EPA. The SWPPP uses the industry specific permit requirements for **Sector XX-(Insert Sector Title)** as a guide. The applicable stormwater discharge permit is EPA General Permit Identification Tracking Number NMR050013 [Triad National Security, LLC (Triad)]. [Click here to view contents of the 2015 Multi-Sector General Permit.](#)

This SWPPP applies to discharges of stormwater from the operational areas of **(List the operational areas)** at Los Alamos National Laboratory. Los Alamos National Laboratory (also referred to as LANL or the "Laboratory") is owned by the Department of Energy (DOE), and is operated by Triad. Throughout this document, the term "facility" refers to **(Insert facility name)**. The current MSGP expires at midnight on June 4, 2020.

1.0 FACILITY DESCRIPTION

1.1 Facility Information

Name of Facility: (Insert facility name e.g., TA-3-22 Power and Steam Plant)		
Street: P.O. Box 1663		
City: Los Alamos	State: NM	ZIP Code: 87545
County: Los Alamos		
NPDES ID (i.e., permit tracking number): NMR050013		
Primary Industrial Activity SIC code, and Sector and Subsector (2015 MSGP, Appendix D and Part 8): SIC XXXX, Sector X, Subsector XX		
Estimated area of industrial activity at site exposed to stormwater: XX acres		
Discharge Information		
Name(s) of surface water(s)/segment that receives stormwater from your facility: Sandia Canyon (Sigma Canyon to NPDES outfall 001). Note: For Roads and Grounds also add "and Mortandad Canyon (within LANL)". Note: For Asphalt Batch Plant alone, delete Sandia Canyon information and insert only "Mortandad Canyon (within LANL)."		
Does this facility discharge industrial stormwater directly into any segment of an "impaired water" (see definition in 2015 MSGP, Appendix A)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Pollutants causing the impairment: (Insert pollutants: list can be found in the Triad Notice of Intent (NOI))		

MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance	No: EPC-CP-QP-2110	Page 18 of 72
	Revision: 0	Effective Date: 01/07/2020

Attachment 1: EPC-CP-QP-2110 R0 Form 1, MSGP SWPPP Template Example (cont.)
(Page 7 of 50)

Insert Facility Name
MSGP Stormwater Pollution Prevention Plan
Document Reference Number
Revision X, 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)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
If Yes, which guidelines apply? (Note: Asphalt Batch Plant is subject to ELGs) Not applicable.

1.2 Stormwater Pollution Prevention Team (PPT)

Insert a description of the team

The specific duties of individual team members of the PPT are listed in the table below.

Staff Names	Individual Responsibilities
Group Leader: Name Title, Organization	Responsible for the management of all environmental, safety, health, and quality programs for the yards, buildings and facilities within this Plan. This includes performing oversight and periodic walk downs to ensure implementation of the requirements of the MSGP and this SWPPP including overseeing the assigned duties of other PPT members. The Group Leader is responsible for ensuring problems noted during inspections are corrected. The Group Leader must also ensure adequate resources are obtained to ensure compliance requirements of the MSGP and this SWPPP are met.
Deployed Environmental Professional (DEP): Name Title, Organization	Responsible for the management of all environmental programs and issues for the yards, buildings and facilities listed within this Plan. The DEP is responsible for training, recordkeeping, and SWPPP revision. The DEP ensures documentation of inspections and other required MSGP records relative to the SWPPP are managed in accordance with the Permit and established document control procedures and that the SWPPP is kept current. The DEP provides technical and regulatory support to facility and operations personnel regarding implementation of the MSGP and this SWPPP. Lastly, the DEP conducts routine facility inspections and if necessary, visual assessments, in accordance with the Permit. Identified conditions requiring corrective actions from routine facility inspections are entered into the Environmental Protection and Compliance-Compliance Programs (EPC-CP) Corrective Action Report (CAR) database. The DEP is responsible for tracking and updating the status of corrective actions that cannot be implemented immediately.
Facility Operations Division (FOD) Manager: Name Title, Organization	Responsible for managing the maintenance and operation of all aspects of the yards, buildings and facilities listed within this Plan. The manager shall provide review and ensure coordination with core personnel and the PPT, as appropriate, when tenants within

MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance	No: EPC-CP-QP-2110	Page 19 of 72
	Revision: 0	Effective Date: 01/07/2020

Attachment 1: EPC-CP-QP-2110 R0 Form 1, MSGP SWPPP Template Example (cont.)
(Page 8 of 50)

Insert Facility Name
MSGP Stormwater Pollution Prevention Plan
Document Reference Number
Revision X, Date

	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.

MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance	No: EPC-CP-QP-2110	Page 20 of 72
	Revision: 0	Effective Date: 01/07/2020

Attachment 1: EPC-CP-QP-2110 R0 Form 1, MSGP SWPPP Template Example (cont.)
(Page 9 of 50)

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 run-on and run-off.

2.1 Potential Pollutants Associated with Industrial Activity

List specific areas and activities that could potentially result in a release to the environment and the constituents that may be released. Include a list of any Solid Waste Management Units and Areas of Concern (also known as Consent Order Sites or Potential Release Sites) with a description of each and associated potential pollutants/contaminants.

2.2 Spills and Leaks

MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance	No: EPC-CP-QP-2110	Page 21 of 72
	Revision: 0	Effective Date: 01/07/2020

Attachment 1: EPC-CP-QP-2110 R0 Form 1, MSGP SWPPP Template Example (cont.)
(Page 10 of 50)

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.

Date	Description	Outfall(s) Affected

Insert information on areas where spills and leaks could occur at the facility. Text may be in table format as shown below.

Specific Equipment/Industrial Activity Areas and Location	Outfall(s) Affected

In the event of any future spill or leak at any of the facility areas, a spill report, documenting the occurrence and the nature of the spill or leak, will be completed. The spill report will be filed promptly upon completion and documentation of the spill clean-up, and will be summarized in this section of the SWPPP. In addition, spills within MSGP facility boundaries will be entered as conditions requiring corrective action in the MSGP CAR database and will be updated as corrective action occurs, in accordance with EPC-CP-QP-022, *MSGP Corrective Actions*.

The probability of spills or releases at the facility is minimized by (Insert information on how the facility will minimize spills and leaks).

2.3 Unauthorized Non-Stormwater Discharges

Insert information describing any NPDES permitted non-stormwater discharges, unpermitted outfalls, or unauthorized discharges associated with the facility. Describe any potential sources of non-stormwater discharges (e.g., testing of fire hydrants) and where wastewater drains to. Include a reference to the "Non-Stormwater Discharge Assessment and Certification" and indicate that it is provided in Attachment 3.

2.4 Salt Storage

Insert text describing salt storage areas at the facility, if present. If none exists, state salt is not stored at the facility.

2.5 Historical Data Summary

The following tables provide monitoring data at the facility for the past X years.

Permitted Facility: (insert facility name)

Calendar Year XXXX

Contact MSGP Program Lead to obtain this information formatted for insertion.

Note: This information will be updated every year during the annual SWPPP update, to include the 3 most current years of monitoring data.

MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance	No: EPC-CP-QP-2110	Page 22 of 72
	Revision: 0	Effective Date: 01/07/2020

Attachment 1: EPC-CP-QP-2110 R0 Form 1, MSGP SWPPP Template Example (cont.)
(Page 11 of 50)

Insert Facility Name
 MSGP Stormwater Pollution Prevention Plan
 Document Reference Number
 Revision X, Date

3.0 STORMWATER CONTROL MEASURES

Control measures at the facility are designed to minimize the potential release of pollutants that could adversely affect water quality. Insert text with stormwater control measure information.

3.1 Non-Numeric Technology-Based Effluent Limits

Insert text with non-numeric technology-based effluent limits information. Note: This is specific to Sectors A, AA, N, O and P.

3.1.1 Minimize Exposure

Insert text describing all structural controls (structures or covers) or practices used to minimize the exposure of industrial activities to precipitation. The SWPPP must describe where the controls or practices are being implemented at the facility. Examples of exposure-minimizing control measures include: location and extent of grading, berms, curbs used to contain contaminated stormwater or divert it around areas of industrial activity, materials stored within secondary containment, location of spill cleanup kits, schedule for employee spill abatement and cleanup training, procedure or practices for storage of leaky vehicles and equipment.

3.1.2 Good Housekeeping

Good housekeeping practices specifically applicable to the prevention of stormwater contamination include the following measures: Insert text describing any practices implemented to keep exposed areas at the facility clean. Describe where each practice is being implemented at the facility. Examples of good housekeeping control measures include how workspaces are maintained; routine inspections of heavy equipment, other equipment and waste containers; inspections of material storage areas; identifying specific personnel/positions responsible for emptying drip pans, etc. Refer to Section 4.1 of this document for specific schedules for waste and recyclable material pickup and sweeping.

All site areas exposed to precipitation are walked down during daily operations and monthly routine facility inspections to ensure that the grounds are kept in an orderly condition. The outdoor metal storage areas are inspected to ensure all piping and metal raw material is off the ground on storage racks and covered, or stored inside buildings, sheds or transportable containers. Vehicle and forklift parking areas are inspected for leaks or spills as well as storage areas containing oil-filled equipment. The entire site, including loading areas and outfalls, are inspected for floatable debris, garbage, waste and all other potential pollutants. All dumpsters and roll-off bins are inspected to ensure they are closed.

3.1.3 Maintenance

Control measures at the facility will be kept in effective operating condition by the implementation of scheduled preventive maintenance, standard operating procedures (SOPs), engineering guidance, and manufacturer's specifications as applicable. If control measures need to be replaced or repaired to maintain compliance with the 2015 MSGP, necessary modifications will be made according to the timelines specified in the *Corrective Action and Deadlines* requirements of Section 6.0 of this SWPPP.

Deficient items identified during routine facility inspections, walk-downs, or by any other means of identification, will be documented on the routine facility inspection forms and entered into the MSGP CAR database. The condition requiring corrective action will remain open until proper maintenance or

MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance	No: EPC-CP-QP-2110	Page 23 of 72
	Revision: 0	Effective Date: 01/07/2020

Attachment 1: EPC-CP-QP-2110 R0 Form 1, MSGP SWPPP Template Example (cont.)
(Page 12 of 50)

Insert Facility Name
 MSGP Stormwater Pollution Prevention Plan
 Document Reference Number
 Revision X, 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.

MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance	No: EPC-CP-QP-2110	Page 24 of 72
	Revision: 0	Effective Date: 01/07/2020

Attachment 1: EPC-CP-QP-2110 R0 Form 1, MSGP SWPPP Template Example (cont.)
(Page 13 of 50)

Insert Facility Name
 MSGP Stormwater Pollution Prevention Plan
 Document Reference Number
 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.

3.2 Numeric Effluent Limitations Based on Effluent Limitations Guidelines

Insert information identifying the facility as meeting or not meeting the industrial category requirements for effluent monitoring as listed in Part 2.1.3 (*Table 2-1 Applicable Effluent Limitation Guidelines*) of the 2015 MSGP and if benchmark monitoring is or is not required.

If the permit does identify sector-specific requirements for the facility, insert a description of specific controls implemented at the facility to ensure numeric effluent limits are met.

3.3 Water Quality-Based Effluent Limitations and Water Quality Standards

Impaired waters monitoring is performed annually at the facility as listed in Section 4.7 of this SWPPP. The pollutants monitored can change yearly based on the requirements of the MSGP. The table in Section 4.7 lists the current year monitoring requirements and standards.

Stormwater from (insert facility name) discharges to (insert canyon name). Insert information on canyon reaches identified as impaired waters, pollutants causing the impairment, and approved or established TMDLs for the canyon. Also, insert specific information relative to the controls measures used to ensure discharges from industrial activities meet the water quality standards.

Refer to Section 4.7 for specific actions that will be taken when a water quality standard is exceeded.

4.0 SCHEDULES AND PROCEDURES

Preventative maintenance of control measures used to comply with the Permit effluent limits can avoid situations that result in discharges to the environment. Part 5.2.5 of the 2015 MSGP specifies control measures will have a schedule or frequency for maintenance and procedures specifying how maintenance is conducted. Part 5.5 requires documentation of maintenance and repairs including the date(s) of regular maintenance. See Attachment 10 for the Scheduled Maintenance Log.

4.1 Good Housekeeping

Insert a schedule for housekeeping activities such as waste and recyclable material (scrap metal, wood tires) pickup, street sweeping, etc. and identify any procedures used to ensure this occurs.

4.2 Maintenance

Insert a discussion of and schedule for preventative or regular maintenance of equipment such as oil/water separators, culvert clean outs, other control measures, etc. Note: Industrial equipment will be

MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance	No: EPC-CP-QP-2110	Page 25 of 72
	Revision: 0	Effective Date: 01/07/2020

Attachment 1: EPC-CP-QP-2110 R0 Form 1, MSGP SWPPP Template Example (cont.)
(Page 14 of 50)

Insert Facility Name
MSGP Stormwater Pollution Prevention Plan
Document Reference Number
Revision X, Date

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:

MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance	No: EPC-CP-QP-2110	Page 26 of 72
	Revision: 0	Effective Date: 01/07/2020

Attachment 1: EPC-CP-QP-2110 R0 Form 1, MSGP SWPPP Template Example (cont.)
(Page 15 of 50)

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)

MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance	No: EPC-CP-QP-2110	Page 27 of 72
	Revision: 0	Effective Date: 01/07/2020

Attachment 1: EPC-CP-QP-2110 R0 Form 1, MSGP SWPPP Template Example (cont.)

(Page 16 of 50)

Insert Facility Name
MSGP Stormwater Pollution Prevention Plan
Document Reference Number
Revision X, Date

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

MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance	No: EPC-CP-QP-2110	Page 28 of 72
	Revision: 0	Effective Date: 01/07/2020

Attachment 1: EPC-CP-QP-2110 R0 Form 1, MSGP SWPPP Template Example (cont.)
(Page 17 of 50)

Insert Facility Name
MSGP Stormwater Pollution Prevention Plan
Document Reference Number
Revision X, Date

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

MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance	No: EPC-CP-QP-2110	Page 29 of 72
	Revision: 0	Effective Date: 01/07/2020

Attachment 1: EPC-CP-QP-2110 R0 Form 1, MSGP SWPPP Template Example (cont.)
(Page 18 of 50)

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.

MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance	No: EPC-CP-QP-2110	Page 30 of 72
	Revision: 0	Effective Date: 01/07/2020

Attachment 1: EPC-CP-QP-2110 R0 Form 1, *MSGP SWPPP Template Example* (cont.)
(Page 19 of 50)

Insert Facility Name
 MSGP Stormwater Pollution Prevention Plan
 Document Reference Number
 Revision X, Date

Summary of Monitoring Requirements

Outfalls: (insert outfall numbers)

Contact MSGP Program Lead to obtain this information formatted for insertion.

EXAMPLE

MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance	No: EPC-CP-QP-2110	Page 31 of 72
	Revision: 0	Effective Date: 01/07/2020

Attachment 1: EPC-CP-QP-2110 R0 Form 1, MSGP SWPPP Template Example (cont.)
(Page 20 of 50)

Insert Facility Name
 MSGP Stormwater Pollution Prevention Plan
 Document Reference Number
 Revision X, Date

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

MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance	No: EPC-CP-QP-2110	Page 32 of 72
	Revision: 0	Effective Date: 01/07/2020

Attachment 1: EPC-CP-QP-2110 R0 Form 1, MSGP SWPPP Template Example (cont.)
(Page 21 of 50)

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 corrective actions will exceed 45 days, EPA is notified and provided justification of why actions will exceed the timeframe; and a minimal amount of additional time to complete the work may be approved.

6.3 Corrective Action Documentation

MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance	No: EPC-CP-QP-2110	Page 33 of 72
	Revision: 0	Effective Date: 01/07/2020

Attachment 1: EPC-CP-QP-2110 R0 Form 1, MSGP SWPPP Template Example (cont.)

(Page 22 of 50)

Insert Facility Name
MSGP Stormwater Pollution Prevention Plan
Document Reference Number
Revision X, Date

Upon discovery, conditions requiring corrective action are documented by the DEP or EPC-CP on a Routine Facility Inspection Form and/or entered into the CAR database. The action will be kept open in the database until the issue has been resolved. Documentation of maintenance and repairs of stormwater control measures (BMPs) will be kept in Attachment 10 of this SWPPP. Where corrective actions result in changes to procedures or controls documented in this SWPPP, modifications to the SWPPP are made accordingly within 14 calendar days of completing the corrective action(s). LANL procedure EPC-CP-QP-022, *MSGP Corrective Actions* can be found in Attachment 17.

7.0 ACRONYMS

BMP	Best Management Practice
CAR	Corrective Action Report
DEP	Deployed Environmental Professional
DESH	Deployed Environmental Safety and Health
DOE	Department of Energy
EIS	Environmental Impact Statement
ELG	Effluent Limitation Guidelines
EMD-ER	Emergency Management Division-Emergency Response
EPA	Environmental Protection Agency
EPC-CP	Environmental Protection and Compliance – Compliance Programs
FOD	Facility Operations Division
IPaC	Information for Planning and Consultation
LANL or the Laboratory	Los Alamos National Laboratory
MSGP or Permit	Multi-Sector General Permit
NOI	Notice of Intent
NPDES	National Pollutant Discharge Elimination System
PPT	Pollution Prevention Team
SWPPP	Stormwater Pollution Prevention Plan
URL	Uniform Resource Locator

MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance	No: EPC-CP-QP-2110	Page 34 of 72
	Revision: 0	Effective Date: 01/07/2020

Attachment 1: EPC-CP-QP-2110 R0 Form 1, MSGP SWPPP Template Example (cont.)
(Page 23 of 50)

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.

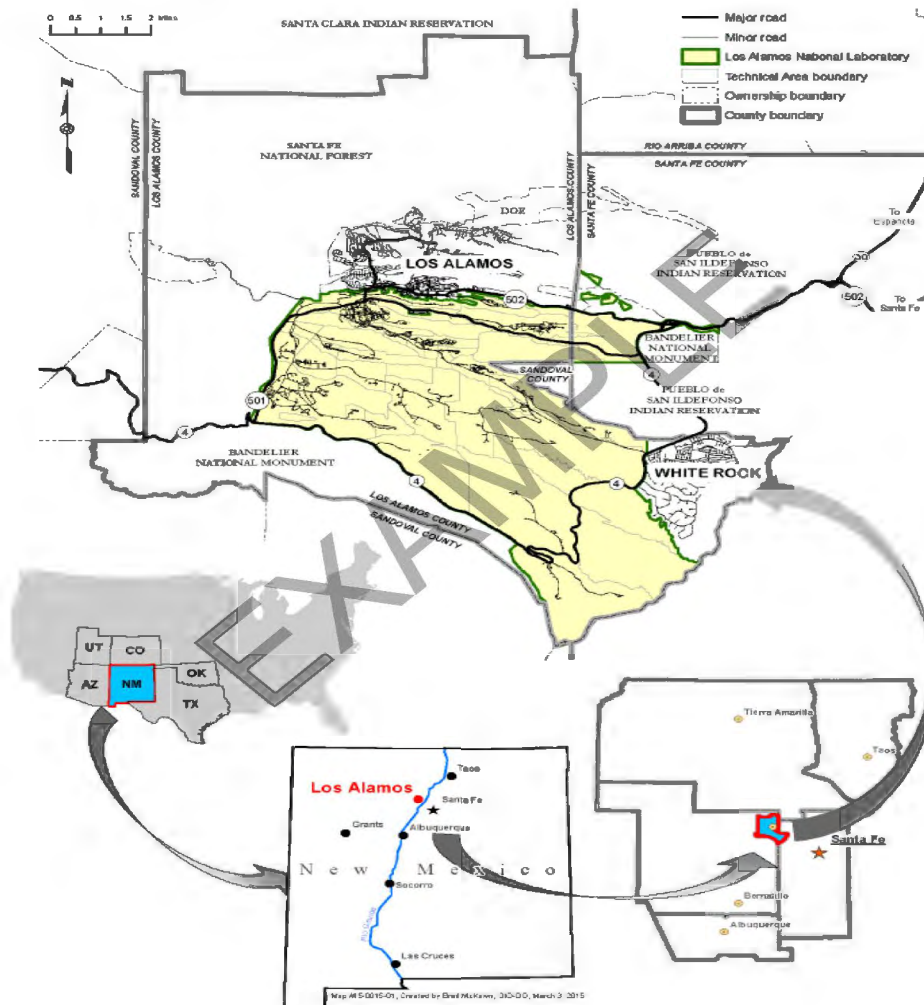
Signature _____ Date _____
 (Insert Printed Name)
 (Insert Title)

MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance	No: EPC-CP-QP-2110	Page 35 of 72
	Revision: 0	Effective Date: 01/07/2020

Attachment 1: EPC-CP-QP-2110 R0 Form 1, MSGP SWPPP Template Example (cont.)
(Page 24 of 50)

Insert Facility Name
 MSGP Stormwater Pollution Prevention Plan
 Document Reference Number
 Revision X, Date

FIGURE A: GENERAL LOCATION MAP



MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance	No: EPC-CP-QP-2110	Page 36 of 72
	Revision: 0	Effective Date: 01/07/2020

Attachment 1: EPC-CP-QP-2110 R0 Form 1, *MSGP SWPPP Template Example* (cont.)
(Page 25 of 50)

Insert Facility Name
 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

MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance	No: EPC-CP-QP-2110	Page 37 of 72
	Revision: 0	Effective Date: 01/07/2020

Attachment 1: EPC-CP-QP-2110 R0 Form 1, *MSGP SWPPP Template Example* (cont.)
(Page 26 of 50)

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

MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance	No: EPC-CP-QP-2110	Page 38 of 72
	Revision: 0	Effective Date: 01/07/2020

Attachment 1: EPC-CP-QP-2110 R0 Form 1, MSGP SWPPP Template Example (cont.)
(Page 27 of 50)

Insert Facility Name
 MSGP Stormwater Pollution Prevention Plan
 Document Reference Number
 Revision X, Date

ATTACHMENT 2: SWPPP AMENDMENTS

Insert text documenting all changes or updates made to the SWPPP. Text may be in table format as shown below.

Date	Plan Section	Reason for Amendment	Amendment

EXAMPLE

MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance	No: EPC-CP-QP-2110	Page 39 of 72
	Revision: 0	Effective Date: 01/07/2020

Attachment 1: EPC-CP-QP-2110 R0 Form 1, *MSGP SWPPP Template Example* (cont.)
(Page 28 of 50)

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.

EXAMPLE

MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance	No: EPC-CP-QP-2110	Page 40 of 72
	Revision: 0	Effective Date: 01/07/2020

Attachment 1: EPC-CP-QP-2110 R0 Form 1, *MSGP SWPPP Template Example* (cont.)
(Page 29 of 50)

Insert Facility Name
 MSGP Stormwater Pollution Prevention Plan
 Document Reference Number
 Revision X, Date

ATTACHMENT 4: DULY AUTHORIZED SIGNATORY MEMORANDUM

Insert the appropriate attachment.

EXAMPLE

MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance	No: EPC-CP-QP-2110	Page 41 of 72
	Revision: 0	Effective Date: 01/07/2020

Attachment 1: EPC-CP-QP-2110 R0 Form 1, *MSGP SWPPP Template Example* (cont.)
(Page 30 of 50)

Insert Facility Name
 MSGP Stormwater Pollution Prevention Plan
 Document Reference Number
 Revision X, Date

ATTACHMENT 5: DISCHARGE MONITORING REPORTS

Insert the discharge monitoring reports.

EXAMPLE

MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance	No: EPC-CP-QP-2110	Page 42 of 72
	Revision: 0	Effective Date: 01/07/2020

Attachment 1: EPC-CP-QP-2110 R0 Form 1, *MSGP SWPPP Template Example* (cont.)
(Page 31 of 50)

Insert Facility Name
 MSGP Stormwater Pollution Prevention Plan
 Document Reference Number
 Revision X, Date

ATTACHMENT 6: ANNUAL REPORTS

Insert the annual reports. The MSGP Program Lead provides these.

EXAMPLE

MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance	No: EPC-CP-QP-2110	Page 43 of 72
	Revision: 0	Effective Date: 01/07/2020

Attachment 1: EPC-CP-QP-2110 R0 Form 1, *MSGP SWPPP Template Example* (cont.)
(Page 32 of 50)

Insert Facility Name
 MSGP Stormwater Pollution Prevention Plan
 Document Reference Number
 Revision X, Date

ATTACHMENT 7: ROUTINE FACILITY INSPECTIONS

Insert completed Routine Facility Inspection forms.

EXAMPLE

MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance	No: EPC-CP-QP-2110	Page 44 of 72
	Revision: 0	Effective Date: 01/07/2020

Attachment 1: EPC-CP-QP-2110 R0 Form 1, *MSGP SWPPP Template Example* (cont.)
(Page 33 of 50)

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.

EXAMPLE

MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance	No: EPC-CP-QP-2110	Page 45 of 72
	Revision: 0	Effective Date: 01/07/2020

Attachment 1: EPC-CP-QP-2110 R0 Form 1, MSGP SWPPP Template Example (cont.)
(Page 34 of 50)

Insert Facility Name
 MSGP Stormwater Pollution Prevention Plan
 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.

EXAMPLE

MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance	No: EPC-CP-QP-2110	Page 47 of 72
	Revision: 0	Effective Date: 01/07/2020

Attachment 1: EPC-CP-QP-2110 R0 Form 1, *MSGP SWPPP Template Example* (cont.)
(Page 36 of 50)

Insert Facility Name
 MSGP Stormwater Pollution Prevention Plan
 Document Reference Number
 Revision X, Date

ATTACHMENT 11: TRAINING DOCUMENTATION

Insert the appropriate documentation.

EXAMPLE

MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance	No: EPC-CP-QP-2110	Page 48 of 72
	Revision: 0	Effective Date: 01/07/2020

Attachment 1: EPC-CP-QP-2110 R0 Form 1, MSGP SWPPP Template Example (cont.)
(Page 37 of 50)

Insert Facility Name
 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

MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance	No: EPC-CP-QP-2110	Page 49 of 72
	Revision: 0	Effective Date: 01/07/2020

Attachment 1: EPC-CP-QP-2110 R0 Form 1, *MSGP SWPPP Template Example* (cont.)
(Page 38 of 50)

Insert Facility Name
 MSGP Stormwater Pollution Prevention Plan
 Document Reference Number
 Revision X, Date

**ATTACHMENT 13: THREATENED AND ENDANGERED SPECIES HABITAT MANAGEMENT PLAN FOR
LOS ALAMOS NATIONAL LABORATORY**

Insert the most current revision of the management plan for LANL.

EXAMPLE

MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance	No: EPC-CP-QP-2110	Page 50 of 72
	Revision: 0	Effective Date: 01/07/2020

Attachment 1: EPC-CP-QP-2110 R0 Form 1, MSGP SWPPP Template Example (cont.)
(Page 39 of 50)

Insert Facility Name
 MSGP Stormwater Pollution Prevention Plan
 Document Reference Number
 Revision X, Date

ATTACHMENT 14: MSGP IPAC TRUST RESOURCES REPORT

Contact the EPC-CP MSGP Program Lead for this information formatted for insertion.

NOTE: The Permit requires this information. However, LANL EPC-ES has completed consultation with U.S. Fish and Wildlife Service. Letters of Consultation are contained in the NOI (see Attachment 1). Refer to Attachment 13 for the species habitat management plan.

EXAMPLE

MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance	No: EPC-CP-QP-2110	Page 51 of 72
	Revision: 0	Effective Date: 01/07/2020

Attachment 1: EPC-CP-QP-2110 R0 Form 1, *MSGP SWPPP Template Example* (cont.)
(Page 40 of 50)

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.

EXAMPLE

MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance	No: EPC-CP-QP-2110	Page 52 of 72
	Revision: 0	Effective Date: 01/07/2020

Attachment 1: EPC-CP-QP-2110 R0 Form 1, *MSGP SWPPP Template Example* (cont.)
(Page 41 of 50)

Insert Facility Name
 MSGP Stormwater Pollution Prevention Plan
 Document Reference Number
 Revision X, Date

ATTACHMENT 16: EPC-CP-QP-023, *MSGP ROUTINE FACILITY INSPECTIONS*

Insert the appropriate procedure or parts of the procedure that pertain to this SWPPP. Ensure the most current revision of this procedure is inserted.

EXAMPLE

MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance	No: EPC-CP-QP-2110	Page 53 of 72
	Revision: 0	Effective Date: 01/07/2020

Attachment 1: EPC-CP-QP-2110 R0 Form 1, MSGP SWPPP Template Example (cont.)
(Page 42 of 50)

Insert Facility Name
 MSGP Stormwater Pollution Prevention Plan
 Document Reference Number
 Revision X, Date

ATTACHMENT 17: EPC-CP-QP-022, *MSGP CORRECTIVE ACTIONS*

Insert the appropriate procedure or parts of the procedure that pertain to this SWPPP. Ensure the most current revision of this procedure is inserted.

EXAMPLE

MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance	No: EPC-CP-QP-2110	Page 54 of 72
	Revision: 0	Effective Date: 01/07/2020

Attachment 1: EPC-CP-QP-2110 R0 Form 1, MSGP SWPPP Template Example (cont.)
(Page 43 of 50)

Insert Facility Name
 MSGP Stormwater Pollution Prevention Plan
 Document Reference Number
 Revision X, Date

ATTACHMENT 18: EPC-CP-QP-064, MSGP STORMWATER VISUAL ASSESSMENTS

Insert the appropriate procedure or parts of the procedure that pertain to this SWPPP. Ensure the most current revision of this procedure is inserted.

EXAMPLE

MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance	No: EPC-CP-QP-2110	Page 55 of 72
	Revision: 0	Effective Date: 01/07/2020

Attachment 1: EPC-CP-QP-2110 R0 Form 1, MSGP SWPPP Template Example (cont.)
(Page 44 of 50)

Insert Facility Name
 MSGP Stormwater Pollution Prevention Plan
 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.

EXAMPLE

MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance	No: EPC-CP-QP-2110	Page 56 of 72
	Revision: 0	Effective Date: 01/07/2020

Attachment 1: EPC-CP-QP-2110 R0 Form 1, MSGP SWPPP Template Example (cont.)
(Page 45 of 50)

Insert Facility Name
 MSGP Stormwater Pollution Prevention Plan
 Document Reference Number
 Revision X, Date

ATTACHMENT 20: EPC-CP-QP-2106, PROCESSING MSGP STORMWATER SAMPLES

Insert the appropriate procedure or parts of the procedure that pertain to this SWPPP. Ensure the most current revision of this procedure is inserted.

EXAMPLE

MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance	No: EPC-CP-QP-2110	Page 57 of 72
	Revision: 0	Effective Date: 01/07/2020

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.

EXAMPLE

MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance	No: EPC-CP-QP-2110	Page 58 of 72
	Revision: 0	Effective Date: 01/07/2020

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

MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance	No: EPC-CP-QP-2110	Page 59 of 72
	Revision: 0	Effective Date: 01/07/2020

Attachment 1: EPC-CP-QP-2110 R0 Form 1, MSGP SWPPP Template Example (cont.)
(Page 48 of 50)

Insert Facility Name
 MSGP Stormwater Pollution Prevention Plan
 Document Reference Number
 Revision X, Date

ATTACHMENT 23: EPC-CP-QP-2110, MSGP STORMWATER POLLUTION PREVENTION PLAN PREPARATION AND MAINTENANCE

Insert the appropriate procedure or parts of the procedure that pertain to this SWPPP. Ensure the most current revision of this procedure is inserted.

EXAMPLE

MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance	No: EPC-CP-QP-2110	Page 60 of 72
	Revision: 0	Effective Date: 01/07/2020

Attachment 1: EPC-CP-QP-2110 R0 Form 1, *MSGP SWPPP Template Example* (cont.)
(Page 49 of 50)

Insert Facility Name
 MSGP Stormwater Pollution Prevention Plan
 Document Reference Number
 Revision X, Date

ATTACHMENT 24: LOCAL PROCEDURE

Insert the appropriate procedure or parts of the procedure that pertain to this SWPPP. If this section is used, ensure the most current revision of the attached procedure is inserted. Delete section if not needed.

EXAMPLE

MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance	No: EPC-CP-QP-2110	Page 61 of 72
	Revision: 0	Effective Date: 01/07/2020

Attachment 1: EPC-CP-QP-2110 R0 Form 1, *MSGP SWPPP Template Example* (cont.)
(Page 50 of 50)

Insert Facility Name
 MSGP Stormwater Pollution Prevention Plan
 Document Reference Number
 Revision X, Date

ATTACHMENT 25: LOCAL PROCEDURE

Insert the appropriate procedure or parts of the procedure that pertain to this SWPPP. If this section is used, ensure the most current revision of the attached procedure is inserted. Delete section if not needed.

EXAMPLE

MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance	No: EPC-CP-QP-2110	Page 62 of 72
	Revision: 0	Effective Date: 01/07/2020

Attachment 2: MSGP SWPPP Review Guidance Checklist Example
(Page 1 of 11)

MSGP SWPPP Review Guidance Checklist

SWPPP Title _____

REQUIREMENT	YES/NO	NOTES
Stormwater Pollution Prevention Team		
Is the SWPPP being developed or updated by a qualified person?		
Does the SWPPP list Stormwater Pollution Prevention Team members (by name or title) and each individual's responsibilities?		
Is a copy of the SWPPP immediately available at the site and on-line?		
Contents of the SWPPP		
If the SWPPP refers to procedures or other documents, are copies of the relevant portions of these procedures or documents present in the SWPPP?		
Site Description		
Does the SWPPP include the following information?		
• Identify a description of the nature of the industrial activities at the site		
Provide a general location map (e.g., U.S. Geological Survey (USGS) quadrangle map) with enough detail to identify the location of the site and all receiving waters for industrial stormwater discharges.		
Site map showing the following:		
• Boundaries of the property and size of the property in acres		
• Location and extent of significant structures and impervious surfaces		
• Direction(s) of stormwater flow (using arrows)		
• Locations of all stormwater control measures		
• Locations of all receiving waters, including wetlands, in the immediate vicinity of the site. Indicate which water bodies are listed as impaired and which are identified as Tier 2, Tier 2.5, or Tier 3 waters (for LANL, none)		
• Locations of all stormwater conveyances including ditches, pipes, and swales		
• Locations of potential pollutant sources associated with each industrial activity (see Part 5.2.3.2) that could be exposed to rainfall or snowmelt and could be discharged from the site.		
• Locations where significant spills or leaks have occurred (see Part 5.2.3.3)		
• Location(s) of all stormwater monitoring points		
• Location of each stormwater inlet and outfall, with a unique identification code for each outfall (i.e., 001, 002, 003, etc.), indicating if you are treating one or more outfalls as "substantially identical" (see Parts 3.2.3, 5.2.5.3, and 6.1.1)		
• If applicable, location of the MS4 and where your stormwater discharges to it. NOTE: Although LANL does not currently have an MS4, EPA has published a draft permit.		
• Areas of designated critical habitat for endangered or threatened species		
• Locations of the following activities where such activities are exposed to precipitation:		

MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance	No: EPC-CP-QP-2110	Page 63 of 72
	Revision: 0	Effective Date: 01/07/2020

Attachment 2: MSGP SWPPP Review Guidance Checklist Example (cont.)
(Page 2 of 11)

MSGP SWPPP Review Guidance Checklist

REQUIREMENT	YES/NO	NOTES
- Fueling station(s)		
- Vehicle and equipment maintenance and/or cleaning area		
- Loading/unloading areas		
- Locations used for the treatment, storage, or disposal of wastes		
- Liquid storage tanks		
- Processing and storage areas		
- Immediate access roads used by carriers of raw materials, manufactured products, waste material, or by-products used or created by the site		
- Transfer areas for substances in bulk		
- Machinery		
- Locations and sources of run-on to the site from adjacent property that contains significant quantities of pollutants		
Potential Pollutant Sources		
Are areas described in the SWPPP where industrial material or activities are exposed to stormwater or from which allowable non-stormwater discharges originate? <i>NOTE 1: Industrial material or activities include material handling equipment or activities; industrial machinery; raw material; industrial production and processes; and intermediate products; by-products; final products, and waste products. Material handling activities include the storage, loading and unloading, transportation, disposal or conveyance of any raw material, intermediate product, final product or waste product.</i>		
Are all pollutants or pollutant constituents (e.g., zinc, sulfuric acid, cleaning solvents, motor oil, diesel, gasoline, brake fluid, etc.) associated with each activity identified? <i>NOTE 2: The list must include all pollutants/materials that have been handled, treated, stored, or disposed and that have been exposed to stormwater in the three years prior to the date the SWPPP is prepared or amended.</i>		
Are areas where potential spills and leaks could occur that could contribute pollutants to stormwater discharges and the corresponding outfall(s) that would be affected by such spills and leaks identified in the SWPPP?		
Are all significant spills and leaks of oil or toxic or hazardous substances identified that actually occurred at exposed areas, or that drained to a stormwater conveyance, in the three years prior to the date the SWPPP was prepared or amended?		
Has an evaluation for the presence of unauthorized non-stormwater discharges (see Part 1.1.3) been done and does it include the following information?		
• Date of the evaluation		
• A description of the evaluation criteria used		
• A list of the outfall or onsite drainages points that were directly observed during the evaluation		

MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance	No: EPC-CP-QP-2110	Page 64 of 72
	Revision: 0	Effective Date: 01/07/2020

Attachment 2: MSGP SWPPP Review Guidance Checklist Example (cont.)

(Page 3 of 11)

MSGP SWPPP Review Guidance Checklist

REQUIREMENT	YES/NO	NOTES
<ul style="list-style-type: none"> The action(s) taken, such as a list of control measures used to eliminate unauthorized discharge(s), or documentation that a floor drain was sealed, re-routed to sanitary, or an NPDES permit application was submitted for an unauthorized cooling water discharge. 		
Is there documentation of the location of any salt storage piles used for deicing or other commercial or industrial purposes?		
Is all stormwater discharge sampling data collected at the site during the precious permit term summarized in a narrative description? This may include data tables and figures.		
Control Measures to Meet Effluent Limits		
Does the SWPPP indicate whether the following control measure selection and design criteria were considered?		
<ul style="list-style-type: none"> Preventing stormwater from coming into contact with polluting materials is generally more effective, and less costly, than trying to remove pollutants from stormwater 		
<ul style="list-style-type: none"> Using control measures in combination which may be more effective than using control measures in isolation for minimizing pollutants in stormwater discharge 		
<ul style="list-style-type: none"> Assessing the type and quantity of pollutants, including their potential to impact receiving water quality, is critical to designing effective control measures that will achieve the limits in this permit 		
<ul style="list-style-type: none"> Minimizing impervious areas at the facility and infiltrating runoff onsite (including bio-retention cells, green roofs, and impervious pavement, among other approaches) can reduce runoff and improve ground water recharge and stream base flows in local streams, although care must be taken to avoid ground water contamination 		
<ul style="list-style-type: none"> Attenuating flow using open vegetated swales and natural depressions can reduce in-stream impacts of erosive flows 		
<ul style="list-style-type: none"> Conserving and/or restoring riparian buffers will help protect streams from stormwater runoff and improve water quality 		
<ul style="list-style-type: none"> Using treatment interceptors (e.g., swirl separators and sand filters) may be appropriate in some instances to minimize the discharge of pollutants. 		
Does the SWPPP indicate how the control measure addresses the potential pollutant sources?		
Are the selection and design considerations for control measures to meet the following non-numeric technology-based effluent limits (see Part 2.1.2) identified in the SWPPP?		
<ul style="list-style-type: none"> Minimize Exposure: All manufacturing, processing and material storage areas (including loading and unloading, storage, disposal, cleaning, maintenance, and fueling operations) must have controls that minimize exposure to pollutant discharges by either locating these industrial materials and activities inside or protecting them with storm resistant coverings. 		
<ul style="list-style-type: none"> Use grading, berming or curbing to prevent runoff of contaminated flows and divert run-on away from these areas; 		

MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance	No: EPC-CP-QP-2110	Page 65 of 72
	Revision: 0	Effective Date: 01/07/2020

Attachment 2: MSGP SWPPP Review Guidance Checklist Example (cont.)
(Page 4 of 11)

MSGP SWPPP Review Guidance Checklist

REQUIREMENT	YES/NO	NOTES
- Locate materials, equipment, and activities so that potential leaks and spills are contained or able to be contained or diverted before discharge;		
- Clean up spills and leaks promptly using dry methods (e.g., absorbents) to prevent the discharge of pollutants;		
- Store leaky vehicles and equipment indoors or, if stored outdoors, use drip pans and absorbents;		
- Use spill overflow protection equipment;		
- Perform all vehicle and/or equipment cleaning operations indoors, under cover, or in bermed areas that prevent runoff and run-on and also that capture any overspray; and		
- Drain fluids from equipment and vehicles that will be decommissioned, and, for any equipment and vehicles that will remain unused for extended periods of time, inspect at least monthly for leaks.		
• Good housekeeping (all areas where potential pollutants are exposed to stormwater must be kept clean).		
- Sweep or vacuum at regular intervals or wash down the area and collect and/or treat and properly dispose of the wash down water.		
- Store materials in appropriate containers.		
- Keep all dumpster lids closed when not in use. For dumpsters and roll off boxes that do not have lids and could leak, ensure that discharges have a control (e.g., secondary containment). Part 1.1.3 of the permit does not authorize dry weather discharges from dumpsters or roll off boxes.*		
* You may include extra information, or you may just "cut-and-paste" the effluent limits verbatim into the SWPPP w/out providing additional documentation.		
- Minimize the potential for waste, garbage, and floatable debris to be discharged by keeping exposed areas free of such materials.		
• Maintenance (All industrial equipment, systems and control measures must be maintained in effective operating condition in order to minimize pollutant discharges).		
Perform inspections and preventive maintenance of stormwater drainage, source controls, treatment systems, and plant equipment and systems that could fail and result in contamination of stormwater.		
- Diligently maintain non-structural control measures (e.g., keep spill response supplies available, and personnel appropriately trained).		
- Inspect and maintain baghouses at least quarterly to prevent the escape of dust from the system and immediately removing any accumulated dust at the base of the exterior baghouse.*		
- Cleaning catch basins when the depth of debris reached two thirds (2/3) of the sump depth and keeping the debris surface at least six inches below the lowest outlet pipe.*		
Does the SWPPP contain language indicating immediate action must be taken to minimize pollutant discharges if control measures need routine maintenance?		
Is there language in the SWPPP indicating in instances where control measures need repair or replacement that the facility (or associated representatives thereof) must immediately take all		

MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance	No: EPC-CP-QP-2110	Page 66 of 72
	Revision: 0	Effective Date: 01/07/2020

Attachment 2: MSGP SWPPP Review Guidance Checklist Example (cont.)

(Page 5 of 11)

MSGP SWPPP Review Guidance Checklist

REQUIREMENT	YES/NO	NOTES
reasonable steps (see Part 4.3.1 for definition) to prevent or minimize the discharge of pollutants until the final repair or replacement is implemented, including cleaning up any contaminated surfaces so that the material will not be discharged during subsequent storm events. Final repairs/replacement of stormwater controls should be completed as soon as feasible but must be no later than the timeframes established in Part 4.3 for corrective actions, i.e., within 14 days or, if that is infeasible, within 45 days.		
Is there language in the SWPPP indicating corrective action must be taken (in accordance with Part 4.0) if a control measure was never installed, was installed incorrectly or not in accordance with Parts 2 and/or 8, or isn't being properly operated or maintained?		
<ul style="list-style-type: none"> • Spill Prevention and Response - The potential for leaks, spills, and other release must be minimized by the development of plans for effective response to such spills if or when they occur in order to minimize pollutant discharges. 		
- Plainly label containers (e.g., "Used Oil," "Spent Solvents," "Fertilizers and Pesticides") that could be susceptible to spillage or leakage to encourage proper handling and facilitate rapid response if spills or leaks occur:*		
- Implement procedures for material storage and handling including use of secondary containment and barriers between material storage and traffic areas.		
- Develop training on the procedures for expeditiously stopping, containing, and cleaning up leaks, spills, and other releases as soon as possible.		
- Keep spill kits on-site, located near areas where spills may occur or where a rapid response can be made		
- Notify appropriate facility personnel when a leak, spill, or other release occurs. Where a leak, spill or other release containing a hazardous substance or oil in an amount equal to or in excess of a reportable quantity established under either 40 CFR Part 110, 40 CFR Part 117, or 40 CFR part 302, occurs during a 24-hour period, you must notify the National Response Center (NRC) at (800) 424-8802 in accordance with the above referenced requirements as soon as you have knowledge of the discharge.		
- In the event of a spill, does the SWPPP indicate where the contact information is so that it is readily accessible and available?		
<ul style="list-style-type: none"> • Erosion and Sediment Controls 		
- Does the SWPPP identify how exposed soils will be stabilized to minimize pollutant discharges?		
- Does the SWPPP identify flow velocity dissipation devices placed at discharge locations to minimize channel and streambank erosion and scour in the immediate vicinity of discharge points?		
- Does the SWPPP identify structural and non-structural control measure to minimize the discharge of sediment?		

MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance	No: EPC-CP-QP-2110	Page 67 of 72
	Revision: 0	Effective Date: 01/07/2020

Attachment 2: MSGP SWPPP Review Guidance Checklist Example (cont.)
(Page 6 of 11)

MSGP SWPPP Review Guidance Checklist

REQUIREMENT	YES/NO	NOTES
- If polymers and/or other chemical treatments are used for dust control or stabilization, does the SWPPP must identify the polymers and/or chemicals used and the purpose?		
• Management of Runoff - Does the SWPPP identify how stormwater runoff is diverted, infiltrated, reused, contained, or otherwise reduced to minimize pollutants in the discharge?		
• Salt Storage Piles or Piles Containing Salt - Does the SWPPP identify how salt piles are enclosed or covered?		
- Are controls in place to minimize exposure to stormwater resulting from adding to or removing materials from the salt pile?		
• Non-Stormwater Discharges - Does the SWPPP indicate that personnel will evaluate the site for non-stormwater discharges not explicitly authorized in Part 1.1.3 or covered by another NPDES permit and eliminate the discharge?)		
• Dust Generation and Vehicle Tracking of Industrial Materials - Does the SWPPP indicate dust generation and off-site tracking of raw, final, or waste materials must be minimized in order to minimize pollutant discharges?)		
Control Measures to Meet Numeric Effluent Limitations Guidelines-Based Limits (see Part 2.1.3 and Part 8)		
Are effluent limitations identified for the Sector D facility (Asphalt Paving) (see Part 8.D.4)?		
Are effluent limitations identified for the Sector A facility (Timber Products) (see Part 8.A.7)?		
Control Measures to Meet Water Quality Based Effluent Limits (see Part 2.2 and Part 9.6.2)		
Are the benchmark values (i.e., the Lowest New Mexico Water Quality Standard) listed in MSGP Section 9.6.2.1 identified in the SWPPP?		
Schedules and Procedures - Control Measures		
Does the SWPPP contain a schedule or convention used for determining when pickup or disposal of waste materials occurs?		
Are preventative maintenance procedures (including regular inspections, testing, maintenance and repair) for all control measures included in the SWPPP to avoid situations that may result in leaks, spills, and other releases?		
Are backup practices in place should a runoff event occur while a control measure is off line?		
Is there a schedule or frequency for maintaining all control measures?		
Are procedures included in the SWPPP for preventing and responding to spills and leaks, including notification procedures?		
Are control measures for material handling and storage identified?		
Are clean-up equipment, procedures and spill logs (i.e., reportable and non-reportable spill reports and the MSGP Corrective Action Reporting database) identified?		
Schedules and Procedures - Employee Training		
Are the following employees identified as requiring training?		

MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance	No: EPC-CP-QP-2110	Page 68 of 72
	Revision: 0	Effective Date: 01/07/2020

Attachment 2: MSGP SWPPP Review Guidance Checklist Example (cont.)

(Page 7 of 11)

MSGP SWPPP Review Guidance Checklist

REQUIREMENT	YES/NO	NOTES
• Personnel who are responsible for the design, installation, maintenance and/or repair of controls (including pollution prevention measures)		
• Personnel responsible for the storage and handling of chemicals and materials that could become contaminants in stormwater discharges		
• Personnel who are responsible for conducting and documenting monitoring and inspections		
• Personnel who are responsible for taking and documenting corrective actions.		
Are the following identified as elements of required training?		
• An overview of what is in the SWPPP		
• Spill response procedures, good housekeeping, maintenance requirements, and material management practices		
• The location of all controls on the site required by this permit and how they are to be maintained		
• The proper procedures to follow with respect to the permit's pollution prevention requirements		
• When and how to conduct inspections, record applicable findings, and take corrective actions		
Are the following elements of the training plan documented in the SWPPP?		
• Content of the training		
• Frequency/schedule of training		
Are records of completed training kept in the SWPPP?		
Schedules and Procedures - Inspections and Assessments		
Is the procedure identified for conducting routine facility inspections?		
Is the procedure identified for conducting visual assessments?		
For each type of inspection performed (i.e., routine inspection and visual assessments) does the SWPPP identify the person (s) or positions of person(s) responsible for the inspection?		
Does the SWPPP contain an alternative schedule for conducting visual assessments in climates with irregular stormwater runoff discharges (see Part 3.2.3)?		
Are specific items to be covered by the inspection, including schedules for specific outfalls identified in the SWPPP?		
Is the facility claiming an exception as an inactive and unstaffed site? If yes, the facility must include information in the SWPPP that supports this claim as required by Parts 3.1.1, 3.2.3, 6.2.1.3 and 6.2.4.2. That is, the SWPPP must contain a signed certification indicating that there are no industrial materials or activities exposed to precipitation at the site and the NOI must be modified and re-certified.		
Schedules and Procedures - Monitoring		
Does the SWPPP contain documentation of procedures used to conduct benchmark, effluent limitations guidelines and impaired waters monitoring?		
Are locations where samples are collected, including any determination that two or more outfalls are substantially identical, in the SWPPP?		
Are parameters for sampling and the frequency of sampling for each parameter listed?		

MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance	No: EPC-CP-QP-2110	Page 69 of 72
	Revision: 0	Effective Date: 01/07/2020

Attachment 2: MSGP SWPPP Review Guidance Checklist Example (cont.)

(Page 8 of 11)

MSGP SWPPP Review Guidance Checklist

REQUIREMENT	YES/NO	NOTES
Does the SWPPP contain schedules for monitoring at the facility, including a schedule for alternate monitoring periods for climates with irregular stormwater runoff (see Part 6.1.6)?		
Are numeric control values (benchmark, effluent limitations guidelines, water quality standards) applicable to discharges from each outfall identified?		
Does the SWPPP list procedures for gathering storm event data (see Part 6.1)?		
Schedules and Procedures - Substantially Identical Outfalls (SIOs)		
Does the SWPPP contain the following relative to SIOs?		
• Location of each of the substantially identical outfalls		
• Description of the general industrial activities conducted in the drainage area of each outfall		
• Description of the control measures implemented in the drainage area of each outfall		
• Description of the exposed material located in the drainage area of each outfall that are likely to be significant contributors of pollutants to stormwater discharges		
• An estimate of the runoff coefficient of the drainage areas (low = under 40%, medium = 40% to 65%, high = above 65%)		
• Justification as to why the outfalls are expected to discharge substantially identical effluents		
Do Substantially Identical Outfalls identified on the SWPPP map match those identified in MDMRs?		
Is there language indicating quarterly visual assessments of substantially identical outfalls will be performed on a rotating basis throughout the permit term?		
Is there language indicating quarterly visual assessment of the discharge at one SIO will also apply to the other SIOs?		
Corrective Action Documentation - If an event triggering corrective action is associated with an SIO, did the review of the need for action encompass all related substantially identical outfalls?		
Documentation		
Does the SWPPP contain the following up-to-date and complete inspection, monitoring, and certification records?		
• Copy of NOI submitted to EPA along with any correspondence exchanged between the facility and EPA specific to coverage under this permit.		
• Copy of the acknowledgement you receive from the EPA assigning your NPDES ID.		
• Copy of the MSGP Permit (an electronic copy easily available to SWPPP personnel is also acceptable).		
• Documentation of maintenance and repairs of control measures, including the date(s) of regular maintenance, date(s) of discovery of areas in need of repair/replacement, and for repairs, date(s) that the control measure(s) returned to full function, and the justification for any extended maintenance/repair schedules (See Part 2.1.2.3).		
• All inspection reports, including the Routine Facility Inspection Reports (see Part 3.1.2) and Quarterly Visual Assessment Reports (see Part 3.2.2).		

MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance	No: EPC-CP-QP-2110	Page 70 of 72
	Revision: 0	Effective Date: 01/07/2020

Attachment 2: MSGP SWPPP Review Guidance Checklist Example (cont.)

(Page 9 of 11)

MSGP SWPPP Review Guidance Checklist

REQUIREMENT	YES/NO	NOTES
• Description of any deviations from the schedule for visual assessments and/or monitoring, and the reason for the deviations (e.g., adverse weather or it was impracticable to collect samples within the first 30 minutes of a measurable storm event) (see Parts 3.2.3 and 6.1.5)		
• Corrective action documentation (see Part 4.4)		
• Documentation of any benchmark exceedances and the type of response to the exceedance employed including the following:		
- The corrective action taken;		
- A finding that the exceedance was due to natural background pollutant levels;		
- A determination from EPA that benchmark monitoring can be discontinued because the exceedance was due to run-on; OR		
- A finding that no further pollutant reductions were technologically available and economically practicable and achievable in light of best industry practice consistent with Part 6.2.1.2		
• Documentation to support any determination that pollutants of concern are not expected to be present above natural background levels if you discharge directly to impaired waters and that such pollutants were not detected in your discharge or were solely attributable to natural background sources. (see Part 6.2.4.1)		
• Documentation supporting that stormwater discharges, allowable non-stormwater discharges, and stormwater discharge-related activities are not likely to adversely affect any species that are federally listed as endangered or threatened ("listed") and are not likely to adversely affect habitat that is designated as "critical habitat" under the Endangered Species Act (see Part 1.1.4.5).		
• Documentation supporting the determination that stormwater discharges, allowable non-stormwater discharges, and stormwater discharge-related activities meet one of the eligibility criteria for historic property preservation (Criterion A, B, C or D) (see Part 1.1.4.6).		
• All Discharge Monitoring Reports and Annual Reports		
• Support for claim that facility has changed its status from active to inactive and is unstaffed with respect to the requirements to conduct routine facility inspections, quarterly visual assessments, benchmark monitoring, and/or impaired waters monitoring.		
Is the SWPPP signed and dated by a duly authorized representative (per Part B.11)?		
Is the Annual Report signed by a duly authorized representative (per Part B.11)?		
SWPPP Modifications		
Where a corrective action triggers a change in any of the control measures or procedures, has the SWPPP been updated within 14 calendar days of completing the corrective action (see Part 4.4)?		
Are SWPPP modifications signed and dated by a duly authorized representative?		
Has the SWPPP been reviewed and does documentation exist as to the modifications made or why none were needed under the following circumstances?		

MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance	No: EPC-CP-QP-2110	Page 71 of 72
	Revision: 0	Effective Date: 01/07/2020

Attachment 2: MSGP SWPPP Review Guidance Checklist Example (cont.)

(Page 10 of 11)

MSGP SWPPP Review Guidance Checklist

REQUIREMENT	YES/NO	NOTES
• An unauthorized release or discharge (e.g., spill leak, or discharge of non-stormwater not authorized by this or another NPDES permit to a water of the U.S.) occurs at your facility.		
• A discharge violates a numeric effluent limit listed in Table 2-1 and in the sector specific requirements.		
• The control measures are not stringent enough for the discharge to meet applicable water quality standards or the non-numeric effluent limits in this permit.		
• A required control measure was never installed, was installed incorrectly, or not in accordance with Parts 2 and/or 8, or is not being properly operated or maintained.		
• Whenever a visual assessment shows evidence of stormwater pollution (e.g., color, odor, floating solids, settled solids, suspended solids, foam).		
• 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.		
• The average of four quarterly sampling results exceeds an applicable benchmark (see Part 6.2.1.2). If less than four benchmark samples have been taken, but the results are such that an exceedance of the four quarter average is mathematically certain (i.e., the sum of quarterly sample results to date is more than four times the benchmark level) this is considered a benchmark exceedance.		
Public Accessibility of SWPPP		
Is your SWPPP uploaded to the URL provided in the NOI?		
Are subsequent SWPPP modifications (updates), records and all other reporting elements required for the previous year updated no later than 45 days after conducting the final routine facility inspection for the year?		
If you did not upload your SWPPPs to a URL, was the following information provided in the NOI and documented in the SWPPP?		
• 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);		
• 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)		
• Stormwater control measures employed to comply with the non-numeric technology-based effluent limits required in Part 2.1.2 and Part 8, and any other measures taken to comply with the requirements in Part 2.2, Water Quality Based Effluent Limitations. If polymers and/or other chemical treatments are used as controls, these must be identified and the purpose explained.		
• The schedule for good housekeeping, maintenance, and schedule for all inspections required in Part 3.		

MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance	No: EPC-CP-QP-2110	Page 72 of 72
	Revision: 0	Effective Date: 01/07/2020

Attachment 2: MSGP SWPPP Review Guidance Checklist Example (cont.)

(Page 11 of 11)

MSGP SWPPP Review Guidance Checklist

REQUIREMENT	YES/NO	NOTES
Are modifications to the SWPPP information required in the four bullets above submitted on a "Change NOI" form no later than 45 days after conducting the final routine facility inspection for the year?		
Corrective Actions		
Are corrective actions documented within 24 hours of becoming aware of such condition?		
Is the condition triggering the need for the corrective action identified?		
Is the date the corrective action was identified captured?		
Was immediate action taken to minimize or prevent the discharge of pollutants?		
In the case of leaks and spills, were response actions, date/time of clean up, notification, etc. documented?		

**ATTACHMENT 24: WFO-IWD-0016, SPILL RESPONSE AND CLEAN UP IN WEAPONS FACILITIES
OPERATIONS (WFO) AREAS**



Document Number:	WFO-IWD-0016
Revision:	H

Spill Response and Clean Up in Weapons Facilities Operations (WFO) Areas

Effective Date: 02/25/2022		Expiration Date(Maximum 3 years): 02/25/2025	
Hazard Category	<input type="checkbox"/> High/Complex	<input checked="" type="checkbox"/> Moderate	<input type="checkbox"/> Low
Standing IWD?	<input checked="" type="checkbox"/> Yes (one Pre-Job Brief. If High/Complex hazard, Pre-Job brief required for each evolution)		<input type="checkbox"/> No
Annual 2101 and 2102 REVIEW DUE DATE: 09/01/2023		DATE ANNUAL REVIEW CONDUCTED: 09/29/2022	

Reviewed and Approved for Use By:

	Printed Name	Z#	Org	Signature	Date
Person in Charge (PIC)	Kelkenny Bileen	178009	EPC-CP	Kelkenny Bileen	Digitally signed by Kelkenny Bileen Date: 2022.02.07 10:56:11 -07'00'
Peer Reviewer	Robert Kyser Bruce Dahlquist	099925 234968	OSH-DS	ROBERT KYSER (Affiliate)	Digitally signed by ROBERT KYSER (Affiliate) Date: 2022.02.07 14:58:18 -07'00'
Responsible Line Manager	Steven Story	112890	EPC-CP	STEVEN STORY (Affiliate)	Digitally signed by STEVEN STORY (Affiliate) Date: 2022.02.10 15:02:32 -07'00'
Operations Manager	John Branch	232120	WFO-HE	JOHN BRANCH (Affiliate)	Digitally signed by JOHN BRANCH (Affiliate) Date: 2022.02.22 13:20:07 -07'00'

The Facility Operations Director (FOD) approval indicates that the work is appropriate to be conducted in the facility, the work is bounded by the facility authorization basis, that facility safety basis, aggregate hazards, and co-located hazards will be managed, and that the facility entry, training and coordination requirements are fully captured within this document. Unless otherwise indicated, approval indicates work release (i.e., no signature required on Part 3).

<input type="checkbox"/> If Checked, FOD Signature is Required on Part 3					
	Printed Name	Z#	Org	Signature	Date
Facility Operations Director (FOD)	Derek Clark	332752	WFO-DO	PETER RICE (Affiliate)	Digitally signed by PETER RICE (Affiliate) Date: 2022.02.25 11:11:36 -07'00'

Derivative Classification Review				
If this document is OUO, UCNI and/or Classified, add the appropriate markings, distribution limitation statement, and guidance data block (s) to document cover page.				
<input checked="" type="checkbox"/> Unclassified		<input type="checkbox"/> Official Use Only		<input type="checkbox"/> Unclassified Controlled Nuclear Information
Guidance Used: CG-SS-5				
DC/RO Name/Z Number: Ryan Locke/309364	Organization: WFO-HE	Signature: RYAN LOCKE (Affiliate)	Digitally signed by RYAN LOCKE (Affiliate) Date: 2022.01.06 08:22:25 -07'00'	Date: 1/6/22

For Document Control Team Reference:

☒ USQ (applicable to WETF) ☒ USI (applicable to DARHT) ☐ N/A

Users are responsible for verifying that they are working to the most current revision of a document



Document Number:	WFO-IWD-0016
Revision:	H

Spill Response and Clean Up in Weapons Facilities Operations (WFO) Areas

Effective Date: 02/25/2022		Expiration Date(Maximum 3 years): 02/25/2025	
Hazard Category	<input type="checkbox"/> High/Complex	<input checked="" type="checkbox"/> Moderate	<input type="checkbox"/> Low
Standing IWD?	<input checked="" type="checkbox"/> Yes (one Pre-Job Brief. If High/Complex hazard, Pre-Job brief required for each evolution)		<input type="checkbox"/> No
Annual 2101 and 2102 REVIEW DUE DATE: 09/01/2022		DATE ANNUAL REVIEW CONDUCTED:	

Reviewed and Approved for Use By:

	Printed Name	Z#	Org	Signature	Date
Person in Charge (PIC)	Kelkenny Bileen	178009	EPC-CP	Kelkenny Bileen	Digitally signed by Kelkenny Bileen Date: 2022.02.07 10:56:11 -07'00'
Peer Reviewer	Robert Kyser Bruce Dahlquist	099925 234968	OSH-DS	ROBERT KYSER (Affiliate)	Digitally signed by ROBERT KYSER (Affiliate) Date: 2022.02.07 14:58:18 -07'00'
Responsible Line Manager	Steven Story	112890	EPC-CP	STEVEN STORY (Affiliate)	Digitally signed by STEVEN STORY (Affiliate) Date: 2022.02.10 15:02:32 -07'00'
Operations Manager	John Branch	232120	WFO-HE	JOHN BRANCH (Affiliate)	Digitally signed by JOHN BRANCH (Affiliate) Date: 2022.02.22 13:20:07 -07'00'

The Facility Operations Director (FOD) approval indicates that the work is appropriate to be conducted in the facility, the work is bounded by the facility authorization basis, that facility safety basis, aggregate hazards, and co-located hazards will be managed, and that the facility entry, training and coordination requirements are fully captured within this document. Unless otherwise indicated, approval indicates work release (i.e., no signature required on Part 3).

<input type="checkbox"/> If Checked, FOD Signature is Required on Part 3					
	Printed Name	Z#	Org	Signature	Date
Facility Operations Director (FOD)	Derek Clark	332752	WFO-DO	PETER RICE (Affiliate)	Digitally signed by PETER RICE (Affiliate) Date: 2022.02.25 11:11:36 -07'00'

Derivative Classification Review				
If this document is OUO, UCNI and/or Classified, add the appropriate markings, distribution limitation statement, and guidance data block (s) to document cover page.				
<input checked="" type="checkbox"/> Unclassified		<input type="checkbox"/> Official Use Only		<input type="checkbox"/> Unclassified Controlled Nuclear Information
Guidance Used: CG-SS-5				
DC/RO Name/Z Number: Ryan Locke/309364	Organization: WFO-HE	Signature: RYAN LOCKE (Affiliate)	Digitally signed by RYAN LOCKE (Affiliate) Date: 2022.01.06 08:22:25 -07'00'	Date: 1/6/22

For Document Control Team Reference:

☒ USQ (applicable to WETF) ☒ USI (applicable to DARHT) ☐ N/A

Users are responsible for verifying that they are working to the most current revision of a document

A
Spill Response and Clean Up in Weapons Facilities
Operations (WFO) Areas

Document No.: WFO-IWD-0016

Revision: H

Effective Date: 02/25/2022

Revision	Effective Date	Action	Description
A (0)	11/19/2008	New Procedure	Initial release.
A	11/20/2014	EXT1	60-day extension to allow time to review and revise.
B	02/25/2015	Minor Revision	Minor revision. Added TA-49 to list of applicable buildings, updated references. Renumbered document from IWD-WFO-99-999-999-0016 to WFO-IWD-0016 to reflect current WFO numbering convention. This document supersedes IWD-WFO-99-999-999-0016, Rev A; this is not a new document but a revision to an existing document; revision starts at B as document type did not change.
C	12/21/2016	Minor Revision	Minor revision: <ul style="list-style-type: none"> • Updated approvals on cover page • Updated SMEs and Alternate PICs on Page 6 • Added Course # 22956 for HAZCOM Training on Page 7 through 9 • Updated reference documents on Page 13 • Updated POC from Brian Watkins to Thomas Sisneros on Pages 13 and 14. Replaced 2102 forms with 2101 forms.
C	11/30/2017	EXT1	60-day extension to allow time to review and revise.
D	02/28/2018	Major Revision	Major revision. Updated cover page format. Updated approvals on cover page. Added Note in Section 1.3 to clarify that EPC-CP must be notified of all spills (inside or outside). Replaced 2101 and 2103 forms. Added 2102 form.
D	05/22/2018	RAC	RAC. Added new page 47 with additional worker signature (Paul Gonzales, Z# 169004) to Form 2103, Part 3 Validation and Work Release.
D	10/01/2018	EXT1	30-day extension to review and revise.
E	10/15/2018	Minor Revision	Minor revision. Inserted 2101s for WETF, DARHT and 2102s for WFO BOP with updated expiration dates for CY 2019. Updated acronym EO to read SEO throughout. Updated references to organization ENV-CP to EPC-CP throughout.
E	09/27/2019	EXT1	30-day extension until 10/30/2019 requested to allow time for final signatures and USQ/USI reviews for Revision F.
F	10/02/2019	Major Revision	Updated acronym SEO to read EOSC and updated phone number from 667-6211 to 667-2400 in Sections 1.1, 1.2, 1.3 and 1.6. Attachment A: Removed references to WFO-PLAN-035 and replaced with WFO-BEP-378. Removed references to WFO-PRO-FI-1084 and WFO-PRO-FI-1086 and replaced with WFO-AP-263.
F	09/28/2020	EXT1	Extension to allow time to review and revise.
G	10/28/2020	Major Revision	Updated approvals on cover page. Updated Application of Micro Blaze work steps. Inserted Opening and Securing of Waste Containers work step. Inserted 2101s for WETF, DARHT and 2102s for WFO BOP with updated expiration dates for CY 2021.
H	02/25/2022	Major Revision	Inserted updated 2101s and 2102s for FY 2022. Updated approvals on cover page. Added new Note 1 to Section 1.3 and renumbered existing note as Note 2. Updated Attachment A where eyewash stations are mentioned.

**Spill Response and Clean Up in Weapons Facilities
Operations (WFO) Areas**

Document No.: WFO-IWD-0016

Revision: H

Effective Date: 02/25/2022

Table of Contents

1.0	Introduction.....	4
1.1	Purpose	4
1.2	Scope	4
1.3	Applicability	4
1.4	Definitions and Acronyms.....	5
1.5	Hazard Analysis	5
1.6	Site Emergency Contacts.....	5
2.0	Procedural Steps.....	5
3.0	Forms	5
4.0	Attachments	5
	Attachment A Integrated Work Document (IWD) Part 1, Activity Specific Information.....	6
	Attachment B Integrated Work Document (IWD) Part 2 (Non Tenant)	14
	Attachment C Integrated Work Document (IWD) Part 2 (Tenant).....	41
	Attachment D Integrated Work Document (IWD) Part 3 Validation and Work Release	48
	Attachment E Integrated Work Document (IWD) Part 4, (Feedback/Post Job Reviews).....	50

Spill Response and Clean Up in Weapons Facilities Operations (WFO) Areas

Document No.: WFO-IWD-0016

Revision: H

Effective Date: 02/25/2022

1.0 Introduction

1.1 Purpose

This procedure describes clean up of spills following notification to the Duty Officer. The objective of this task is spill response and the cleanup of spills deemed a non-emergency by EOSC or EPC-CP.

1.2 Scope

This IWD is to be implemented for the clean up of spills following notification to the Duty Officer. The objective of this task is spill response and the cleanup of spills deemed a non-emergency by EOSC or EPC-CP. These spills could occur at or within any WFO-FOD facility including TAs, 6, 8, -9, 11, 14, 15, 16, 22, 36, 37, 39, 40, and 49. Depending on the location of the spill, additional contaminants such as heavy metals, beryllium, trace amounts of or nonhazardous amounts of HE or DU could also exist in the soil and therefore the waste stream. WFO's waste management coordinators will make waste determinations and manage the wastes per P409, *Waste Management*.

Note: In the event that an item is encountered within an HE area that cannot be immediately identified as normal firing site debris work shall be paused and an explosives SME will be contacted to identify the item in question.

Note: In active HE areas a person with site specific knowledge will be consulted to identify any hazards prior to the start of work"

1.3 Applicability

This document applies to WFO workers at TAs, 6, 8, 9, 11, 14, 15, 16, 22, 36, 37, 39, 40, and 49, who are performing spill clean up activities as described in 1.2 Scope. There are two types of spills:

- simple spills (incidental release), which can be cleaned up by knowledgeable chemical workers (workers with knowledge of the chemical, appropriate training, materials and PPE needed to clean the spill). A simple spill shall be defined as one that:
 1. Does not spread rapidly
 2. Does not endanger people or property (except by direct contact)
 3. Does not endanger the environment
 4. Does not involve fire or an explosive condition or the potential for such. All others are complex spills.
- complex spills (significant spills), which require outside assistance (Emergency Operations Support Center(EOSC)).

Note 1: If a spill is located in a trafficked area, the EOSC should be contacted (667-2400) so they can arrange for traffic control during the cleanup to avoid injury to responders due to motorists driving in the area regardless if the spill is considered simple or complex.

Note 2: All spills (both outside or indoors) must be reported to EPC-CP to ensure each incident is evaluated, documented and remediated. EPC-CP is responsible for fulfilling

**Spill Response and Clean Up in Weapons Facilities
Operations (WFO) Areas**

Document No.: WFO-IWD-0016

Revision: H

Effective Date: 02/25/2022

any required external notifications associated with the release. Contact the EPC-CP Spills Pager (664-7722) to promptly notify EPC-CP of any spills. Contact EOSC (667-2400) in the event of an emergency.

1.4 Definitions and Acronyms

None.

1.5 Hazard Analysis

Hazard Analysis (HA) Method Used: ☐ Brainstorming ☒ Other:
List Names of HA Team (Attach sheet if necessary): DESHF-WFO Industrial Hygiene Team Date HA Performed: 11/03/2014.

1.6 Site Emergency Contacts

- Weapons Duty Officer: 664-2926
- Trit-HE Duty Operation Page; 664-6679
- WETF On-Call pager: 664-3426
- EOSC 667-2400
- EPC-CP Spills Pager: 664-7722

2.0 Procedural Steps

See procedural steps, hazards, and controls in Attachment A.

3.0 Forms

Number	Title
2100	Integrated Work Document (IWD) Part 1, Activity Specific Information
2101	Integrated Work Document (IWD) Part 2, FOD Requirements and Approval for Entry and Area Hazards and Controls, Non-Tenant Activity Form
2102	Integrated Work Document (IWD) Part 2, FOD Requirements and Approval for Entry and Area Hazards and Controls, Tenant Activity Form
2103	Integrated Work Document (IWD) Part 3, Validation and Work Release
2104	Integrated Work Document (IWD) Part 4, Post Job Review

4.0 Attachments

Forms 2100, 2101, 2102, 2103, 2104.

Spill Response and Clean Up in Weapons Facilities Operations (WFO) Areas

Document No.: WFO-IWD-0016
Revision: H
Effective Date: 02/25/2022

Attachment A Integrated Work Document (IWD) Part 1, Activity Specific Information

Work Tasks/Steps Identify work steps/tasks in sequence when such sequencing contributes to safety, security, and/or environmental protection.	Hazards, Concerns, and Potential Accidents/Incidents Identify both activity and work-area hazards for each task/step.	Controls, Preventive Measures, and Bounding Conditions Specify preventive measures, controls for each hazard (e.g., lockout/tagout points, specific Personal Protective Equipment [PPE], Tamper Indicating Devices [TIDs], alarms, safes, recycle, waste minimization).	Reference Documents List permits, operating manuals, security plans, and other reference procedures.	Training List training and qualification requirements. (P300 , Integrated Work Management, Section 6.1)
Spill Response				
Assess site for hazards	Previously unknown hazards or changed conditions	<ul style="list-style-type: none"> • Perform windshield survey of the area • Interview workers knowledgeable of the spill • Identify hazards • Determine source, type and quantity of spilled material • Walk down site prior to activity • Communicate hazards to other workers 	Applicable <i>WFO Building Emergency Plan</i>	HAZCOM, Course 22956 Item # 27205, <i>WFO (FOD-3 Building Emergency Plan</i>
	Slips, trips and falls	<ul style="list-style-type: none"> • Avoid stepping in spilled material • Be aware of footing and surroundings at all times. Identify hazards prior to initiating work. • Use caution and be observant while moving in areas with potential slip, trip or fall hazards. • Implement good housekeeping practices. • No open-toed shoes 	None	None
Control site Access	Previously unknown hazards or changed conditions	<ul style="list-style-type: none"> • Administratively control area • Barriers: tape, rope 	None	HAZCOM, Course 22956

Spill Response and Clean Up in Weapons Facilities Operations (WFO) Areas

Document No.: WFO-IWD-0016

Revision: H

Effective Date: 02/25/2022

Attachment A Integrated Work Document (IWD) Part 1 Activity Specific Information (cont'd)

Work Tasks/Steps Identify work steps/tasks in sequence when such sequencing contributes to safety, security, and/or environmental protection.	Hazards, Concerns, and Potential Accidents/Incidents Identify both activity and work-area hazards for each task/step.	Controls, Preventive Measures, and Bounding Conditions Specify preventive measures, controls for each hazard (e.g., lockout/tagout points, specific Personal Protective Equipment [PPE], Tamper Indicating Devices [TIDs], alarms, safes, recycle, waste minimization).	Reference Documents List permits, operating manuals, security plans, and other reference procedures.	Training List training and qualification requirements. (P300 , Integrated Work Management, Section 6.1)
Deploy Spill control measures (loose absorbents, pads and booms)	Incompatible materials	<ul style="list-style-type: none">• Determine type of spilled material• Select proper spill control material	<ul style="list-style-type: none">• Manufacturer instructions• MSDS	HAZCOM, Course 22956
	Inhalation hazards	<ul style="list-style-type: none">• Minimize time in the vicinity of the spilled material• Position personnel up wind of plume	<ul style="list-style-type: none">• Manufacturer instructions• MSDS	HAZCOM, Course 22956
	Contact with spilled material	<ul style="list-style-type: none">• Proper PPE Hands: Compatible gloves. Eyes: Safety glasses with side shields for all operations Body: Long pants and sleeved shirt• When caustics are present, ensure an eyewash station is accessible within 10 seconds of the hazard (approximately 55 feet) and the path of travel is free of obstructions.	<ul style="list-style-type: none">• Consult with the WFO Industrial Hygienist (IH),• MSDS	HAZCOM, Course 22956

Spill Response and Clean Up in Weapons Facilities Operations (WFO) Areas

Document No.: WFO-IWD-0016

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Effective Date: 02/25/2022

Attachment A Integrated Work Document (IWD) Part 1 Activity Specific Information (cont'd)

Work Tasks/Steps Identify work steps/tasks in sequence when such sequencing contributes to safety, security, and/or environmental protection.	Hazards, Concerns, and Potential Accidents/Incidents Identify both activity and work-area hazards for each task/step.	Controls, Preventive Measures, and Bounding Conditions Specify preventive measures, controls for each hazard (e.g., lockout/tagout points, specific Personal Protective Equipment [PPE], Tamper Indicating Devices [TIDs], alarms, safes, recycle, waste minimization).	Reference Documents List permits, operating manuals, security plans, and other reference procedures.	Training List training and qualification requirements. (P300 , Integrated Work Management, Section 6.1)
Clean up of absorbent material (loose absorbents, pads and booms)	Inhalation hazards	<ul style="list-style-type: none"> Minimize generation of dust or splash Minimize time in the vicinity of the spilled material Position personnel up wind of spill 	<ul style="list-style-type: none"> Manufacturer instructions MSDS 	HAZCOM, Course 22956
	Contact with spilled material	<ul style="list-style-type: none"> Proper PPE Hands: Compatible gloves. Eyes: Safety glasses with side shields for all operations. spills Body: Long pants and sleeved shirt When caustics are present, ensure an eyewash station is accessible within 10 seconds of the hazard (approximately 55 feet) and the path of travel is free of obstructions. 	<ul style="list-style-type: none"> Consult with the WFO Industrial Hygienist (IH), MSDS 	HAZCOM, Course 22956
Application of Micro Blaze Emergency Liquid Spill Control.	Contact with Micro Blaze Be upwind when applied	<ul style="list-style-type: none"> Proper PPE: Eyes: Safety glasses with side shields for all operations Do not direct spray towards personnel Instruct personnel to be upwind when Micro Blaze is applied. 	<ul style="list-style-type: none"> Manufacturer instructions MSDS 	HAZCOM, Course 22956
	Low pressure (<100 psi)	<ul style="list-style-type: none"> Follow sprayer manufacturers instructions 	<ul style="list-style-type: none"> Manufacturer instructions 	None
	Slippery surfaces (when applied to asphalt or concrete)	<ul style="list-style-type: none"> Avoid stepping in treated area If necessary, spray treated area with clean water after 15 minutes 	<ul style="list-style-type: none"> None 	None

Spill Response and Clean Up in Weapons Facilities Operations (WFO) Areas

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Attachment A Integrated Work Document (IWD) Part 1 Activity Specific Information (cont'd)

Work Tasks/Steps Identify work steps/tasks in sequence when such sequencing contributes to safety, security, and/or environmental protection.	Hazards, Concerns, and Potential Accidents/Incidents Identify both activity and work-area hazards for each task/step.	Controls, Preventive Measures, and Bounding Conditions Specify preventive measures, controls for each hazard (e.g., lockout/tagout points, specific Personal Protective Equipment [PPE], Tamper Indicating Devices [TIDs], alarms, safes, recycle, waste minimization).	Reference Documents List permits, operating manuals, security plans, and other reference procedures.	Training List training and qualification requirements. (P300, Integrated Work Management, Section 6.1)
Recharge of sprayer with Micro Blaze Emergency Liquid Spill Control	Contact with Micro Blaze	<ul style="list-style-type: none">• Proper PPE Eyes: Safety glasses with side shields for all operations.	<ul style="list-style-type: none">• MSDS	HAZCOM, Course 22956
	Compressed Air: Low pressure (<100 psi)	<ul style="list-style-type: none">• Follow manufactures instructions• Proper PPE: Eyes: Safety glasses with side shields for all operations• Hand tighten nozzle assembly onto canister• Do not charge sprayer over 100 psi	<ul style="list-style-type: none">• Manufacturer Instructions	None

Spill Response and Clean Up in Weapons Facilities Operations (WFO) Areas

Attachment A
Integrated Work Document (IWD) Part 1 Activity Specific Information (cont'd)

Work Tasks/Steps Identify work steps/tasks in sequence when such sequencing contributes to safety, security, and/or environmental protection.	Hazards, Concerns, and Potential Accidents/Incidents Identify both activity and work-area hazards for each task/step.	Controls, Preventive Measures, and Bounding Conditions Specify preventive measures, controls for each hazard (e.g., lockout/tagout points, specific Personal Protective Equipment [PPE], Tamper Indicating Devices [TIDs], alarms, safes, recycle, waste minimization).	Reference Documents List permits, operating manuals, security plans, and other reference procedures.	Training List training and qualification requirements. (P300, Integrated Work Management, Section 6.1)
Excavation of Contaminated Soil				
Excavation of soil stained with spilled material.	Excavation hazards associated with underground utilities: electrocution, explosion	<ul style="list-style-type: none"> Excavation Permit as required 	<ul style="list-style-type: none"> P101-17 Excavation/Fill /Soil Disturbance 	None
	Use of hand tools: Pinch points, mashing fingers and/or toes	<ul style="list-style-type: none"> All hand tools will be inspected for integrity before use. Personnel will be instructed to use hand tools in the intended manner. Proper PPE: Eyes: Safety glasses with side shields Hands: Work gloves Foot: safety shoes 	None	None
	Use of Heavy Equipment: Workers struck or crushed by equipment, Rollover	<ul style="list-style-type: none"> Only qualified equipment operators are allowed to operate heavy equipment. Equipment shall be inspected daily or before each use Heavy equipment shall be inspected for engineering controls Persons on the ground are instructed to get and maintain eye contact with heavy equipment operators with pre-established hand signals. 	<ul style="list-style-type: none"> Subparts O of 29 CFR 1926 and 29 CFR 1910 	None

Spill Response and Clean Up in Weapons Facilities Operations (WFO) Areas

Attachment A
Integrated Work Document (IWD) Part 1 Activity Specific Information (cont'd)

Work Tasks/Steps Identify work steps/tasks in sequence when such sequencing contributes to safety, security, and/or environmental protection.	Hazards, Concerns, and Potential Accidents/Incidents Identify both activity and work-area hazards for each task/step.	Controls, Preventive Measures, and Bounding Conditions Specify preventive measures, controls for each hazard (e.g., lockout/tagout points, specific Personal Protective Equipment [PPE], Tamper Indicating Devices [TIDs], alarms, safes, recycle, waste minimization).	Reference Documents List permits, operating manuals, security plans, and other reference procedures.	Training List training and qualification requirements. (P300, Integrated Work Management, Section 6.1)
Excavation of soil stained with spilled material., cont'd	Potential for historical site contaminants, SWMUs: DU, HE, Beryllium, Lead	<ul style="list-style-type: none"> • Signs and postings • Consult with Industrial Hygienist (IH), RCTs and HE Operations Team Leader • Consult EPC-CP and WES-DO • Have soil surveyed by an RCT prior to and as excavated, as necessary. • Additional PPE as required by IH and RCT <p>Note: In the event that an item is encountered within an HE area that cannot be immediately identified as normal firing site debris work shall be paused and an explosives SME will be contacted to identify the item in question.</p> <p>Note: In active HE areas a person with site specific knowledge will be consulted to identify any hazards prior to the start of work.</p>	<ul style="list-style-type: none"> • WFO-AP-263, <i>WFO Access Requirements for Knowledgeable Persons</i> • P 101-17 Excavation/Fill/Soil Disturbance • Decision Support Application (DSA) 	
	Heavy Lifting.	<ul style="list-style-type: none"> • Proper lifting techniques • Lift only what you are capable of but not more than 50 pounds. • Use two or more people to lift heavy or awkward loads • Position load to be lifted directly in front of body. Bend knees and grasp load underneath with both hands and raise load using legs (not back). • Do not lift and twist 	None	None

Spill Response and Clean Up in Weapons Facilities Operations (WFO) Areas

Attachment A
Integrated Work Document (IWD) Part 1 Activity Specific Information (cont'd)

Work Tasks/Steps Identify work steps/tasks in sequence when such sequencing contributes to safety, security, and/or environmental protection.	Hazards, Concerns, and Potential Accidents/Incidents Identify both activity and work-area hazards for each task/step.	Controls, Preventive Measures, and Bounding Conditions Specify preventive measures, controls for each hazard (e.g., lockout/tagout points, specific Personal Protective Equipment [PPE], Tamper Indicating Devices [TIDs], alarms, safes, recycle, waste minimization).	Reference Documents List permits, operating manuals, security plans, and other reference procedures.	Training List training and qualification requirements. (P300, Integrated Work Management, Section 6.1)
Containerize wastes				
Containerize waste absorbent material, excavated soil and other waste	Pinch points, mashing fingers and/or toes	<ul style="list-style-type: none"> Keep hands away from pinch points. Proper PPE: Eyes: Safety glasses with side shields Hands: Work gloves Foot: safety shoes 	None	None
	Use of hand tools: Pinch points, mashing fingers and/or toes	<ul style="list-style-type: none"> All hand tools will be inspected for integrity before use. Personnel will be instructed to use hand tools in the intended manner. Proper PPE: Eyes: Safety glasses with side shields Hands: Work gloves Foot: safety shoes 	None	None
	Heavy Lifting.	<ul style="list-style-type: none"> Proper lifting techniques Lift only what you are capable of but not more than 50 pounds. Use two or more people to lift heavy or awkward loads Position load to be lifted directly in front of body. Bend knees and grasp load underneath with both hands and raise load using legs (not back). Do not lift and twist 	None	None
	Incorrect waste determination and management	<ul style="list-style-type: none"> WMC determines waste type WMC will label waste container WMC will manage wastes 	P-409 Waste Management	Waste Generator Overview

Spill Response and Clean Up in Weapons Facilities Operations (WFO) Areas

Attachment A
Integrated Work Document (IWD) Part 1 Activity Specific Information (cont'd)

Work Tasks/Steps Identify work steps/tasks in sequence when such sequencing contributes to safety, security, and/or environmental protection.	Hazards, Concerns, and Potential Accidents/Incidents Identify both activity and work-area hazards for each task/step.	Controls, Preventive Measures, and Bounding Conditions Specify preventive measures, controls for each hazard (e.g., lockout/tagout points, specific Personal Protective Equipment [PPE], Tamper Indicating Devices [TIDs], alarms, safes, recycle, waste minimization).	Reference Documents List permits, operating manuals, security plans, and other reference procedures.	Training List training and qualification requirements. (P300, Integrated Work Management, Section 6.1)
Opening and Securing of Waste Containers				
	Do not use or open drums with apparent bulging; even empty drums may be pressurized.	<ul style="list-style-type: none"> Inspect before opening; even empty drums may be pressurized. 	P-409 Waste Management	Waste Generator Overview
Transport of Waste Containers				
Waste Management Coordinator (WMC) transports waste containers to designated waste storage area	Operation of lift gate: Pinch points, mashing fingers and/or toes	<ul style="list-style-type: none"> Advise nearby workers that the lift gate is being operated Kept clear of lift gate swing radius Proper PPE: Eyes: Safety glasses with side shields Hands: Work gloves 	Manufacturer instructions	None
	Heavy Lifting	<ul style="list-style-type: none"> Proper lifting techniques Lift only what you are capable of but not more than 50 pounds. Use two or more people to lift heavy or awkward loads Position load to be lifted directly in front of body. Bend knees and grasp load underneath with both hands and raise load using legs (not back). Do not lift and twist 	None	None
	Shifting loads	<ul style="list-style-type: none"> Secure loads in truck bed 	None	None

Spill Response and Clean Up in Weapons Facilities Operations (WFO) Areas

Attachment B
Integrated Work Document (IWD) Part 2 (Non Tenant)

Form 2101

Integrated Work Document (IWD) Part 2
FOD Requirements and Approval for Entry and Area Hazards and Controls
Non-Tenant

IWD No./Work Request No.: <u>WFO-IWD-0016</u> Revision No.: <u>H</u>																		
The Facility Operations Director (FOD) or designee must determine the facility entry and coordination requirements and identify the area environment, safety, health (ESH)/security and safeguards (S&S) hazards and controls associated with the specific activity location.																		
FOD 3	TA 16	Bldg. 205	Room 100, 100A, 101, 102, 103, 104, 104A, 106, 110	Other Location														
FOD Designated Facility Point-of-Contact	Name Don Hyatt Mel Ortiz Jamie Vongphachan Cipriano Vigil	Phone 7-7519 7-5419 4-0842 7-3363	Pager 4-6314 4-3070 4-6254 4-7384	Email hyatt@lanl.gov msortiz@lanl.gov jvongphachan@lanl.gov cfvigil@lanl.gov														
General Requirement/Guidance: <ul style="list-style-type: none"> Workers in areas that have building or facility-specific training (FST) shall take the FST unless they are escorted by someone who is current in the training. Any abnormal event or condition, whether within or beyond the bounds of the assigned work area, must be reported to supervisors or first-line managers and the FOD. 																		
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Additional Comments: WETF is a Category II Nuclear Facility. Check in with the WETF Duty Operator, 7-2060, 16-205-110, prior to start of work. The WETF work control process must be followed. Security Requirements: No 2-way pagers or personal cell phones. Blackberries are allowed except in the "Closed Area". Government issued cellphones must have the battery removed. "Q"/"L" clearance required for all exterior areas of WETF. Un-Cleared personnel must be escorted at all times.																		
Instructions: In the block below, identify work area hazards that could potentially affect the worker(s) or others. Avoid using the same Part 2, Form 2101 for multiple facilities. Ensure that work area hazards specific to the facility or work location are identified and controlled. Specify the facility controls and preventive measures that must be implemented by the worker(s) to protect against the work area hazards, including any unique or special training required because of work area conditions/hazards.																		
ESH/S&S WORK AREA HAZARDS AND CONTROLS																		
Work Area Hazards/Concerns Identify site hazards and concerns that could potentially affect the worker(s) or others.	Work Area Hazard Present	Facility Controls/ Preventive Measures/ Bounding Conditions Specify preventive measures, controls, and bounding conditions for each site hazard	Reference Documents List permits, operating manuals, and other procedures (if required in the field)	Training and Qualification (special or unique to the area)														
<input type="checkbox"/> No work area hazards																		

Form 2101 (04/21)

Page 1 of 3

Spill Response and Clean Up in Weapons Facilities Operations (WFO) Areas

Attachment B
Integrated Work Document (IWD) Part 2 (Non Tenant) (cont'd)

Ionizing Radiation Work in posted radiological areas, work with radioactive materials, or work on or near radiation producing devices. Specify Hazard:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
IWD No./Work Request No.: Revision No.:				
ESH/S&S WORK AREA HAZARDS AND CONTROLS				
Work Area Hazards/Concerns Identify site hazards and concerns that could potentially affect the worker(s) or others.	Work Area Hazard Present	Facility Controls/ Preventive Measures/ Bounding Conditions Specify preventive measures, controls, and bounding conditions for each site hazard	Reference Documents List permits, operating manuals, and other reference procedures	Training and Qualification List training requirements
Worker Exposure Working near non-ionizing radiation, beryllium, noise, chemicals, biological hazards, lead, asbestos, temperature/humidity extremes, nanoparticles, cryogenics, or high explosives. Specify Hazards: Nitrogen/Beryllium in room 120 cabinet and room 126 drums.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Energized and Operative Systems Working near energized electrical parts, pressure systems, steam lines; unprotected belts, pulleys, chains, rotating equipment; fuel-fired equipment (other than vehicles); or spark/flame-producing operations. Specify Hazards:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Confined Spaces Entry into tanks, manholes, cooling towers, sumps, or any other area with potentially low oxygen concentration or other hazards such as toxic vapors or engulfment. Specify Hazards:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Elevated Work Surface Unprotected elevated work (e.g., conventional guardrails are not provided) requiring fall protection per P101-20, Fall Protection Program , or a surface not designed to support worker(s) and equipment.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Environmental Activities conducted in areas containing potential release sites, contaminated soil, sensitive species, watercourse, wetlands, floodplains, historical/archeological sites, or other work area element that can impact, or be impacted by, the environment. Specify Hazards:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Security Requirements Specify:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Q or L Clearance or Escorted	P202-1 Security Areas, Property Protection Areas, and General Access Areas	U-Train 1425 Annual Security Refresher

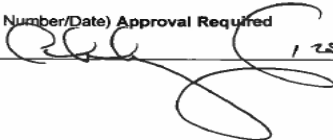
Spill Response and Clean Up in Weapons Facilities Operations (WFO) Areas

Document No.: WFO-IWD-0016

Revision: H

Effective Date: 02/25/2022

Attachment B Integrated Work Document (IWD) Part 2 (Non Tenant) (cont'd)

Other Hazards Specify: LEEDS (Low Energy Electro Explosive Devices) are present inside WETF.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	All radio frequency generating activities (e.g. GPR, XRF, ETC.) must be approved by the Operations Manager	P101-8 Explosives Safety	
I have verified that the items indicated above adequately identify existing and potential area hazards associated with the work location and communicate facility-required controls that will enable safe, secure, and environmentally compliant work execution.				
FOD or Representative (Signature/Z Number/Date) Approval Required				
 12547 8/15/21				

Spill Response and Clean Up in Weapons Facilities Operations (WFO) Areas

Attachment B
Integrated Work Document (IWD) Part 2 (Non Tenant) (cont'd)

Form 2101

Integrated Work Document (IWD) Part 2
FOD Requirements and Approval for Entry and Area Hazards and Controls
Non-Tenant

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The Facility Operations Director (FOD) or designee must determine the facility entry and coordination requirements and identify the area environment, safety, health (ESH)/security and safeguards (S&S) hazards and controls associated with the specific activity location.																		
FOD 3	TA 16	Bldg. 205	Room 112, 114, 115, 116, 100B, 120, 122, 124, 126	Other Location														
FOD Designated Facility Point-of-Contact	Name Don Hyatt Mel Ortiz Jamie Vongphachan Cipriano Vigil	Phone 7-7519 7-5419 4-0842 7-3363	Pager 4-6314 4-3070 4-6254 4-7384	Email hyatt@lanl.gov msortiz@lanl.gov jvongphachan@lanl.gov cfvigil@lanl.gov														
General Requirement/Guidance: <ul style="list-style-type: none"> Workers in areas that have building or facility-specific training (FST) shall take the FST unless they are escorted by someone who is current in the training. Any abnormal event or condition, whether within or beyond the bounds of the assigned work area, must be reported to supervisors or first-line managers and the FOD. 																		
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Work Area Hazards/Concerns Identify site hazards and concerns that could potentially affect the worker(s) or others.	Work Area Hazard Present	Facility Controls/ Preventive Measures/ Bounding Conditions Specify preventive measures, controls, and bounding conditions for each site hazard	Reference Documents List permits, operating manuals, and other procedures (if required in the field)	Training and Qualification (special or unique to the area)														
<input type="checkbox"/> No work area hazards																		

Form 2101 (04/21)

Page 1 of 3

Spill Response and Clean Up in Weapons Facilities Operations (WFO) Areas

Attachment B
Integrated Work Document (IWD) Part 2 (Non Tenant) (cont'd)

Ionizing Radiation Work in posted radiological areas, work with radioactive materials, or work on or near radiation producing devices. Specify Hazard: Work in posted radiological areas, work with radioactive materials, or work on or near radiation producing devices	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Facility and job-specific pre-job briefing, facility postings	Job specific RWP's and work package instructions and WETF-AP-FRPR-34 Facility Radiation Protection Requirements Weapons Engineering Tritium Facility	RAD Worker II and Facility Access Training unless escorted
IWD No./Work Request No.: Revision No.:				
ESH/S&S WORK AREA HAZARDS AND CONTROLS				
Work Area Hazards/Concerns Identify site hazards and concerns that could potentially affect the worker(s) or others.	Work Area Hazard Present	Facility Controls/ Preventive Measures/ Bounding Conditions Specify preventive measures, controls, and bounding conditions for each site hazard	Reference Documents List permits, operating manuals, and other reference procedures	Training and Qualification List training requirements
Worker Exposure Working near non-ionizing radiation, beryllium, noise, chemicals, biological hazards, lead, asbestos, temperature/humidity extremes, nanoparticles, cryogenics, or high explosives. Specify Hazards: Nitrogen/Beryllium in room 120 cabinet and room 126 drums.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Facility and job-specific pre-job briefing. Oxygen monitors are present throughout areas with potential for low oxygen concentration •If accessing the Be cabinet in room 120, contact IH for Beryllium evaluation and controls. •If accessing the drums or handling beryllium articles or items from the drums in room 126, contact IH for evaluation and controls.	P101-5 Cryogenics P101-21 Chronic Beryllium Disease Prevention Program	Facility Briefing by Duty Operator Beryllium Awareness Training Course 28340
Energized and Operative Systems Working near energized electrical parts, pressure systems, steam lines; unprotected belts, pulleys, chains, rotating equipment; fuel-fired equipment (other than vehicles); or spark/flame-producing operations. Specify Hazards:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Confined Spaces Entry into tanks, manholes, cooling towers, sumps, or any other area with potentially low oxygen concentration or other hazards such as toxic vapors or engulfment. Specify Hazards:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			

Spill Response and Clean Up in Weapons Facilities Operations (WFO) Areas


Document No.: WFO-IWD-0016

Revision: H

Effective Date: 02/25/2022

Attachment B Integrated Work Document (IWD) Part 2 (Non Tenant) (cont'd)

Elevated Work Surface Unprotected elevated work (e.g., conventional guardrails are not provided) requiring fall protection per P101-20, Fall Protection Program , or a surface not designed to support worker(s) and equipment.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Environmental Activities conducted in areas containing potential release sites, contaminated soil, sensitive species, watercourse, wetlands, floodplains, historical/archeological sites, or other work area element that can impact, or be impacted by, the environment. Specify Hazards:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Security Requirements Specify:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Q or L Clearance or Escorted	P202-1 Security Areas, Property Protection Areas, and General Access Areas	U-Train 1425 Annual Security Refresher
Other Hazards Specify: LEEDS (Low Energy Electro Explosive Devices) are present inside WETF.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	All radio frequency generating activities (e.g. GPR, XRF, ETC.) must be approved by the Operations Manager	P101-8 Explosives Safety	
I have verified that the items indicated above adequately identify existing and potential area hazards associated with the work location and communicate facility-required controls that will enable safe, secure, and environmentally compliant work execution.				
FOD or Representative (Signature/Z Number/Date) Approval Required				

 12587 25/15/21

Spill Response and Clean Up in Weapons Facilities Operations (WFO) Areas

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Form 2101

Integrated Work Document (IWD) Part 2 FOD Requirements and Approval for Entry and Area Hazards and Controls Non-Tenant

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FOD 3	TA 16	Bldg. 205/450	Room Exterior Areas	Other Location														
FOD Designated Facility Point-of-Contact	Name Don Hyatt Mel Ortiz Jamie Vongphachan Cipriano Vigil	Phone 7-7519 7-5419 4-0842 7-3363	Pager 4-6314 4-3070 4-6254 4-7384	Email hyatt@lanl.gov msortiz@lanl.gov jvongphachan@lanl.gov cfvigil@lanl.gov														
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Form 2101 (04/21)

Page 1 of 3

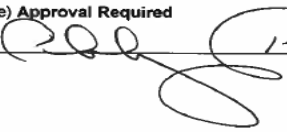
Spill Response and Clean Up in Weapons Facilities Operations (WFO) Areas

Attachment B
Integrated Work Document (IWD) Part 2 (Non Tenant) (cont'd)

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Worker Exposure Working near non-ionizing radiation, beryllium, noise, chemicals, biological hazards, lead, asbestos, temperature/humidity extremes, nanoparticles, cryogens, or high explosives. Specify Hazards:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Energized and Operative Systems Working near energized electrical parts, pressure systems, steam lines; unprotected belts, pulleys, chains, rotating equipment; fuel-fired equipment (other than vehicles); or spark/flame-producing operations. Specify Hazards:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Confined Spaces Entry into tanks, manholes, cooling towers, sumps, or any other area with potentially low oxygen concentration or other hazards such as toxic vapors or engulfment. Specify Hazards:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
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Spill Response and Clean Up in Weapons Facilities Operations (WFO) Areas

Attachment B
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FOD or Representative (Signature/Z Number/Date) Approval Required  125817 8/15/21				

Spill Response and Clean Up in Weapons Facilities Operations (WFO) Areas

Document No.: WFO-IWD-0016

Revision: H

Effective Date: 02/25/2022

Attachment B Integrated Work Document (IWD) Part 2 (Non Tenant) (cont'd)



Form 2101

Integrated Work Document (IWD) Part 2 FOD Requirements and Approval for Entry and Area Hazards and Controls Non-Tenant

IWD No./Work Request No: <u>WFO-IWD-0016</u> Revision No.: <u>H</u>																		
The Facility Operations Director (FOD) or designee must determine the facility entry and coordination requirements and identify the area environment, safety, health (ESH)/security and safeguards (S&S) hazards and controls associated with the specific activity location.																		
FOD 3	TA 16	Bldg. 205	Room UPS and Equipment Rooms	Other Location Roof														
FOD Designated Facility Point-of-Contact	Name Don Hyatt Mel Ortiz Jamie Vongphachan Cipriano Vigil	Phone 7-7519 7-5419 4-0842 7-3363	Pager 4-6314 4-3070 4-6254 4-7384	Email hyatt@lanl.gov msortiz@lanl.gov jvongphachan@lanl.gov cfvigil@lanl.gov														
General Requirement/Guidance: <ul style="list-style-type: none"> Workers in areas that have building or facility-specific training (FST) shall take the FST unless they are escorted by someone who is current in the training. Any abnormal event or condition, whether within or beyond the bounds of the assigned work area, must be reported to supervisors or first-line managers and the FOD. 																		
Entry and Coordination Requirements (check one or more of the following): <table border="0"> <tr> <td><input type="checkbox"/> No entry/coordination requirements</td> <td><input checked="" type="checkbox"/> FOD-designated facility point-of-contact must sign IWD Part 3</td> </tr> <tr> <td><input checked="" type="checkbox"/> Schedule work with the FOD</td> <td><input checked="" type="checkbox"/> Facility-specific or other work area training required</td> </tr> <tr> <td><input checked="" type="checkbox"/> Attend Plan of the Day/Plan of the Week (POTD/POTW)</td> <td><input checked="" type="checkbox"/> Check in daily</td> </tr> <tr> <td><input checked="" type="checkbox"/> Security clearance or escort required</td> <td><input checked="" type="checkbox"/> Check out daily</td> </tr> <tr> <td><input checked="" type="checkbox"/> Other security requirements (e.g., no cellphone or foreign nationals)</td> <td><input type="checkbox"/> Quality issues</td> </tr> <tr> <td><input checked="" type="checkbox"/> Review work under Authorization Basis / Safety Basis / Unreviewed Safety Question (USQ)</td> <td><input type="checkbox"/> Non-security escort required</td> </tr> <tr> <td></td> <td><input type="checkbox"/> Other bounding conditions: _____</td> </tr> </table>					<input type="checkbox"/> No entry/coordination requirements	<input checked="" type="checkbox"/> FOD-designated facility point-of-contact must sign IWD Part 3	<input checked="" type="checkbox"/> Schedule work with the FOD	<input checked="" type="checkbox"/> Facility-specific or other work area training required	<input checked="" type="checkbox"/> Attend Plan of the Day/Plan of the Week (POTD/POTW)	<input checked="" type="checkbox"/> Check in daily	<input checked="" type="checkbox"/> Security clearance or escort required	<input checked="" type="checkbox"/> Check out daily	<input checked="" type="checkbox"/> Other security requirements (e.g., no cellphone or foreign nationals)	<input type="checkbox"/> Quality issues	<input checked="" type="checkbox"/> Review work under Authorization Basis / Safety Basis / Unreviewed Safety Question (USQ)	<input type="checkbox"/> Non-security escort required		<input type="checkbox"/> Other bounding conditions: _____
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Additional Comments: WETF is a Category II Nuclear Facility. Check in with the WETF Duty Operator, 7-2060, 16-205-110, prior to start of work. The WETF work control process must be followed. Security Requirements: No 2-way pagers or personal cell phones. Blackberries are allowed except in the "Closed Area". Government issued cellphones must have the battery removed. "Q"/"L" clearance required for all exterior areas of WETF. Un-Cleared personnel must be escorted at all times.																		
Instructions: In the block below, identify work area hazards that could potentially affect the worker(s) or others. Avoid using the same Part 2, Form 2101 for multiple facilities. Ensure that work area hazards specific to the facility or work location are identified and controlled. Specify the facility controls and preventive measures that must be implemented by the worker(s) to protect against the work area hazards, including any unique or special training required because of work area conditions/hazards.																		
ESH/S&S WORK AREA HAZARDS AND CONTROLS																		
Work Area Hazards/Concerns Identify site hazards and concerns that could potentially affect the worker(s) or others.	Work Area Hazard Present	Facility Controls/ Preventive Measures/ Bounding Conditions Specify preventive measures, controls, and bounding conditions for each site hazard	Reference Documents List permits, operating manuals, and other procedures (if required in the field)	Training and Qualification (special or unique to the area)														
<input type="checkbox"/> No work area hazards																		

Form 2101 (04/21)

Page 1 of 3


Spill Response and Clean Up in Weapons Facilities Operations (WFO) Areas

Attachment B
Integrated Work Document (IWD) Part 2 (Non Tenant) (cont'd)

Ionizing Radiation Work in posted radiological areas, work with radioactive materials, or work on or near radiation producing devices. Specify Hazard:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
IWD No./Work Request No.: Revision No.:				
ESH/S&S WORK AREA HAZARDS AND CONTROLS				
Work Area Hazards/Concerns Identify site hazards and concerns that could potentially affect the worker(s) or others.	Work Area Hazard Present	Facility Controls/ Preventive Measures/ Bounding Conditions Specify preventive measures, controls, and bounding conditions for each site hazard	Reference Documents List permits, operating manuals, and other reference procedures	Training and Qualification List training requirements
Worker Exposure Working near non-ionizing radiation, beryllium, noise, chemicals, biological hazards, lead, asbestos, temperature/humidity extremes, nanoparticles, cryogenics, or high explosives. Specify Hazards: Potential for low oxygen concentration due to liquid nitrogen system.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Facility and job-specific pre-job briefing oxygen monitors are present throughout areas with potential for low oxygen concentration	P101-5 Cryogenics	Facility Briefing by Duty Operator
Energized and Operative Systems Working near energized electrical parts, pressure systems, steam lines; unprotected belts, pulleys, chains, rotating equipment; fuel-fired equipment (other than vehicles); or spark/flame-producing operations. Specify Hazards:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Confined Spaces Entry into tanks, manholes, cooling towers, sumps, or any other area with potentially low oxygen concentration or other hazards such as toxic vapors or engulfment. Specify Hazards:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Elevated Work Surface Unprotected elevated work (e.g., conventional guardrails are not provided) requiring fall protection per P101-20, Fall Protection Program , or a surface not designed to support worker(s) and equipment.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Environmental Activities conducted in areas containing potential release sites, contaminated soil, sensitive species, watercourse, wetlands, floodplains, historical/archeological sites, or other work area element that can impact, or be impacted by, the environment. Specify Hazards:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Security Requirements Specify:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Q or L Clearance or Escorted	P202-1 Security Areas, Property Protection Areas, and General Access Areas	U-Train 1425 Annual Security Refresher

Spill Response and Clean Up in Weapons Facilities Operations (WFO) Areas

Attachment B
Integrated Work Document (IWD) Part 2 (Non Tenant) (cont'd)

Other Hazards Specify: LEEDS (Low Energy Electro Explosive Devices) are present inside WETF.	<input checked="checked" type="checkbox"/> Yes <input type="checkbox"/> No	All radio frequency generating activities (e.g. GPR, XRF, ETC.) must be approved by the Operations Manager	P101-8 Explosives Safety
I have verified that the items indicated above adequately identify existing and potential area hazards associated with the work location and communicate facility-required controls that will enable safe, secure, and environmentally compliant work execution.			
FOD or Representative (Signature/Z Number/Date) Approval Required  125417 8/15/24			

Spill Response and Clean Up in Weapons Facilities Operations (WFO) Areas

Document No.: WFO-IWD-0016

Revision: H

Effective Date: 02/25/2022

Attachment B Integrated Work Document (IWD) Part 2 (Non Tenant) (cont'd)



Form 2101

Integrated Work Document (IWD) Part 2 FOD Requirements and Approval for Entry and Area Hazards and Controls Non-Tenant

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The Facility Operations Director (FOD) or designee must determine the facility entry and coordination requirements and identify the area environment, safety, health (ESH)/security and safeguards (S&S) hazards and controls associated with the specific activity location.																		
FOD 3	TA 16	Bldg. 329	Room All	Other Location														
FOD Designated Facility Point-of-Contact	Name Don Hyatt Mel Ortiz Jamie Yongphachan Cipriano Vigil	Phone 7-7519 7-5419 4-0842 7-3363	Pager 4-6314 4-3070 4-6254 4-7384	Email hyatt@lanl.gov msortiz@lanl.gov jvongphachan@lanl.gov cfvigil@lanl.gov														
General Requirement/Guidance: <ul style="list-style-type: none"> Workers in areas that have building or facility-specific training (FST) shall take the FST unless they are escorted by someone who is current in the training. Any abnormal event or condition, whether within or beyond the bounds of the assigned work area, must be reported to supervisors or first-line managers and the FOD. 																		
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Work Area Hazards/Concerns Identify site hazards and concerns that could potentially affect the worker(s) or others.	Work Area Hazard Present	Facility Controls/ Preventive Measures/ Bounding Conditions Specify preventive measures, controls, and bounding conditions for each site hazard	Reference Documents List permits, operating manuals, and other procedures (if required in the field)	Training and Qualification (special or unique to the area)														
<input type="checkbox"/> No work area hazards																		

Form 2101 (04/21)

Page 1 of 3

Spill Response and Clean Up in Weapons Facilities Operations (WFO) Areas

Attachment B
Integrated Work Document (IWD) Part 2 (Non Tenant) (cont'd)

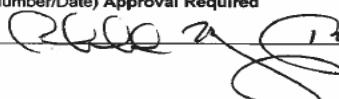
Ionizing Radiation Work in posted radiological areas, work with radioactive materials, or work on or near radiation producing devices. Specify Hazard:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
IWD No./Work Request No.: _____ Revision No.: _____				
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Worker Exposure Working near non-ionizing radiation, beryllium, noise, chemicals, biological hazards, lead, asbestos, temperature/humidity extremes, nanoparticles, cryogenics, or high explosives. Specify Hazards:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Energized and Operative Systems Working near energized electrical parts, pressure systems, steam lines; unprotected belts, pulleys, chains, rotating equipment; fuel-fired equipment (other than vehicles); or spark/flame-producing operations. Specify Hazards:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Confined Spaces Entry into tanks, manholes, cooling towers, sumps, or any other area with potentially low oxygen concentration or other hazards such as toxic vapors or engulfment. Specify Hazards:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Elevated Work Surface Unprotected elevated work (e.g., conventional guardrails are not provided) requiring fall protection per P101-20, Fall Protection Program , or a surface not designed to support worker(s) and equipment.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Environmental Activities conducted in areas containing potential release sites, contaminated soil, sensitive species, watercourse, wetlands, floodplains, historical/archeological sites, or other work area element that can impact, or be impacted by, the environment. Specify Hazards:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Security Requirements Specify:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Q or L Clearance or Escorted	P202-1 Security Areas, Property Protection Areas, and General Access Areas	U-Train 1425 Annual Security Refresher
Other Hazards Specify:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			

Spill Response and Clean Up in Weapons Facilities Operations (WFO) Areas

Attachment B
Integrated Work Document (IWD) Part 2 (Non Tenant) (cont'd)

I have verified that the items indicated above adequately identify existing and potential area hazards associated with the work location and communicate facility-required controls that will enable safe, secure, and environmentally compliant work execution.

FOD or Representative (Signature/Z Number/Date) Approval Required

 12517 2/14/21

Spill Response and Clean Up in Weapons Facilities Operations (WFO) Areas

Document No.: WFO-IWD-0016

Revision: H

Effective Date: 02/25/2022

Attachment B Integrated Work Document (IWD) Part 2 (Non Tenant) (cont'd)



Form 2101

Integrated Work Document (IWD) Part 2 FOD Requirements and Approval for Entry and Area Hazards and Controls Non-Tenant

IWD No./Work Request No.: <u>WFO-IWD-0016</u> Revision No.: <u>H</u>																			
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FOD 3	TA 16	Bldg. 450	Room 160, 161, 162, 163, Equipment Rooms	Other Location Roof															
FOD Designated Facility Point-of-Contact	Name Don Hyatt Mel Ortiz Byron Denny Jamie Vongphachan Cipriano Vigil	Phone 7-7519 7-5419 5-5339 4-0842 7-3363	Pager 4-6314 4-3070 4-6586 4-6254 4-7384	Email hyatt@lanl.gov msortiz@lanl.gov byron@lanl.gov jvongphachan@lanl.gov cfvigil@lanl.gov															
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Form 2101 (04/21)

Page 1 of 3


Spill Response and Clean Up in Weapons Facilities Operations (WFO) Areas

Attachment B
Integrated Work Document (IWD) Part 2 (Non Tenant) (cont'd)

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Spill Response and Clean Up in Weapons Facilities Operations (WFO) Areas

Attachment B
Integrated Work Document (IWD) Part 2 (Non Tenant) (cont'd)

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I have verified that the items indicated above adequately identify existing and potential area hazards associated with the work location and communicate facility-required controls that will enable safe, secure, and environmentally compliant work execution.				
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Spill Response and Clean Up in Weapons Facilities Operations (WFO) Areas

Attachment B
Integrated Work Document (IWD) Part 2 (Non Tenant) (cont'd)



Form 2101

Integrated Work Document (IWD) Part 2
FOD Requirements and Approval for Entry and Area Hazards and Controls
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FOD Designated Facility Point-of-Contact	Name Don Hyatt Mel Ortiz Jamie Vongphachan Cipriano Vigil	Phone 7-7519 7-5419 4-0842 7-3363	Pager 4-6314 4-3070 4-6254 4-7384	Email hyatt@lanl.gov msortiz@lanl.gov jvongphachan@lanl.gov cfvigil@lanl.gov														
General Requirement/Guidance: <ul style="list-style-type: none"> Workers in areas that have building or facility-specific training (FST) shall take the FST unless they are escorted by someone who is current in the training. Any abnormal event or condition, whether within or beyond the bounds of the assigned work area, must be reported to supervisors or first-line managers and the FOD. 																		
Entry and Coordination Requirements (check one or more of the following): <table border="0"> <tr> <td><input type="checkbox"/> No entry/coordination requirements</td> <td><input checked="" type="checkbox"/> FOD-designated facility point-of-contact must sign IWD Part 3</td> </tr> <tr> <td><input checked="" type="checkbox"/> Schedule work with the FOD</td> <td><input checked="" type="checkbox"/> Facility-specific or other work area training required</td> </tr> <tr> <td><input checked="" type="checkbox"/> Attend Plan of the Day/Plan of the Week (POTD/POTW)</td> <td><input checked="" type="checkbox"/> Check in daily</td> </tr> <tr> <td><input checked="" type="checkbox"/> Security clearance or escort required</td> <td><input checked="" type="checkbox"/> Check out daily</td> </tr> <tr> <td><input checked="" type="checkbox"/> Other security requirements (e.g., no cellphone or foreign nationals)</td> <td><input type="checkbox"/> Quality issues</td> </tr> <tr> <td><input checked="" type="checkbox"/> Review work under Authorization Basis / Safety Basis / Unreviewed Safety Question (USQ)</td> <td><input type="checkbox"/> Non-security escort required</td> </tr> <tr> <td></td> <td><input type="checkbox"/> Other bounding conditions: _____</td> </tr> </table>					<input type="checkbox"/> No entry/coordination requirements	<input checked="" type="checkbox"/> FOD-designated facility point-of-contact must sign IWD Part 3	<input checked="" type="checkbox"/> Schedule work with the FOD	<input checked="" type="checkbox"/> Facility-specific or other work area training required	<input checked="" type="checkbox"/> Attend Plan of the Day/Plan of the Week (POTD/POTW)	<input checked="" type="checkbox"/> Check in daily	<input checked="" type="checkbox"/> Security clearance or escort required	<input checked="" type="checkbox"/> Check out daily	<input checked="" type="checkbox"/> Other security requirements (e.g., no cellphone or foreign nationals)	<input type="checkbox"/> Quality issues	<input checked="" type="checkbox"/> Review work under Authorization Basis / Safety Basis / Unreviewed Safety Question (USQ)	<input type="checkbox"/> Non-security escort required		<input type="checkbox"/> Other bounding conditions: _____
<input type="checkbox"/> No entry/coordination requirements	<input checked="" type="checkbox"/> FOD-designated facility point-of-contact must sign IWD Part 3																	
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<input checked="" type="checkbox"/> Attend Plan of the Day/Plan of the Week (POTD/POTW)	<input checked="" type="checkbox"/> Check in daily																	
<input checked="" type="checkbox"/> Security clearance or escort required	<input checked="" type="checkbox"/> Check out daily																	
<input checked="" type="checkbox"/> Other security requirements (e.g., no cellphone or foreign nationals)	<input type="checkbox"/> Quality issues																	
<input checked="" type="checkbox"/> Review work under Authorization Basis / Safety Basis / Unreviewed Safety Question (USQ)	<input type="checkbox"/> Non-security escort required																	
	<input type="checkbox"/> Other bounding conditions: _____																	
Additional Comments: WETF is a Category II Nuclear Facility. Check in with the WETF Duty Operator, 7-2060, 16-205-110, prior to start of work. The WETF work control process must be followed. Security Requirements: No 2-way pagers or personal cell phones. Blackberries are allowed except in the "Closed Area". Government issued cellphones must have the battery removed. "Q"/"L" clearance required for all exterior areas of WETF. Un-Cleared personnel must be escorted at all times.																		
Instructions: In the block below, identify work area hazards that could potentially affect the worker(s) or others. Avoid using the same Part 2, Form 2101 for multiple facilities. Ensure that work area hazards specific to the facility or work location are identified and controlled. Specify the facility controls and preventive measures that must be implemented by the worker(s) to protect against the work area hazards, including any unique or special training required because of work area conditions/hazards.																		
ESH/S&S WORK AREA HAZARDS AND CONTROLS																		
Work Area Hazards/Concerns Identify site hazards and concerns that could potentially affect the worker(s) or others.	Work Area Hazard Present	Facility Controls/ Preventive Measures/ Bounding Conditions Specify preventive measures, controls, and bounding conditions for each site hazard	Reference Documents List permits, operating manuals, and other procedures (if required in the field)	Training and Qualification (special or unique to the area)														
<input type="checkbox"/> No work area hazards																		

Spill Response and Clean Up in Weapons Facilities Operations (WFO) Areas

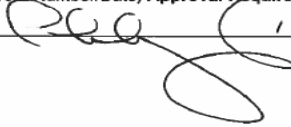
Attachment B
Integrated Work Document (IWD) Part 2 (Non Tenant) (cont'd)

Ionizing Radiation Work in posted radiological areas, work with radioactive materials, or work on or near radiation producing devices. Specify Hazard:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
IWD No./Work Request No.: _____ Revision No.: _____				
ESH/S&S WORK AREA HAZARDS AND CONTROLS				
Work Area Hazards/Concerns Identify site hazards and concerns that could potentially affect the worker(s) or others.	Work Area Hazard Present	Facility Controls/ Preventive Measures/ Bounding Conditions Specify preventive measures, controls, and bounding conditions for each site hazard	Reference Documents List permits, operating manuals, and other reference procedures	Training and Qualification List training requirements
Worker Exposure Working near non-ionizing radiation, beryllium, noise, chemicals, biological hazards, lead, asbestos, temperature/humidity extremes, nanoparticles, cryogens, or high explosives. Specify Hazards:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Energized and Operative Systems Working near energized electrical parts, pressure systems, steam lines; unprotected belts, pulleys, chains, rotating equipment; fuel-fired equipment (other than vehicles); or spark/flame-producing operations. Specify Hazards:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Confined Spaces Entry into tanks, manholes, cooling towers, sumps, or any other area with potentially low oxygen concentration or other hazards such as toxic vapors or engulfment. Specify Hazards:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Elevated Work Surface Unprotected elevated work (e.g., conventional guardrails are not provided) requiring fall protection per P101-20, Fall Protection Program , or a surface not designed to support worker(s) and equipment.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Environmental Activities conducted in areas containing potential release sites, contaminated soil, sensitive species, watercourse, wetlands, floodplains, historical/archeological sites, or other work area element that can impact, or be impacted by, the environment. Specify Hazards:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Security Requirements Specify:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Q or L Clearance or Escorted	P202-1 Security Areas, Property Protection Areas, and General Access Areas	U-Train 1425 Annual Security Refresher

Spill Response and Clean Up in Weapons Facilities Operations (WFO) Areas

Attachment B
Integrated Work Document (IWD) Part 2 (Non Tenant) (cont'd)

Other Hazards Specify: LEEDS (Low Energy Electro Explosive Devices) are present inside WETF.	<input checked="checked" type="checkbox"/> Yes <input type="checkbox"/> No	All radio frequency generating activities (e.g. GPR, XRF, ETC.) must be approved by the Operations Manager	P101-8 Explosives Safety
I have verified that the items indicated above adequately identify existing and potential area hazards associated with the work location and communicate facility-required controls that will enable safe, secure, and environmentally compliant work execution.			
FOD or Representative (Signature/Z Number/Date) Approval Required			

 12547 2/25/21

Spill Response and Clean Up in Weapons Facilities Operations (WFO) Areas

Document No.: WFO-IWD-0016

Revision: H

Effective Date: 02/25/2022

Attachment B Integrated Work Document (IWD) Part 2 (Non Tenant) (cont'd)



Form 2101

Integrated Work Document (IWD) Part 2 FOD Requirements and Approval for Entry and Area Hazards and Controls Non-Tenant

IWD No./Work Request No.: <u>WFO-IWD-0016</u> Revision No.: <u>H</u>																
The Facility Operations Director (FOD) or designee must determine the facility entry and coordination requirements and identify the area environment, safety, health (ESH)/security and safeguards (S&S) hazards and controls associated with the specific activity location.																
FOD 3	TA 16	Bldg. 824	Room All	Other Location												
FOD Designated Facility Point-of-Contact	Name Don Hyatt Mel Ortiz Jamie Vongphachan Cipriano Vigil	Phone 7-7519 7-5419 4-0842 7-3363	Pager 4-6314 4-3070 4-6254 4-7384	Email hyatt@lanl.gov msortiz@lanl.gov jvongphachan@lanl.gov cfvigil@lanl.gov												
General Requirement/Guidance: <ul style="list-style-type: none"> Workers in areas that have building or facility-specific training (FST) shall take the FST unless they are escorted by someone who is current in the training. Any abnormal event or condition, whether within or beyond the bounds of the assigned work area, must be reported to supervisors or first-line managers and the FOD. 																
Entry and Coordination Requirements (check one or more of the following): <table border="0"> <tr> <td><input type="checkbox"/> No entry/coordination requirements</td> <td><input type="checkbox"/> FOD-designated facility point-of-contact must sign IWD Part 3</td> </tr> <tr> <td><input type="checkbox"/> Schedule work with the FOD</td> <td><input checked="" type="checkbox"/> Facility-specific or other work area training required</td> </tr> <tr> <td><input checked="" type="checkbox"/> Attend Plan of the Day/Plan of the Week (POTD/POTW)</td> <td><input checked="" type="checkbox"/> Check in daily</td> </tr> <tr> <td><input checked="" type="checkbox"/> Security clearance or escort required</td> <td><input type="checkbox"/> Quality issues</td> </tr> <tr> <td><input checked="" type="checkbox"/> Other security requirements (e.g., no cellphone or foreign nationals)</td> <td><input type="checkbox"/> Non-security escort required</td> </tr> <tr> <td><input checked="" type="checkbox"/> Review work under Authorization Basis / Safety Basis / Unreviewed Safety Question (USQ)</td> <td><input type="checkbox"/> Other bounding conditions: _____</td> </tr> </table>					<input type="checkbox"/> No entry/coordination requirements	<input type="checkbox"/> FOD-designated facility point-of-contact must sign IWD Part 3	<input type="checkbox"/> Schedule work with the FOD	<input checked="" type="checkbox"/> Facility-specific or other work area training required	<input checked="" type="checkbox"/> Attend Plan of the Day/Plan of the Week (POTD/POTW)	<input checked="" type="checkbox"/> Check in daily	<input checked="" type="checkbox"/> Security clearance or escort required	<input type="checkbox"/> Quality issues	<input checked="" type="checkbox"/> Other security requirements (e.g., no cellphone or foreign nationals)	<input type="checkbox"/> Non-security escort required	<input checked="" type="checkbox"/> Review work under Authorization Basis / Safety Basis / Unreviewed Safety Question (USQ)	<input type="checkbox"/> Other bounding conditions: _____
<input type="checkbox"/> No entry/coordination requirements	<input type="checkbox"/> FOD-designated facility point-of-contact must sign IWD Part 3															
<input type="checkbox"/> Schedule work with the FOD	<input checked="" type="checkbox"/> Facility-specific or other work area training required															
<input checked="" type="checkbox"/> Attend Plan of the Day/Plan of the Week (POTD/POTW)	<input checked="" type="checkbox"/> Check in daily															
<input checked="" type="checkbox"/> Security clearance or escort required	<input type="checkbox"/> Quality issues															
<input checked="" type="checkbox"/> Other security requirements (e.g., no cellphone or foreign nationals)	<input type="checkbox"/> Non-security escort required															
<input checked="" type="checkbox"/> Review work under Authorization Basis / Safety Basis / Unreviewed Safety Question (USQ)	<input type="checkbox"/> Other bounding conditions: _____															
Additional Comments: WETF is a Category II Nuclear Facility. Check in with the WETF Duty Operator, 7-2060, 16-205-110, prior to start of work. The WETF work control process must be followed. Security Requirements: No 2-way pagers or personal cell phones. Blackberries are allowed except in the "Closed Area". Government issued cellphones must have the battery removed. "Q"/"L" clearance required for all exterior areas of WETF. Un-Cleared personnel must be escorted at all times.																
Instructions: In the block below, identify work area hazards that could potentially affect the worker(s) or others. Avoid using the same Part 2, Form 2101 for multiple facilities. Ensure that work area hazards specific to the facility or work location are identified and controlled. Specify the facility controls and preventive measures that must be implemented by the worker(s) to protect against the work area hazards, including any unique or special training required because of work area conditions/hazards.																
ESH/S&S WORK AREA HAZARDS AND CONTROLS																
Work Area Hazards/Concerns Identify site hazards and concerns that could potentially affect the worker(s) or others.	Work Area Hazard Present	Facility Controls/ Preventive Measures/ Bounding Conditions Specify preventive measures, controls, and bounding conditions for each site hazard	Reference Documents List permits, operating manuals, and other procedures (if required in the field)	Training and Qualification <i>(special or unique to the area)</i>												
<input type="checkbox"/> No work area hazards																

Form 2101 (04/21)

Page 1 of 3

Spill Response and Clean Up in Weapons Facilities Operations (WFO) Areas

Attachment B
Integrated Work Document (IWD) Part 2 (Non Tenant) (cont'd)

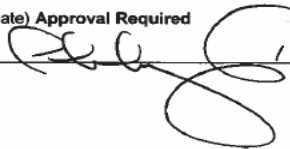
Ionizing Radiation Work in posted radiological areas, work with radioactive materials, or work on or near radiation producing devices. Specify Hazard:		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
IWD No./Work Request No.: Revision No.:					
ESH/S&S WORK AREA HAZARDS AND CONTROLS					
Work Area Hazards/Concerns Identify site hazards and concerns that could potentially affect the worker(s) or others.	Work Area Hazard Present	Facility Controls/ Preventive Measures/ Bounding Conditions Specify preventive measures, controls, and bounding conditions for each site hazard	Reference Documents List permits, operating manuals, and other reference procedures	Training and Qualification List training requirements	
Worker Exposure Working near non-ionizing radiation, beryllium, noise, chemicals, biological hazards, lead, asbestos, temperature/humidity extremes, nanoparticles, cryogenics, or high explosives. Specify Hazards:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
Energized and Operative Systems Working near energized electrical parts, pressure systems, steam lines; unprotected belts, pulleys, chains, rotating equipment; fuel-fired equipment (other than vehicles); or spark/flame-producing operations. Specify Hazards:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
Confined Spaces Entry into tanks, manholes, cooling towers, sumps, or any other area with potentially low oxygen concentration or other hazards such as toxic vapors or engulfment. Specify Hazards:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
Elevated Work Surface Unprotected elevated work (e.g., conventional guardrails are not provided) requiring fall protection per P101-20, Fall Protection Program , or a surface not designed to support worker(s) and equipment.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
Environmental Activities conducted in areas containing potential release sites, contaminated soil, sensitive species, watercourse, wetlands, floodplains, historical/archeological sites, or other work area element that can impact, or be impacted by, the environment. Specify Hazards:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
Security Requirements Specify:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Q or L Clearance or Escorted	P202-I Security Areas, Property Protection Areas, and General Access Areas	U-Train 1425 Annual Security Refresher	
Other Hazards Specify:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				

Spill Response and Clean Up in Weapons Facilities Operations (WFO) Areas

Attachment B
Integrated Work Document (IWD) Part 2 (Non Tenant) (cont'd)

I have verified that the items indicated above adequately identify existing and potential area hazards associated with the work location and communicate facility-required controls that will enable safe, secure, and environmentally compliant work execution.

FOD or Representative (Signature/Z Number/Date) Approval Required

 12587 8/15/24

Spill Response and Clean Up in Weapons Facilities Operations (WFO) Areas

Attachment B
Integrated Work Document (IWD) Part 2 (Non Tenant) (cont'd)



Form 2101

Integrated Work Document (IWD) Part 2
FOD Requirements and Approval for Entry and Area Hazards and Controls
Non-Tenant

IWD No./Work Request No: <u>WFO-IWD-001</u> Revision No.: <u>H</u>				
The Facility Operations Director (FOD) or designee must determine the facility entry and coordination requirements and identify the area environment, safety, health (ESH)/security and safeguards (S&S) hazards and controls associated with the specific activity location.				
FOD WFO	TA 15	Bldg. 312	Room All Interior and Exteriors Spaces	Other Location 15-0662, DARHT Weather Enclosure (Firing Point)
FOD Designated Facility Point-of-Contact	Name Joseph F Dabney III	Phone 505-665-4598	Pager 505-664-5561	Email jdabney@lanl.gov
General Requirement/Guidance: • Workers in areas that have building or facility-specific training (FST) shall take the FST unless they are escorted by someone who is current in the training. • Any abnormal event or condition, whether within or beyond the bounds of the assigned work area, must be reported to supervisors or first-line managers and the FOD.				
Entry and Coordination Requirements (check one or more of the following): <input type="checkbox"/> No entry/coordination requirements <input checked="" type="checkbox"/> Schedule work with the FOD <input checked="" type="checkbox"/> Attend Plan of the Day/Plan of the Week (POTD/POTW) <input checked="" type="checkbox"/> Security clearance or escort required <input checked="" type="checkbox"/> Other security requirements (e.g., no cellphone or foreign nationals) <input checked="" type="checkbox"/> Review work under Authorization Basis / Safety Basis / Unreviewed Safety Question (USQ) <input checked="" type="checkbox"/> FOD-designated facility point-of-contact must sign IWD Part 3 <input type="checkbox"/> Facility-specific or other work area training required <input checked="" type="checkbox"/> Check in daily <input type="checkbox"/> Check out daily <input type="checkbox"/> Quality issues <input type="checkbox"/> Non-security escort required <input type="checkbox"/> Other bounding conditions: _____				
Additional Comments: All work at DARHT must be on the approved DARHT Plan of the Day(POD). Workers must sign in, and out on a daily basis.				
Instructions: In the block below, identify work area hazards that could potentially affect the worker(s) or others. Avoid using the same Part 2, Form 2101 for multiple facilities. Ensure that work area hazards specific to the facility or work location are identified and controlled. Specify the facility controls and preventive measures that must be implemented by the worker(s) to protect against the work area hazards, including any unique or special training required because of work area conditions/hazards.				
ESH/S&S WORK AREA HAZARDS AND CONTROLS				
Work Area Hazards/Concerns Identify site hazards and concerns that could potentially affect the worker(s) or others.	Work Area Hazard Present	Facility Controls/ Preventive Measures/ Bounding Conditions Specify preventive measures, controls, and bounding conditions for each site hazard	Reference Documents List permits, operating manuals, and other procedures (if required in the field)	Training and Qualification (special or unique to the area)
<input type="checkbox"/> No work area hazards				


Spill Response and Clean Up in Weapons Facilities Operations (WFO) Areas

Attachment B
Integrated Work Document (IWD) Part 2 (Non Tenant) (cont'd)

Ionizing Radiation Work in posted radiological areas, work with radioactive materials, or work on or near radiation producing devices. Specify Hazard:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Accelerator Halls and the Weather Enclosure are exclusion areas during Accelerator Mode 2 or 3 operations.		
IWD No./Work Request No.: Revision No.:				
ESH/S&S WORK AREA HAZARDS AND CONTROLS				
Work Area Hazards/Concerns Identify site hazards and concerns that could potentially affect the worker(s) or others.	Work Area Hazard Present	Facility Controls/ Preventive Measures/ Bounding Conditions Specify preventive measures, controls, and bounding conditions for each site hazard	Reference Documents List permits, operating manuals, and other reference procedures	Training and Qualification List training requirements
Worker Exposure Working near non-ionizing radiation, beryllium, noise, chemicals, biological hazards, lead, asbestos, temperature/humidity extremes, nanoparticles, cryogenics, or high explosives. Specify Hazards:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Access Gates are controlled by the Access Control Office (ACO). If an unanticipated barrier is encountered contact ACO for instruction.	WFO-TRN-005	Required Reading 30299 - Required for unescorted visitor personnel.
Energized and Operative Systems Working near energized electrical parts, pressure systems, steam lines; unprotected belts, pulleys, chains, rotating equipment; fuel-fired equipment (other than vehicles); or spark/flare-producing operations. Specify Hazards:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Confined Spaces Entry into tanks, manholes, cooling towers, sumps, or any other area with potentially low oxygen concentration or other hazards such as toxic vapors or engulfment. Specify Hazards:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Elevated Work Surface Unprotected elevated work (e.g., conventional guardrails are not provided) requiring fall protection per P101-20, Fall Protection Program , or a surface not designed to support worker(s) and equipment.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Environmental Activities conducted in areas containing potential release sites, contaminated soil, sensitive species, watercourse, wetlands, floodplains, historical/archeological sites, or other work area element that can impact, or be impacted by, the environment. Specify Hazards:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Security Requirements Specify:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Q-Cleared, or Escorted		
Other Hazards Specify:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Exclusion area locked with Engineered controls.		

Spill Response and Clean Up in Weapons Facilities Operations (WFO) Areas

Attachment B
Integrated Work Document (IWD) Part 2 (Non Tenant) (cont'd)

I have verified that the items indicated above adequately identify existing and potential area hazards associated with the work location and communicate facility-required controls that will enable safe, secure, and environmentally compliant work execution.	
FOD or Representative (Signature/Z Number/Date) Approval Required	 Digitally signed by JOSEPH DABNEY (Affiliate) Date: 2021.10.07 09:07:45 -06'00'

Spill Response and Clean Up in Weapons Facilities Operations (WFO) Areas

Attachment C Integrated Work Document (IWD) Part 2 (Tenant)



Integrated Work Document (IWD) Part 2,
FOD Requirements and Approval for Entry and Area Hazards and Controls

Form 2102

Tenant
Activity Form

IWD No./Work Request No: WFO-IWD-0016 Spill Response and Clean Up in Weapons Facilities Operations (WFO) Areas

Revision #: H

FOD must determine the facility entry and coordination requirements and identify the ESH/S&S hazards and controls associated with the activity location.

FOD 3	TA 6, 8, 9, 11, 14, 15, 16, 22, 36, 37, 39, 40, 49, 67, 68	Bldg. All except WETF & DARHT	Room All	Other Location N/A
FOD Designated Facility Point-of-Contact	Name John Branch, WFO OM Designee Erlinda Gonzales, WFO OM Designee Christina Archuleta-Mares, WFO OM Designee Ryan Locke, WFO OM Designee	Phone 412-9696 412-8133 231-7583 500-6727	Pager	Email jbranch@lanl.gov etmedina@lanl.gov xtina@lanl.gov rlocke@lanl.gov

Entry and Coordination Requirements (Check one or more of the following):

<input type="checkbox"/> No Entry/Coordination Requirements	<input type="checkbox"/> FOD designated facility point-of-contact must sign IWD Part 3
<input type="checkbox"/> POTD/POTW	<input checked="" type="checkbox"/> Check in at Start of Work
<input type="checkbox"/> Work must be Scheduled	<input type="checkbox"/> Check in Daily
<input checked="" type="checkbox"/> Co-located Hazards/Concerns	<input checked="" type="checkbox"/> Check out at End of Work
<input type="checkbox"/> Review under AB/Safety Basis/USQ	<input type="checkbox"/> Check out Daily
	<input checked="" type="checkbox"/> Work-Area Training Required
	<input type="checkbox"/> Escort Required
	<input type="checkbox"/> Quality Issues
	<input checked="" type="checkbox"/> Other Bounding Conditions <u>CAUTION: NO ENTRY to Confined Spaces under this 2102.</u>
	<input checked="" type="checkbox"/> Security Clearance Requirements
	<input type="checkbox"/> Other Security Requirements

Instructions: In the block below, provide facility or work-area information needed by the workers on this activity. (Things to consider include specific work-area hazards and controls, potential conflicts with co-located activities, or any facility restrictions on the activity.) Identify relevant reference documents and any training required.

Facility/Work-Area Information Relevant to this Activity

Work within VTRs requires check-in first with appropriate Access Control Office and coordination with respective Program Office to ensure coordination with programmatic activities.

Follow ALL Postings:

TA-6

ACCESS CONTROL: Work within TA-6 requires check-in first with TA-40-1 ACO for access to fire roads, canyons, etc. Inform ACO what locations and routes will be taken while on site (use a map of area if possible).

Form 2102 (4/12)

Page ____ of ____

Spill Response and Clean Up in Weapons Facilities Operations (WFO) Areas

Attachment C Integrated Work Document (IWD) Part 2 (Tenant) (cont'd)

Specify Hazards: PRS, sensitive species-e.g. spotted owl, historical/archeological sites, and waste generation.

- PRS exists. Notify WFO Environmental Generalist, if required.
- Archeological sites exist within open areas. Do not disturb any marked archeological sites. If entry into any area required contact Environmental Stewardship Group.
- Work during threatened and endangered species seasons will restricts outdoor activities.
- Excavation Permit for soil disturbance activities

TA-8

ACCESS CONTROL: Must check-in with TA-8-21 Access Control to sign in locally and receive a briefing on site hazards AND to inform ACO what locations and routes will be taken while on site (use a map of area if possible).

CAUTION: This area uses Radiography equipment – specifically Buildings TA-8-22, TA-8-23, TA-8-70, and TA-8-120. Work group shall adhere to all local ACO instructions as to where access is allowed and where it is restricted, e.g. areas around buildings performing radiography.

Specify Hazards: Radiography Activities, High Explosives Area, PRS, sensitive species-e.g. spotted owl, historical/archeological sites, and waste generation.

- PRS exists. Notify WFO Environmental Generalist, if required.
- Archeological sites exist within open areas. Do not disturb any marked archeological sites. If entry into any area required contact Environmental Stewardship Group.
- Work during threatened and endangered species seasons will restricts outdoor activities.
- Excavation Permit for soil disturbance activities

TA-9

ACCESS CONTROL: Work within TA-9 requires check-in first with TA-9 ACO for access.

CAUTION: This area is a HE Area. Work group shall adhere to all TA-9 local ACO instructions as to where access is allowed and where it is restricted, e.g. areas around HE facilities and magazines.

Specify Hazards: High Explosives Area, PRS, sensitive species-e.g. spotted owl, historical/archeological sites, and waste generation.

- PRS exists. Notify WFO Environmental Generalist, if required.
- Work during threatened and endangered species seasons restricts outdoor activities.
- Excavation Permit for soil disturbance activities

TA-11

ACCESS CONTROL: Work within TA-11 requires check-in first with TA-16 ACO for access to fire roads, canyons, etc. AND to inform ACO what locations and routes will be taken while on site (use a map of area if possible).

CAUTION: This area has resumed High Explosive Operations. Work group shall adhere to all local ACO instructions and posted area as to where access is allowed and where it is restricted.

ESH CONCERNS: Entry into HE and DU contaminated areas may be required. Notify the TA-16 ACO prior to accessing areas to ensure area is safe for activities and to coordinate RCT support.

Specify Hazards: High Explosives Area, PRS, sensitive species-e.g. spotted owl, historical/archeological sites, and waste generation.

- Follow all postings
- PRS exists. Notify WFO Environmental Generalist, if required.
- Archeological sites exist within open areas. Do not disturb any marked archeological sites. If entry into any area required contact Environmental Stewardship Group.

Attachment C Integrated Work Document (IWD) Part 2 (Tenant) (cont'd)

- Work during threatened and endangered species seasons will restricts outdoor activities.
- Excavation Permit for soil disturbance activities

TA-14

ACCESS CONTROL: Work within TA-14 requires check-in first with TA-15 ACO for access to fire roads, canyons, etc. AND to inform ACO what locations and routes will be taken while on site (use a map of area if possible).

CAUTION: This area is a HE Firing Site Area. Work group shall adhere to all local ACO instructions as to where access is allowed and where it is restricted, e.g. areas around firing sites.

ESH CONCERNS: Entry into HE and DU contaminated areas may be required. Notify the TA-15 ACO and area Group office prior to accessing area to ensure area is safe for activities and to coordinate RCT support.

- Follow all postings
 - Contact applicable SME as needed: IH, RCT, ExSO
- Specify Hazards: High Explosives Area, PRS, sensitive species-e.g. spotted owl, historical/archeological sites, and waste generation.

- PRS exists. Notify WFO Environmental Generalist, if required.
- Archeological sites exist within open areas. Do not disturb any marked archeological sites. If entry into any area required contact Environmental Stewardship Group.
- Work during threatened and endangered species seasons will restricts outdoor activities.
- Excavation Permit for soil disturbance activities

TA-15

ACCESS CONTROL: Work within TA-15 requires check-in first with TA-15 ACO for access to fire roads, canyons, etc. and to get a radio AND to inform ACO what locations and routes will be taken while on site (use a map of area if possible).

CAUTION: This area is a HE Firing Site Area. Work group shall adhere to all local ACO instructions as to where access is allowed and where it is restricted, e.g. areas around firing sites.

ESH CONCERNS: Entry into HE, beryllium, and DU contaminated areas may be required. Notify the TA-15 ACO and area Group office prior to accessing area to ensure area is safe for activities and to coordinate RCT support.

Specify Hazards: High Explosives Area, PRS, sensitive species-e.g. spotted owl, historical/archeological sites, and waste generation.

- PRS exists. Notify WFO Environmental Generalist, if required.
- Archeological sites exist within open areas. Do not disturb any marked archeological sites. If entry into any area required contact Environmental Stewardship Group.
- Work during threatened and endangered species seasons will restricts outdoor activities.
- Excavation Permit for soil disturbance activities

TA-16

ACCESS CONTROL: Work within TA-16 requires check-in first with TA-16 ACO for access to fire roads, canyons, etc. and to get a radio AND to inform ACO what locations and routes will be taken while on site (use a map of area if possible).

CAUTION: This area is a High Explosives Area. Work group shall adhere to all local ACO instructions as to where access is allowed and where it is restricted, e.g. areas around firing sites.

Specify Hazards: High Explosives Area, PRS, sensitive species-e.g. spotted owl, historical/archeological sites, and waste generation.

- PRS exists. Notify WFO Environmental Generalist, if required.

Spill Response and Clean Up in Weapons Facilities Operations (WFO) Areas

Attachment C Integrated Work Document (IWD) Part 2 (Tenant) (cont'd)

- Archeological sites exist within open areas. Do not disturb any marked archeological sites. If entry into any area required contact Environmental Stewardship Group.
- Work during threatened and endangered species seasons will restricts outdoor activities.
- Excavation Permit for soil disturbance activities

TA-22

ACCESS CONTROL: Work within TA-22 requires check-in first with TA-22 ACO for access to fire roads, canyons, etc. and to get a radio AND to inform ACO what locations and routes will be taken while on site (use a map of area if possible).

CAUTION: This area is a High Explosives Area. Work group shall adhere to all local ACO insructions as to where access is allowed and where it is restricted, e.g. areas around HE facilites and magazines.

Specify Hazards: High Explosives Area, PRS, sensitive species-e.g. spotted owl, historical/archeological sites, and waste generation.

- PRS exists. Notify WFO Environmental Generalist, if required.
- Archeological sites exist within open areas. Do not disturb any marked archeological sites. If entry into any area required contact Environmental Stewardship Group.
- Work during threatened and endangered species seasons will restricts outdoor activities.
- Excavation Permit for soil disturbance activities

TA-36

ACCESS CONTROL: Work within TA-36 requires check-in first with TA-15 ACO for access to fire roads, canyons, etc. and to get a radio AND to inform ACO what locations and routes will be taken while on site (use a map of area if possible).

CAUTION: This area is a Firing Site Area. Work group shall adhere to all local ACO insructions as to where access is allowed and where it is restricted, e.g. areas around firing sites.

ESH CONCERNS: Entry into HE, beryllium, and DU contaminated areas may be required. Notify the TA-15 ACO prior to accessing area to ensure area is safe for activities and to coordinate SME support (ExSO, IH, RCT).

Specify Hazards: High Explosives Area, PRS, sensitive species-e.g. spotted owl, historical/archeological sites, and waste generation.

- PRS exists. Notify WFO Environmental Generalist, if required.
- Archeological sites exist within open areas. Do not disturb any marked archeological sites. If entry into any area required contact Environmental Stewardship Group.
- Work during threatened and endangered species seasons will restricts outdoor activities.
- Excavation Permit for soil disturbance activities

TA-37

ACCESS CONTROL: Work within TA-37 requires check-in first with TA-16 ACO for access to fire roads, canyons, etc. and to get a radio AND to inform ACO what locations and routes will be taken while on site (use a map of area if possible).

CAUTION: This area is a High Explosives Magazine Area

Specify Hazards: High Explosives Area, PRS, sensitive species-e.g. spotted owl, historical/archeological sites, and waste generation.

- PRS exists. Notify WFO Environmental Generalist, if required.
- Archeological sites exist within open areas. Do not disturb any marked archeological sites. If entry into any area required contact Environmental Stewardship Group.

Spill Response and Clean Up in Weapons Facilities Operations (WFO) Areas

Attachment C Integrated Work Document (IWD) Part 2 (Tenant) (cont'd)

- Work during threatened and endangered species seasons will restricts outdoor activities.
- Excavation Permit for soil disturbance activities

TA-39

ACCESS CONTROL: Work within TA-39 requires check-in first with TA-39 ACO for access to fire roads, canyons, etc. and to get a radio AND to inform ACO what locations and routes will be taken while on site (use a map of area if possible).

CAUTION: This area is a HE Firing Site Area. Work group shall adhere to all local ACO instructions as to where access is allowed and where it is restricted, e.g. areas around firing sites.

ESH CONCERNS: Entry into HE and DU contaminated areas (off-road) may be required. Notify the TA-39 ACO and area Group office prior to accessing area to ensure area is safe for activities and to coordinate RCT support.

Specify Hazards: High Explosives Area, PRS, sensitive species-e.g. spotted owl, historical/archeological sites, and waste generation.

- PRS exists. Notify WFO Environmental Generalist, if required.
- Archeological sites exist within open areas. Do not disturb any marked archeological sites. If entry into any area required contact Environmental Stewardship Group.
- Work during threatened and endangered species seasons will restricts outdoor activities.
- Excavation Permit for soil disturbance activities

TA-40

ACCESS CONTROL: Work within TA-40 requires check-in first with TA-40 ACO for access to fire roads, canyons, etc. and to get a radio AND to inform ACO what locations and routes will be taken while on site (use a map of area if possible).

CAUTION: This area is a HE Firing Site Area – specifically buildings TA-40-5, TA-40-8, TA-40-9, and TA-40-15. Work group shall adhere to all local ACO instructions as to where access is allowed and where it is restricted, e.g. areas around firing sites.

Specify Hazards: Designated/Posted Contamination Areas: Beryllium, Depleted Uranium, High Explosive Area, PRS, sensitive species-e.g. spotted owl, historical/archeological sites, and waste generation.

- Follow all postings
- PRS exists. Notify WFO Environmental Generalist, if required.
- Archeological sites exist within open areas. Do not disturb any marked archeological sites. If entry into any area required contact Environmental Stewardship Group.
- Work during threatened and endangered species seasons will restricts outdoor activities.
- Excavation Permit for soil disturbance activities

TA-49

ACCESS CONTROL: Work within TA-49 requires check-in first with TA-16 ACO for access to fire roads, canyons, etc. and to get a radio AND to inform ACO what locations and routes will be taken while on site (use a map of area if possible).

Accessing the HE Area within TA-49 also requires check in at TA-49-113.

Specify Hazards: Designated/Posted Contamination Areas: Beryllium, Depleted Uranium, High Explosive Area, PRS, sensitive species-e.g. spotted owl, historical/archeological sites, and waste generation.

- Follow all postings
- PRS exists. Notify WFO Environmental Generalist, if required.

Form 2102 (4/12)

Page ____ of ____

Spill Response and Clean Up in Weapons Facilities Operations (WFO) Areas

Attachment C Integrated Work Document (IWD) Part 2 (Tenant) (cont'd)

<ul style="list-style-type: none">• Archeological sites exist within open areas. Do not disturb any marked archeological sites. If entry into any area required contact Environmental Stewardship Group.• Work during threatened and endangered species seasons will restricts outdoor activities.• Excavation Permit for soil disturbance activities <p>TA-67 ACCESS CONTROL: Work within TA-67 requires check-in first with TA-15 ACO for access to fire roads, canyons, etc. and to get a radio AND to inform ACO what locations and routes will be taken while on site (use a map of area if possible). CAUTION: This area is near a Firing Site Area. Work group shall adhere to all local ACO insructions as to where access is allowed and where it is restricted, e.g. areas around firing sites.</p> <p>Specify Hazards: Designated/Posted Contamination Areas: Beryllium, Depleted Uranium, High Explosive, PRS, sensitive species-e.g. spotted owl, historical/archeological sites, and waste generation.</p> <ul style="list-style-type: none">• Follow all postings• PRS exists. Notify WFO Environmental Generalist, if required.• Archeological sites exist within open areas. Do not disturb any marked archeological sites. If entry into any area required contact Environmental Stewardship Group.• Work during threatened and endangered species seasons will restricts outdoor activities.• Excavation Permit for soil disturbance activities <p>TA-68 ACCESS CONTROL: Work within TA-68 requires check-in first with TA-15 ACO for access to fire roads, canyons, etc. and to get a radio AND to inform ACO what locations and routes will be taken while on site (use a map of area if possible). CAUTION: This area is near a Firing Site Area. Work group shall adhere to all local ACO insructions as to where access is allowed and where it is restricted, e.g. areas around firing sites.</p> <p>Specify Hazards: Designated/Posted Contamination Areas: Beryllium, Depleted Uranium, High Explosive, PRS, sensitive species-e.g. spotted owl, historical/archeological sites, and waste generation.</p> <ul style="list-style-type: none">• Follow all postings• Contact applicable SME as needed: IH, RCT, ExSO• PRS exists. Notify WFO Environmental Generalist, if required.• Archeological sites exist within open areas. Do not disturb any marked archeological sites. If entry into any area required contact Environmental Stewardship Group.• Work during threatened and endangered species seasons will restricts outdoor activities.• Excavation Permit for soil disturbance activities <p>ABNORMAL EVENTS: Any injury, accident, spill, off normal occurrence, etc. MUST be reported immediately to the WFO-FOD Duty Officer @ 664-2926 AND the Access Control Office.</p> <p>Reference Documents: P101-8, Explosives Safety; P121 Radiation Safety; P101-21 Chronic Beryllium Disease Prevention Program, WFO-OP-1137 WFO Lightning Threat Actions, WFO-BEP-378 WFO Building Emergency Plan</p> <p>Training Requirements: Per: WFO-IWD-0016, Spill Response and Clean Up in Weapons Facilities Operations (WFO) Areas, Site Specific Training for ALL areas</p>

Spill Response and Clean Up in Weapons Facilities Operations (WFO) Areas

Attachment C Integrated Work Document (IWD) Part 2 (Tenant) (cont'd)

FOD Approval	
I have verified that the hazards identified above adequately identify the area hazards and that the IWM process has been applied appropriately.	
FOD or Representative (Signature/Z #/Date) Approval Required	<u>JOHN BRANCH (Affiliate)</u> <small>Digitally signed by JOHN BRANCH (Affiliate) Date: 2021.10.20 07:55:36 -06'00'</small>
Date Approval Expires: <u>Upon Expiration of WFO-IWD-0016, Spill Response and Clean Up in Weapons Facilities Operations (WFO) Areas, Rev. H</u>	

**Spill Response and Clean Up in Weapons Facilities
Operations (WFO) Areas**

Document No.: WFO-IWD-00016

Revision: H

Effective Date: 02/25/2022

**Attachment D Integrated Work Document (IWD) Part 3 Validation and Work Release
Validation and Work Release**



Form 2103

**Integrated Work Document (IWD) Part 3,
Validation and Work Release**

• IWD #**WFO-IWD-0016**

Revision #: **H** Work Release

By signing below, I verify this activity is compatible with current facility configuration and operating conditions.

FOD designated Operations Manager or other facility point-of-contact for work area

Signature/Z#/Date (If required by FOD): JOHN BRANCH (Affiliate) Digitally signed by JOHN BRANCH (Affiliate)
Date: 2022.02.22 13:21:12 -07'00'

Note: For Standing IWD, release may be given concurrently with signatures on Part 2.

By signing below, I have verified the following:

- I have verified authorization by ensuring approval signatures of the RLM and FOD.
- I have jointly conducted a validation walkdown with workers to confirm the IWD can be performed as written, and that required initial conditions and other prerequisites are in place.
- The assigned workers are authorized and are competent to perform the work in a safe, secure, and environmentally responsible manner.
- I have conducted the pre-job briefing, and all workers (including support workers) have been briefed.
- I have ensured coordination with any required FOD work-area representatives (e.g., area work coordinators).

PIC (Signature/Z#/Date) Required: _____

Alternate PIC Signatures **acknowledges** PIC authority is assumed for the first time. (*Note: Alternate PICs are required to sign only once, but formal handoff includes conferring with previous PIC to obtain all required information associated with the handoff.*)

Alternate PIC (Signature/Z#/Date) Required: _____

Alternate PIC (Signature/Z#/Date) Required: _____

Pre-Job Brief Content

- What are the critical steps* or phases of this activity?
- How can we make a mistake at that point?
- What is the worst thing that can go wrong?
- What controls, preventive measures, and bounding conditions are needed?
- What work permits are required and how will we meet their requirements?
- What are the handoffs and coordination requirements among workers and multiple PICs?
- Are there hold-points including those that require sign-offs?
- What are the pause/stop work responsibilities and expectations (e.g., for unanticipated conditions or hazards)?
- How would we respond to alarms and emergencies?
- Are there lessons learned from previous similar work?
- Is other information needed to perform this activity in a safe, secure, and environmentally responsible manner?
- Does everyone agree to the work tasks/steps, hazards, and controls and commit to follow them?

* "Critical steps occur anytime human performance involves a substantial transfer of energy, or movement of solids, liquids, and gases, or the transmission of data and information that, if not performed under control, could cause serious harm to one or more important assets." (Performance Improvement, vol. 53, no. 9, October 2014)

**Spill Response and Clean Up in Weapons Facilities
Operations (WFO) Areas**

Document No.: WFO-IWD-00016

Revision: H

Effective Date: 02/25/2022

IWD #WFO-IWD-0016

Revision #:H Work Release

Pre-Job Brief Attendance Roster

By signing below as required , I agree to the following:	
<ul style="list-style-type: none">• I agree to follow the work steps and implement the controls as written as applicable to my work assignments.• I agree to pause/stop work when conditions or hazards change or when I encounter unexpected conditions during the execution of work, or when work cannot be performed as written, or instructions become unclear during execution.• I confirm that I am authorized, qualified, and fit to perform the work.	
Worker (Signature/Z#/Date)	Worker (Signature/Z#/Date)
Worker (Signature/Z#/Date)	Worker (Signature/Z#/Date)
Worker (Signature/Z#/Date)	Worker (Signature/Z#/Date)
Worker (Signature/Z#/Date)	Worker (Signature/Z#/Date)
Worker (Signature/Z#/Date)	Worker (Signature/Z#/Date)
Worker (Signature/Z#/Date)	Worker (Signature/Z#/Date)
Worker (Signature/Z#/Date)	Worker (Signature/Z#/Date)

**Spill Response and Clean Up in Weapons Facilities
Operations (WFO) Areas**

Document No.: WFO-IWD-0016

Revision: H

Effective Date: 02/25/2022

**Attachment E
Integrated Work Document (IWD) Part 4, (Feedback/Post Job Reviews)**

IWD #: WFO-IWD-0016 **Revision #:** H

Feedback of ongoing activities/post job review with the workers and Person in Charge (PIC) should include the following:

- identify inefficiencies, problems during the activity, coordination issues, unanticipated conditions, near misses; and
- develop recommendations for improvement.

A post-job review with the workers and PIC should include the following:

- verify that the activity is complete and make notifications in accordance with Facility Operations Director (FOD) requirements; and
- ensure that follow-through actions (e.g., clean-up, recycle, waste disposal, equipment removal, and secure storage) are completed.

Lessons learned; safety, security, and environmental issues; coordination issues; and unexpected conditions.

Suggested improvements to enter into the Job Hazard Analysis (JHA) Tool, FootPrints, or other Integrated Work Control data bases supported by [Lessons Learned](#).

Other recommendations for improvements to performing this activity. State the positive attributes of this activity.

Completion Statement

Name (print) of PIC/Z #:	Signature	Date
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