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Steam Plant

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MSGP Stormwater Pollution Prevention Plan for:

TA-03-22 Power and Steam Plant

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

January 2020

Revision 1

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TABLE OF CONTENTS

PREF	ACE	6
1.0	FACILITY DESCRIPTION	6
1.1	Facility Information	θ
1.2	Stormwater Pollution Prevention Team (PPT)	7
1.3	Site Description	
1.4	General Location Map	
1.5	Site Map	
2.0	POTENTIAL POLLUTANT SOURCES	
2.1	Potential Pollutants Associated with Industrial Activity	
2.2	Spills and Leaks	15
2.3	Unauthorized Non-Stormwater Discharges	18
2.4	Salt Storage	18
2.5	Historical Data Summary	19
3.0	STORMWATER CONTROL MEASURES	20
3.1	Non-Numeric Technology-Based Effluent Limits	20
	3.1.1 Minimize Exposure	20
	3.1.2 Good Housekeeping	
	3.1.3 Maintenance	
	3.1.4 Spill Prevention and Response	
	3.1.5 Erosion and Sediment Control	
	3.1.7 Salt Storage Piles or Piles Containing Salt	
	3.1.8 Dust Generation and Vehicle Tracking of Industrial Materials	
3.2	Numeric Effluent Limitations Based on Effluent Limitations Guidelines	23
3.3	Water Quality-Based Effluent Limitations and Water Quality Standards	24
4.0	SCHEDULES AND PROCEDURES	24
4.1	Good Housekeeping	24
4.2	Maintenance	24
4.3	Spill Prevention and Response	24
4.4	Erosion and Sediment Control	24
4.5	Employee Training	24
4.6	Routine Facility Inspections and Quarterly Visual Assessments	25

		outine Facility Inspectionsuarterly Visual Assessments	
4.7		ng	
5.0	DOCUMI	ENTATION FOR ELIGIBILITY CONSIDERATIONS UNDER OTHER FEDERAL LAV	/ S30
5.1	Endanger	ed Species	30
5.2	Historic P	roperties	30
6.0	CORRECT	TIVE ACTIONS AND DEADLINES	31
6.1	Immediat	te Actions	31
6.2	Subseque	ent Actions	31
6.3	Corrective	e Action Documentation	32
7.0	ACRONY	MS	32
8.0	SWPPP C	CERTIFICATION	34
FIGUR	F A: GFNF	RAL LOCATION MAP	35
FIGUR		CILITY SITE MAP (TA-3-22 POWER & STEAM PLANT INDUSTRIAL ACTIVITY AAS)	36
FIGUR	E B-2: FAC	CILITY SITE MAP (TA-3-22 POWER & STEAM PLANT BMPS)	37
FIGUR	E B-3: NE	ARBY RECEIVING WATERS MAP	38
FIGUR	E B-4: LAN	NL ENDANGERED SPECIES MAP	39
ATTAC	HMENT 1	: NOTICE OF INTENT, SUPPORTING DOCUMENTATION, AND UPDATES	40
ATTAC	CHMENT 2	: SWPPP AMENDMENTS	41
ATTAC	HMENT 3	: CERTIFICATION OF NO UNAUTHORIZED STORMWATER DISCHARGES	42
ATTAC	HMENT 4	: DULY AUTHORIZED SIGNATORY MEMORANDUM	43
ATTAC	HMENT 5	: DISCHARGE MONITORING REPORTS	44
ATTAC	CHMENT 6	: ANNUAL REPORTS	45
ATTAC	HMENT 7	: ROUTINE FACILITY INSPECTIONS	46
ATTAC	CHMENT 8	: QUARTERLY VISUAL ASSESSMENTS	47
ATTAC	HMENT 9	: CORRECTIVE ACTION DOCUMENTATION AND CERTIFICATION	48

ATTACHMENT 10:	SCHEDULED MAINTENANCE LOG4	9
ATTACHMENT 11:	TRAINING DOCUMENTATION	60
ATTACHMENT 12:	MSGP (OR ACTIVE URL)	51
	THREATENED AND ENDANGERED SPECIES HABITAT MANAGEMENT PLAN AMOS NATIONAL LABORATORY5	
ATTACHMENT 14:	MSGP IPAC TRUST RESOURCES REPORT	;3
ATTACHMENT 15:	ENV-CP-QAPP-MSGP5	54
ATTACHMENT 16:	EPC-CP-QP-023, MSGP ROUTINE FACILITY INSPECTIONS	5
ATTACHMENT 17:	EPC-CP-QP-022, MSGP CORRECTIVE ACTIONS	6
ATTACHMENT 18:	EPC-CP-QP-064, MSGP STORMWATER VISUAL ASSESSMENTS 5	57
	EPC-CP-QP-047, INSPECTING STORMWATER RUNOFF SAMPLERS AND SAMPLES FOR THE MSGP5	58
ATTACHMENT 20:	EPC-CP-QP-2106, PROCESSING MSGP STORMWATER SAMPLES 5	;9
	EPC-DO-QP-101, ENVIRONMENTAL REPORTING REQUIREMENTS FOR REVENTS6	50
ATTACHMENT 22:	ENV-CP-QP-007, SPILL INVESTIGATIONS	51
	EPC-CP-QP-2110, MSGP STORMWATER POLLUTION PREVENTION PLAN ON AND MAINTENANCE6	52
	SPILL PREVENTION CONTROL AND COUNTERMEASURES PLAN PREPARED	

TA-03-22 Power and Steam Plant STORMWATER POLLUTION PREVENTION PLAN

PREFACE

This Stormwater Pollution Prevention Plan (SWPPP) was developed in accordance with the provisions of the Clean Water Act (33 U.S.C. §§1251 et seq., as amended), and the *United States Environmental Protection Agency (EPA) National Pollutant Discharge Elimination System (NPDES) Multi-Sector General Permit for Stormwater Discharges Associated with Industrial Activity (MSGP)* (U.S. EPA, June 2015) issued by EPA. The SWPPP uses the industry specific permit requirements for *Sector O-Steam Electric Generating Facilities* as a guide. The applicable stormwater discharge permit is EPA General Permit Tracing Number NMR050013 [Triad National Security, LLC (Triad)]. Click here to view contents of the 2015 MSGP.

This SWPPP applies to discharges of stormwater from the operational areas of the TA-03-22 Power and Steam Plant at Los Alamos National Laboratory. Los Alamos National Laboratory (also referred to as LANL or the "Laboratory") is owned by the Department of Energy (DOE), and is operated by Triad. Throughout this document, the term "facility" refers to the TA-03-22 Power and Steam Plant (PSP). The current MSGP expires at midnight on June 4, 2020.

1.0 FACILITY DESCRIPTION

1.1 Facility Information

Name of Facility: TA-03-22 Power and Steam Plant			
Street: East Side of Diamond Drive, South of West Jemez			
City: Los Alamos	City: Los Alamos State: NM ZIP Code: 87545		
County: Los Alamos			
NPDES ID (i.e., permit tracking number): NMR050013			
Primary Activity Code, and Sector and Subsector (2015 MSGP, Appendix D and Part 8): Activity Code SE, Sector O, Subsector O1			
Estimated area of industrial activity at site exposed to stormwater: 8.6 acres			
Discharge Information			
Name(s) of surface water(s)/segment that receives stormwater from your facility: Sandia Canyon (Sigma Canyon to NPDES outfall 001)			
Does this facility discharge industrial stormwater directly into any segment of an "impaired water" (see definition in 2015 MSGP, Appendix A)? ⊠Yes No			
Pollutants causing the impairment: Aluminum, Polychlorinated Biphenyl (PCB) (Aroclors), and Copper			

Pollutants causing the impairment (see above) that may be present in industrial stormwater discharges from this Facility: Aluminum and Copper				
Are any of your stormwater discharges subject to effluent limitation guidelines (ELGs) (2015 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-03-22 PSP consists of operations and management personnel from the Utilities and Institutional Facilities (UI) Facility Operations Division (FOD) and the facility, a manager from Deployed Environmental Safety and Health (DESH), a representative from Environmental Protection and Compliance-Compliance Programs (EPC-CP), and a Deployed Environmental Professional (DEP). The EPC-CP representative is responsible for subject matter expertise to ensure Laboratory compliance under the NPDES permit regulations. The team members are selected on the basis of their familiarity with the activities at the facility and the potential impacts of those activities on stormwater runoff.

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

Staff Job Titles	Individual Responsibilities
Team/Group Leader: DESH-Utilities & Infrastructure Support (UIS), ESH Manager 4	Responsible for the management of all environmental, safety, health, and quality programs for the yards, buildings and facilities listed 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 directing facility and operations responsible managers to correct problems noted in inspections. The Group Leader also ensures adequate resources are obtained to ensure compliance requirements of the MSGP and this SWPPP are met.
DEPs (Primary and Backup): DESH-UIS, Environmental Professionals	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 and the facility Pollution Prevention Team 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	Responsible for managing the maintenance and operation of all aspects
Division (FOD)	of the yards, buildings and facilities listed within this Plan. The manager
Manager/Representative:	shall provide review and ensure coordination with core personnel and
UI-OPS, Operations Manager 5	the PPT, as appropriate, when tenants within the UI FOD propose a new process or a new site or operation that may be subject to the MSGP.
EPC-CP:	The MSGP Project Lead is responsible for managing and administering
MSGP Program Lead, Environmental Professional	the Multi-Sector General Permit Storm Water 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: UI-OPS, Operations Manager 3	Responsible for day-to-day operations at the facility. Assists the DEP 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 Operations Manager is key to ensuring adequate communication and coordination of issues regarding implementation of the MSGP and this Plan. The Operations Manager also assists DEP/EPC with SWPPP training and/or briefings, as requested.

1.3 Site Description

The primary operation of the TA-03-22 PSP is to provide electrical power and steam to the entire Laboratory. Natural gas is the main fuel supply for the PSP. However, #2 diesel fuel oil is occasionally used to run boilers for back-up power and emergency supplies to LANL as well as the Southwestern power grid. A 1.25 megawatt (MW) emergency diesel generator is also used for temporary back-up.

The boundary of the facility covers an estimated 8.6 acres, of which, 95% consists of impervious surfaces. The site is bordered directly to the east by Sandia Canyon, which also serves as the area watershed. Due to the quantity of oil storage on site (>1,320 gallons), the facility is also regulated under a Spill Prevention Control & Countermeasure (SPCC) Plan.

The main structures at the facility consist of the power and steam plant building (03-22), UI support offices (03-1437, 1651/1790), two cooling towers (03-2536 and 03-592), the cooling tower water chemical treatment building (03-24), the main gas house (03-55), the switch gear building (03-1682), the

fuel transfer pump house (03-57) and adjacent fueling area, the Rolls Royce combustion gas turbine generator (CGTG) and associated air compressor (03-2425), generator enclosure and attached sumps and control room (03-2422) -generator enclosure/attached sumps & control room (03-2424)- and 03-2373-the natural gas compressor), the 1.25 MW emergency standby generator (03-1404), and a water reuse tank (03-336).

There is one above ground storage tank (AST) for diesel fuel (03-2382) located on the northeast section of the facility. There were previously two ASTs, however 03-26 was demolished and removed in April of 2017. A transformer substation (03-233) is located on the north side of the facility. There are several transformers (various structure numbers) located throughout the facility. A new/used oil drum bulk storage area is located on the southwest portion of the building in a covered secondary containment area. Adjacent to the bulk storage area is a sulfuric acid tank in secondary containment. There are also two empty tanks in secondary containment units in the southeastern section of site, which previously held water treatment chemicals for the cooling towers.

A covered metal scrap roll-off bin for recycle is located on the NE side of 03-22.

Loading docks are on the south and north side of the main power plant building (03-22). Parking lots are located outside the fenced area to the west (for general parking) and government parking is allowed within the fenced facility, primarily on the west side and adjacent to all main buildings.

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

Outfalls

There are eight stormwater outfalls associated with this facility. These include outfalls 005, 006, 007, 008, 009, 010, 011 and 012. All outfalls discharge to Upper Sandia Canyon or directly to Sandia Canyon.

Outfall 005

Located on the southwest side of 03-22, outfall 005 receives drainage associated with the bulk drum storage area and sulfuric acid storage tank (which is currently housed within secondary containment). Drainage from the southwest parking lot and loading docks is also captured at this outfall. The outfall consists of a stabilized asphalt swale that contains gravel bags and Metallox wattles for flow dissipation and sediment/metals reduction. Automated sampler **MSGP00501** is located at Outfall 005.

Outfall 006

Located on the southeast side of 03-22, outfall 006 receives drainage associated with loading and unloading operations in the area and transformers on the southeast side of the building. An asphalt berm and swale direct stormwater discharge to the outfall.

Outfall 007

Located on the southern section of the site, outfall 007 is east of Outfall 006. This outfall receives drainage associated with 03-24, loading and unloading operations, and transformers on the southeast and central portion of the facility. The outfall also receives excess stormwater drainage when the sump enclosure for the CGTG oil tank needs to be pumped. The outfall consists of a polyvinyl chloride culvert within an asphalt discharge point surrounded with gravel bags for flow dissipation/sediment reduction.

Outfall 008

Located on the far southeast portion of the site, outfall 008 receives drainage associated with the CGTG structures (03-2422 & 2424) and the pump house (03-1382). There is rip rap, and a rock-lined infiltration basin on approach to the outfall, and a rock channel swale located at the outlet.

Outfall 009

Located east of the fenced boundary of the site, outfall 009 receives a large portion of drainage from the upper lots at the facility; including loading docks, the diesel fuel loading area, the CGTG natural gas compressor (03-2373), parked vehicles, and the metal recycle bin. The outfall consists of a corrugated metal culvert that discharges to a stabilized rip rap channel. Automated sampler **MSGP00901** is located at Outfall 009.

Outfall 010

Located at the northern section of the facility, adjacent to the original substation, outfall 010 receives drainage from the parking area and slopes around office buildings (03-1437 and 03-1790), and the switchgear building (03-1682). A partial rock channel/swale directs stormwater to the outfall. This channel, and surrounding area, was disturbed during the construction of the new substation to the north and not entirely replaced. The construction was a federalized project performed by subcontractors to DOE and covered under an NOI associated with the Construction General Permit not overseen by Triad.

Outfall 011

Located on the north side of the facility, directly north of the switch yard/transformer substation (03-233), outfall 011 receives drainage from the switch yard. This yard includes electrical transformers and oil bearing equipment located north of the switch yard access transformer bank (03-0232). A majority of the surface of the yard is paved. The outfall consists of a stabilized vegetative area that drains off the north slope of the site.

Outfall 012

Located on the northwest side of the switch yard/transformer substation (03-233), outfall 012 receives drainage from the switch yard, which includes electrical transformers and oil bearing equipment located north of 03-232, drainage from the northwest parking lot and small buildings adjacent to 03-232, like the relay building (03-0230) The outfall consists of a corrugated metal culvert that discharges north of the fenced boundary to a rock lined channel directed to an infiltration basin lined with rip rap. Automated sampler **MSGP01201** is located at Outfall 012.

Substantially Identical Outfalls:

Outfalls 005 and 006 are substantially identical in the types of potential pollutant sources, drainage areas and site topography. The runoff coefficient for both of these outfalls is considered low. Monitoring is performed at Outfall 005 and is considered representative of both outfalls.

Outfalls 007, 008, 009, and 010 are substantially identical in the types of potential pollutant sources, drainage areas and site topography. The runoff coefficient for these outfalls is considered low. Monitoring is performed at Outfall 009 and is considered representative of the other outfalls.

Outfalls 011 and 012 are substantially identical in the types of potential pollutant sources, drainage areas and site topography. The runoff coefficient for both of these outfalls is considered low. Monitoring is performed at Outfall 012 and is considered representative of both outfalls.

1.4 General Location Map

The general location map for the facility can be found in Figure A. Figure B-3 identifies all receiving waters associated with stormwater discharges from the facility. Runoff from the entire site flows to Sandia Canyon. The canyon at this location contains a perennial stream and eventually flows into the Rio Grande approximately 9 miles southeast of the site.

1.5 Site Map

The site maps are provided as Figures B-1 and B-2. Figure B-1 identifies all of the industrial activity areas, outfalls and monitoring locations. Figure B-2 contains all of the stormwater controls measures identified by tracking number. In addition to the above, combined, these maps also illustrate the following: facility boundary, structures, drainage patterns, nearby receiving waters, roadways, acreage, percentage of impervious surface and whether there are any critical habitat areas.

As required by the 2015 MSGP, the following information specific to the facility is shown either on the site map or with additional information provided in this SWPPP.

- Site boundaries and acreage. The site covers approximately 8.6 acres.
- **Significant structures and impervious surfaces.** The site is 95% impervious, consisting primarily of structures and paved lots.
- Direction of stormwater flow and site drainage. Direction of flow is indicated with arrows.
- Locations of stormwater control measures.
- Locations of all receiving waters. TA-3-22 discharges to a nearby wetland. A map of nearby receiving waters is provided as Figure B-3.
- Locations of all stormwater conveyances. This includes all ditches, pipes, and swales.
- Locations of potential pollutant sources.
- Locations of significant spills or leaks.
- Locations of all stormwater monitoring points.
- Locations of stormwater inlets and outfalls. Outfalls are identified on Figures B-2 and B-3.
- This facility is currently not associated with a municipal separate storm sewer system (MS4).
- Areas of designated critical habitat for endangered or threatened species. There are no critical
 habitat areas in the direct vicinity of the facility. However, a map for threatened and
 endangered species within LANL property is included as Figure B-4.
- There are no non-stormwater discharges at the facility (see certification in Attachment 3).
- Locations of the following activities where such activities are exposed to precipitation:
 - fueling stations;
 - vehicle and equipment maintenance and/or cleaning areas;
 - loading/unloading areas;
 - locations used for the storage of wastes;
 - liquid storage tanks;
 - processing and storage areas;
 - o immediate access roads used or traveled by carriers of raw materials, manufactured products, waste material, or by-products used or created by the facility;

- transfer areas for substances in bulk;
- o machinery; and
- location and sources of run-on to the site.

2.0 POTENTIAL POLLUTANT SOURCES

Industrial activities that could potentially result in releases to the environment are summarized (by area) in Section 2.1 and in the site maps listed in Figures B-1 and B-2.

Most industrial activities at the PSP occur indoors and are not exposed to stormwater. In general, materials stored in outside locations at the TA-03-22 PSP have secondary containment units, are stored in enclosed sheds or structures, or are covered with heavy duty tarps. Spill kits and oil absorbent materials are kept inside the plant to clean up spills immediately.

2.1 Potential Pollutants Associated with Industrial Activity

Specific potential pollutants are listed below by location.

West Side of 03-22

Transformer (03-2428)

This transformer is located on concrete and surrounded by gravel. *The potential pollutant is non-PCB transformer mineral oil.*

Central Portion of the Site

Transformer (03-2111)

This transformer is located within a metal secondary containment unit. The potential pollutant is non-PCB transformer mineral oil.

South Side of 03-22

Oil drum storage area

This storage area is used to store 55-gallon drums of turbine oil, transformer oil and hydraulic fluid for the steam plant turbines, transformers and equipment. The storage area is covered with an awning and is situated within a concrete secondary containment unit. A waste oil storage area is located in the eastern portion of the area. Leaks from this area are unlikely, although possible, during drum transport. *Potential pollutants include lubricants, oils, hydraulic fluid.*

Sulfuric Acid Tank

This tank has a gross capacity of 4,350 gallons and is used to transfer sulfuric acid to equipment within the PSP. The tank is located within a secondary containment unit, so releases are unlikely. *The potential pollutant is sulfuric acid.*

Roof Drainage

Stormwater runs off the roof. This drainage could contain metals from grounding wires, ducting, contact with roofing fasteners, etc.

Loading Docks

The loading docks are used to load and unload materials (i.e. oils and chemical drums) into and out of the PSP. *Potential pollutants include sodium hydroxide, lubricants, oils and hydraulic fluid.*

Dumpsters

Dumpsters are used for collection of trash and recycle of cardboard and aluminum. *Potential pollutants include floatable debris, trash, aluminum, food and office waste.*

East Side of 03-22

03-1404 1.25 MW Standby Generator

The standby generator has a gross capacity of 1,408 gallons of #2 diesel fuel oil. The generator is completely enclosed and sits on a concrete pad. Releases from the generator are unlikely because it is enclosed and within secondary containment. Fueling operations take place on the east side of the generator where a potential spill could occur. However, there is a 90% fill alarm to prevent overfilling of the tank. *The potential pollutant is #2 diesel fuel oil.*

<u>Transformer Banks (03-2107, 2108, 2109)</u>

The three transformers are located on a concrete pad with a surrounding secondary containment sump. The *potential pollutant is non-PCB transformer mineral oil*.

<u>Transformer (03-2100):</u> This transformer is located at the northeast corner of TA-3-22 and is positioned on a concrete pad with a strip of gravel surrounding it. There is also a slightly raised concrete berm on three sides of the transformer. *The potential pollutant is non-PCB transformer mineral oil.*

East Side of 03-24

Loading area

Structure 03-24 is used for storing and dispersing chemicals associated with the water reuse tank (03-336) and the secondary environmental tank (03-784). No chemical mixing or pouring occurs inside or outside of the structure. However, 55 gallon drums of chemicals are moved in and out of the area using the loading area. Chemicals are dispersed through tubing (attached to drums) which connect to underground injection points. *Potential pollutants include sodium bisulfate and phosphate*.

East Side the Site

Transformer (03-2516)

This transformer is located on concrete. The potential pollutant is non-PCB transformer mineral oil.

East Side of 03-592

Cooling Tower Blowdown & Water Reuse

Cooling tower operations are located on the central/eastern side of the facility. In addition, there is one cooling tower on the south end. *Potential pollutants include metals. For addition information on the older cooling tower see Solid Waste Management Units (SWMU) below.*

North/South of 03-2422

CGTG Oil Storage

The CGTG has four oil-filled operational equipment containers (sumps) which support the function of the turbine. The oil storage containers have capacities of 240, 1862, 50 and 37 gallons. One container is located inside 03-2373 and one inside 03-2422. The 1862 and 37 gallon containers are located outside of 03-2422. Stormwater that collects in the outdoor CGTG sump drains west through underground piping to an oily water collection tank. *Potential pollutants include turbine mineral oil and oily water*.

North of 03-22

Loading Docks

The north side loading docks are occasionally used for the transfer of product materials and oil drums into the power plant building. *Potential pollutants include hydraulic, lubricating, and mineral oils.*

Metal Recycling Roll-Off Bin

This bin contains used metal parts removed from the plant and scrap metal and metal shavings from Pipe Fitter's jobs within and around the plant. The bin is kept covered while at the facility and is taken to

the Material Recycling Facility (MRF) when it is 3/4 full where it is shipped off-site for recycle. *Potential pollutants include metal pieces, turning, residuals, rust, flux, and machine oil residuals.*

Parked Vehicles

Government service vehicles often park on the north side of TA-03-22. These vehicles could leak fluids. *Potential pollutants include antifreeze, gasoline, diesel, oil, and hydraulic fluid.*

03-2373 CGTG Air Compressor

Oil Containment Unit

The air compressor unit is structure 03-2373 and is located northwest of the main CGTG structures. The unit is enclosed but open at the top and exposed to stormwater. The unit is contained within an oil catchment/sump. Release from the sump is unlikely as any accumulated stormwater typically evaporates. *Potential pollutants include turbine/mineral oil, oily water.*

03-2382 Fuel Tank Area

2382 Fuel Tank

This tank is an aboveground storage tank (AST) with a gross storage volume of 230,000 gallons. The AST is used to store #2 diesel fuel oil which is supplied to burners within the power plant building. However, fuel from the tank is infrequently used as fuel oil burning is a backup supply to the normal natural gas supply to the power plant. The tank is contained in an earthen secondary containment berm. The area surrounding the tank was revegetated in 2017 and has been stabilized with compacted millings. *The potential pollutant is #2 diesel fuel oil.*

Diesel Fuel Loading Area & Pump House (03-57)

The diesel fuel loading area and pump house are located south and west of the 2382 AST. Diesel fueling begins in the loading area where fuel is transferred to the pump house fueling ports, which connect via piping to the AST. The pump house contains a fuel level alarm and automatic shut-off valve in order to reduce the risk of overfilling the tank and for emergency notification in case of a leak. *The potential pollutant is #2 diesel fuel oil.*

Northern Portion of the Site

<u>Transformers (03-2591, 03-2592)</u>

These transformers are located on concrete. *The potential pollutant is non-PCB transformer mineral oil.*

Parked Vehicles

Government service vehicles often park on the north side of TA-03-22. These vehicles could leak fluids. *Potential pollutants include antifreeze, gasoline, diesel, oil, and hydraulic fluid.*

Substation Transformers

Substation Transformers (03-0144, 03-232, and 03-2384) and Oil-Bearing Equipment

This electrical equipment is located on the north side of the facility. *The potential pollutant is non-PCB transformer mineral oil.*

SWMUs or Consent Order Sites

Solid Waste Management Unit (SWMU) 03-012(b) is soil contamination associated with operational releases from the TA-03 power plant cooling towers. The cooling towers [structure 03-58 and former structure 03-25 (currently structure 03-592)] are located to the east of the power plant. Operational releases occurred as a result of both drift from the cooling towers and discharges to the SWMU 03-045(b) outfall.

The distinction between SWMUs 03-012(b) and 03-045(b) is often not clear in historical documents. The 1990 SWMU Report, which originally identified these sites as SWMUs, describes SWMU 03-012(b) as former chilled water operational releases, including cooling tower drift loss and cooling water discharges to Sandia Canyon. SWMU 03-045(b) is described as the NPDES outfall for cooling towers 03-25 and 03-58 (LANL 1990, 007511). The 1993 RFI work plan for OU 1114 identifies SWMU 03-012(b) as the power plant outfall, and the RFI work plan addendum for OU 1114 identifies SWMU 03-045(b) as the outfall for the power plant cooling towers and notes this discharge point is identical to SWMU 03-012(b). Similar descriptions are provided in the 1996 Phase I RFI report for TA-03. Based on the original descriptions in the 1990 SWMU report, SWMU 03-012(b) was intended to address only chromium releases associated with the power plant cooling water. Although chromium was released from the cooling tower outfall as well as by drift, discharge of chromium from the outfall ceased before the NPDES permit was issued for the outfall. Thus, SWMUs 03-012(b) and 03-045(b) are physically the same outfall but address releases of different materials at different time periods. That is, SWMU 03-012(b) is associated with releases of chromated cooling water, which occurred until the mid-1970s, and SWMU 03-045(b) is associated with permitted discharges from the outfall, which occurred later.

Resource Conservation and Recovery Act (RCRA) Facility Investigation (RFI) sampling was performed in 1994. The 1996 RFI report describes SWMU 03-012(b) and 03-045(b) as the same outfall, and samples were collected only at and below the outfall and not around the cooling towers. Because all releases from the outfall are addressed under SWMU 03-045(b), the RFI samples are associated with SWMU 03-045(b) rather than SWMU 03-012(b).

Between 2002 and 2004, 50 samples were collected from 27 locations and submitted for laboratory analysis of TAL metals, VOCs, SVOCs, TPH-DRO, PCBs, and cyanide.

Decision-level data for SWMU 03-012(b) consist of results from 50 samples collected from 27 locations in 2002 and 2004. The 2015 supplemental investigation report concluded that the nature and extent of contamination have been defined and no further sampling for extent is warranted. This site does not pose a potential unacceptable risk under the industrial, construction worker, and residential scenarios and poses no potential ecological risks.

2.2 Spills and Leaks

Spills and leaks for November 2018 through 2019 are summarized below. Spills and leaks that occurred prior to November 2018, when Triad obtained MSGP coverage are documented in previous SWPPP revisions.

Date	Description	Outfall(s) Affected
July 2019	Approximately 500 gallons of treated sanitary effluent overflowed from the 3-336 reuse tank when the tank's level indicator malfunctioned. The effluent flowed north from the site towards Outfall 009 and into the north fork of Sandia Canyon. Upon discovery of release, the flow was isolated to stop the discharge. Erosion was present on the north slope and beneath the overflow pipe. The slope was stabilized with angular rock and wattles were added to the bottom of	009

	the slope to prevent sediment transport to the outfall and canyon.	
December 2018	Approximately 2,000 gallons of potable water was discharged from a water line break over the holiday shut down. The line was isolated upon discovery to stop the discharge. The line was later repaired and the impacted area was compacted and stabilized. The discharge did not cause erosion, reach a watercourse or adversely impact any SWMUs or AOCs.	None
December 2018	During refueling of the 3-1404 Standby Generator ~2 pints of diesel was released to the concrete on the east side of the generator enclosure at the fill port. The audible and visual alarm, which would have indicated the tank was 90% full, did not activate and a burst of diesel fuel was released to the adjacent area. The release did not impact soil, surface water, or groundwater. The spill was immediately cleaned up and the overfill alarm is being assessed by facility personnel. The release did not impact soil, surface water, or groundwater. The spill was immediately cleaned up and the overfill alarm is being assessed by facility personnel. An FSR was placed to check and repair the faulty alarm issue.	None

Areas on Site Where Potential Spills/Leaks Could Occur:

Specific Equipment/Industrial Activity Areas and Location	Outfalls(s) Affected	
West Side of 03-22		
Transformer (03-2428)	005	
Central Portion of the Site		
Transformer (03-2111)	006	
South Side of 03-22		
Oil drum storage area	005	
Loading docks	005	
Sulfuric acid tank	005, 007	

Roof drainage	005, 006, 007, 009			
Dumpsters	005			
East Side of 03-22				
Standby generator#2 diesel fuel oil & fueling operations	009			
Transformer banks (03-2107, 2108, 2109)	006			
Transformer (03-2100)	006			
East Side of 03-24				
Loading area	007, 009			
East Site of Site				
Transformer (03-2516)	007			
East Side 03-592				
Cooling tower blowdown & water reuse	007, 008			
North & South of 03-2422				
CGTG oil storage	008			
North 03-22				
Loading docks	009			
Parked vehicles (leaks)	009			
Metal recycling roll-off bin	009			
03-2373 CGTG Air Compressor				
Oil containment unit	009			
East Side 03-1404				
Diesel fuel loading area	009			

South Side 03-1790			
Parked vehicles (leaks)	009, 010		
Northern Portion of the Site			
Transformers (03-2591, 03-2592) 009			
Parked vehicles (leaks)	011, 012		
Substation Transformers			
Switch yard electrical transformers 011, 012			
Switch yard oil-bearing equipment	011, 012		

In the event of a future spill or leak at the facility, a spill report, documenting the occurrence and nature of the spill or leak, will be completed. The spill report will be filed promptly upon completion of spill clean-up as documentation, and will be summarized in this section of the SWPPP. In addition, spills within MSGP facility boundaries are entered as conditions requiring corrective action in the MSGP CAR database and are 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 the application of good housekeeping procedures and appropriate operational methods. As this facility has a large volume of oil-filled equipment, there are spill protection clean-up materials 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 used depend on the nature and extent of the spilled material. Specific spill response and reporting procedures for LANL are listed in Section 3.1.4 of this SWPPP.

2.3 Unauthorized Non-Stormwater Discharges

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

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

2.4 Salt Storage

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

2.5 Historical Data Summary

The following tables provide monitoring data at the facility for the past year (2019).

Permitted Facility: TA-3-22 Power & Steam Plant

Calendar Year 2019

Insufficient volume was collected at outfall 012 to fulfill all analyses, therefore no data are available for Total Aroclor, Al, and Fe.

Monitored Outfall	Discontinue Monitoring		Continue Monitoring					
	Average of four monitoring values did not exceed benchmark; quarterly monitoring discontinued per Part 6.2.1.2 of the MSGP.	Impaired water constituent was not detected in storm water discharge; annual monitoring discontinued per Part 6.2.4.1 of the MSGP.	Fewer than four quarterly samples have been collected in current sequence. Average concentration is not mathematically certain to exceed benchmark.	Average concentration mathematically certain to exceed benchmark.	Average of four quarterly monitoring values exceeded benchmark.	Impaired water constituent was detected, but did not exceed New Mexico Water Quality criterion.	Impaired water constituent exceeded New Mexico Water Quality criterion.	
005	_	Total Aroclor	_	Fe	_	_	Al, Cu	
009	_	Total Aroclor	_	Fe	_	_	Al, Cu	
012	_	_	_	_	_	_	Cu	

Fe=Iron Al=Aluminum Cu=Copper

3.0 STORMWATER CONTROL MEASURES

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

Proper material management and storage minimize the potential for exposure of precipitation and runoff to potentially hazardous materials. Containers that could be susceptible to spillage or leakage will be plainly labeled (e.g., "Used Oil," "Spent Solvents," etc.). Most operations are performed indoors, and materials are stored indoors or outdoors in enclosed structures. The potential for exposure of industrial materials to stormwater is limited primarily to loading/unloading operations at outdoor loading docks, spills or leaks that may occur from the substation and other transformers, tanks, generators and sumps or vehicle parking areas. Secondary containment is provided for most outdoor storage units and oil containing equipment.

3.1 Non-Numeric Technology-Based Effluent Limits

Part 8 of the 2015 MSGP identifies sector-specific requirements for **Sector O – Steam Electric Generating Facilities** in addition to the non-numeric effluent limits outlined in this section. The facility must comply with requirements associated with the primary industrial activities described in Section 1.3 of this SWPPP and any co-located industrial activities as defined in Appendix A of the 2015 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 (per section 8.O.4 of the 2015 MSGP) are addressed at this facility:

Fugitive Dust Emissions

There are no coal handing operations or fugitive dust emissions associated with the facility.

Delivery Vehicles

See Sections 3.1.1 - 3.1.4 for specific controls in these areas. All refer to the SPCC Plan in Attachment 24.

Fuel Oil Unloading Areas

See Sections 3.1.1 - 3.1.4 for specific controls in these areas. In addition, the facility has a SPCC plan (see Attachment 24) that addresses fuel unloading.

Miscellaneous Loading/Unloading of Product and Chemicals

See Sections 3.1.1 - 3.1.4 for specific controls in these areas.

Liquid/Large Bulk Fuel Storage Tanks

See Sections 3.1.1 - 3.1.4 for specific controls in these areas. In addition, the facility has a SPCC plan that addresses oil storage tanks.

Spill Reduction Measures

Spill prevention and response is specifically addressed in Section 3.1.4.

Oil Bearing Equipment in Switchyards

See sections 3.1.1 - 3.1.4 for specific controls in these areas.

Residue Hauling Vehicles

This would be limited to removal of trash dumpsters and metal roll-off recycle bins.

3.1.1 Minimize Exposure

The following are methods used at the PSP to minimize exposure.

Covered and Enclosed Structures

Industrial materials are kept inside the PSP or in enclosed structures when possible.

Spill Control

Industrial areas are frequently inspected for leaks and checked during monthly inspections. Oil absorbent and Micro-Blaze® is available for immediate containment and clean-up if needed.

Secondary Containment Units

Used oil, bulk oil, and product are kept in secondary containment units to minimize releases should a spill or leak occur.

Metal for Recycle Covered Roll-Off Bin

Metal scrap is kept in a covered roll-off bin that is pick up by the Material Recycling Facility (MRF) when it is 3/4 full.

Covers for Trash Dumpsters

Trash dumpsters at the facility are normally kept closed or covered when not in use and are emptied on a monthly 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 include the following measures: Secondary containment areas and oil-filled equipment are inspected for leaks or spills. The entire site is inspected for floatable debris, garbage, waste and all other potential pollutants. Dumpsters and roll-off recycle bins are kept closed and are emptied on a weekly or asneeded basis by Roads & Grounds or the MRF. Spill clean-up procedures are followed as listed in Section 3.1.4 of this SWPPP.

All site areas exposed to precipitation are walked down during daily operations and monthly routine facility inspections to ensure the grounds are kept in an orderly condition. Outdoor metal storage areas are inspected to ensure all piping and metal raw material is off the ground on a pallet or storage rack and covered, or stored inside buildings, sheds or transportable containers. Vehicle and forklift parking areas are inspected for leaks or spills.

3.1.3 Maintenance

Control measures at the facility are kept in effective operating condition by the implementation of scheduled preventive maintenance, standard operating procedures (SOPs), engineering guidance, and manufacturer's specifications as applicable. If control measures need to be replaced or repaired to maintain compliance with the 2015 MSGP, necessary repair or replacements are made according to the timelines specified in the *Corrective Actions 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 corrective action has been completed. CAR information along with documentation of maintenance/repair of control measures, is in Attachment 9 of the SWPPP. Torn gravel bags at outfall areas are replaced immediately after discovery.

Scheduled Maintenance

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

Outfall culverts and drainages are inspected monthly and after heavy rain events and are cleaned out monthly or sooner if needed.

Revision 1. January 2020

Lot sweeping is performed monthly by the vacuum sweeper. In the event the sweeper is down for repair, sweeping will occur as soon as equipment is functional and able to be scheduled.

All scheduled maintenance is logged in the SWPPP in Attachment 10.

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 are 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 occur. Spill cleanup materials are located inside the main PSP building and outside near the CGTG and are readily accessible to facility personnel in the event of a spill or leak. Micro-Blaze® is kept on site in the DEP's office (Bldg. 1690 Rm. 101).

In general, the approach to spill cleanup is to secure the spill area and contact the Operations and Maintenance Coordinator (OMC) and/or Emergency Management Division-Emergency Response (EMD-ER) (if necessary). For incidental releases, Micro-Blaze® or dry absorbents can be used and the contaminated absorbents disposed of properly.

All spills or releases are reported to EPC-CP by using the spills pager (505) 664-7722. Although incidental spills may be cleaned up by facility personnel, all emergency spills or releases are reported to 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

95% of the outside surface region associated with the facility, contains structures or is paved with asphalt or concrete; therefore, erosion and sediment transport from the site itself is unlikely. BMPs are installed at outfalls to function as flow dissipation devices, which minimize the potential for erosion at facility discharge points.

Stabilized Drainage Channels at Outfalls

All outfalls at the facility are stabilized. See section 3.1.6 for specific description of control measures and stabilization at outfalls.

Gravel Bags/Eco-Bloks

Used at outfall inlets and other areas to minimize sedimentation and direct stormwater for appropriate drainage. Gravel bags and Eco-Bloks are also used on slope areas for erosion control.

Vegetation

Some areas east of the facility that are not paved, contain vegetation, which prevents erosion of the east slope.

3.1.6 Management of Runoff

The majority of stormwater runoff from outdoor industrial activity areas at the facility is captured by one of the 8 outfalls and associated drainage areas. The outfalls typically consist of stabilized drainage channels or grated storm drains that discharge to culverts (see Section 1.3). Other specific run off controls are listed below.

Metalloxx Wattles

These wattles are used to filter out metal residuals in stormwater runoff. There are currently wattles located before discharge points at Outfalls 005, 009 and 012.

Gravel Bags & Eco-Bloks

Function as flow dissipation devices for Outfalls 005 & 009. They also minimize sediment transport in runoff and direct runoff to stabilized channels.

Asphalt curbing and berms

Utilized to direct runoff to designated drainages and outfalls.

Secondary Containment

Used oil, bulk oil, and products for vehicle maintenance (i.e. antifreeze, diesel exhaust fluid, window washing fluid) are kept in secondary containment units to minimize releases should a spill or leak occur.

Sediment Retention Basin

Located at the eastern edge of the facility, directly west of Outfall 008. The basin is constructed of riprap and is used to allow sediments to settle out of stormwater before discharge to the outfall.

3.1.7 Salt Storage Piles or Piles Containing Salt

See Section 2.4.

3.1.8 Dust Generation and Vehicle Tracking of Industrial Materials

95% of the surface region associated with the facility (except for vegetated areas adjacent to the facility boundary) either contains structures or is paved with asphalt or concrete. Therefore, dust generation at the facility is minimal and dust suppression is not typically required. Items that are frequently removed from the facility primarily include heavy equipment and government vehicles, which are kept on paved parking areas or roadways; and Materials of Trade transported by craft workers to and from jobsites. Raw industrial materials are not transported to/from the site.

3.2 Numeric Effluent Limitations Based on Effluent Limitations Guidelines

The TA-03-22 Power and Steam Plant Shop is classified under **Sector O – Steam Electric Generating Facilities** and does not meet the industrial category requirements for effluent monitoring as listed in Part 2.1.3 (*Table 2-1 Applicable Effluent Limitations Guidelines*) of the 2015 MSGP.

3.3 Water Quality-Based Effluent Limitations and Water Quality Standards

Impaired waters monitoring is performed annually at the facility as listed in Section 4.7 of this SWPPP. The pollutants monitored can change yearly based on the requirements of the MSGP. The table in Section 4.7 lists the current year monitoring requirements and parameters.

Stormwater from the TA-03-22 PSP discharges to Sandia Canyon. Certain stream reaches within Sandia Canyon have been identified as impaired waters by the NMED Surface Water Quality Bureau (SWQB). According to the 2018-2020 State of NM Clean Water Act 303b/305b Integrated Report and Final List of Assessed Surface Waters, pollutants causing the impairment are listed as total recoverable Aluminum, PCB (Aroclors), and dissolved Copper. EPA has not yet approved or established TMDLs for Sandia Canyon.

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

4.0 SCHEDULES AND PROCEDURES

Preventative maintenance of control measures used to comply with the Permit effluent limits can avoid situations that result in discharges to the environment. Part 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

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 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

Revision 1. January 2020

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, DESH Group Leader and PPT 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 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:

- Overview and goals of the SWPPP;
- 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 to be 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.

Routine inspections evaluate the following areas, at a minimum:

- Areas where industrial materials or activities are exposed to stormwater;
- Areas identified in the SWPPP and those that are potential pollutant sources;
- Areas where spills and leaks have occurred in the last three years;

- Discharge points(outfalls/Substantially Identical 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 out for:

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

Inspections performed by the PPT member are documented by completing the routine facility inspection form, which identifies all conditions requiring corrective action and other potential stormwater pollution issues that were encountered. All conditions requiring corrective actions identified during the inspection are addressed in accordance with Section 6.0 *Corrective Actions and Deadlines* of this plan. Facility personnel or the DEP may also perform daily, weekly, or other periodic facility surveys (walk downs) between monthly routine inspections to ensure compliance with the SWPPP and MSGP. Completed routine facility inspection forms are provided in Attachment 7 of this SWPPP and meet the requirements listed in the 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 practical thereafter, or document why it was not possible to collect the sample within the first 30 minutes (i.e. adverse conditions, not enough flow, etc.); and
- Conducted at least 72 hours since the last storm event; or document that the 72-hour period is representative of your local storm events during the sampling period.

Note: Snowmelt samples need only be collected during a period of measureable 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.); and Perform one quarterly assessment during snow melt discharge (taken during a measurable discharge from the site).

At the PSP, quarterly visual assessments may be performed at only one of the outfalls, with follow-up visual assessments performed at the associated SIOs on a rotating basis through the permit term.

The PPT member performing the visual assessment documents potential stormwater pollution problems that are observed during the assessment on the quarterly visual assessment form. Any required 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 2015 MSGP (Part 3.2.2).

4.7 Monitoring

Analytical monitoring comprised of Impaired Waters 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 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 will be 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 stations **MSGP00501** (outfall 005), **MSGP00901** (outfall 009), and **MSGP01201** (outfall 012) as identified in Section 1.5. Discharge from the facility is east to Sandia Canyon (impaired waters), which is a tributary of the Rio Grande located approximately 9 miles east of the facility.

Outfalls 006, 007, 008, 010, and 011 are "substantially identical" to monitored outfalls (see Section 1.3) based on common potential pollutant sources, drainage areas, activities within the drainage areas and general site topography and characteristics. Outfall locations are shown on the site maps provided in Figures B-1 and B-2.

Monitoring will continue annually for constituents associated with impaired waters until a constituent is no longer detected in stormwater samples.

If the impaired water constituent value exceeds the New Mexico Water Quality criterion, or the benchmark value exceeds the permit limit, 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 Section 6.2 of the 2015 MSGP).

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

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

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

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

- EPC-CP-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 facility 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.

Summary of Monitoring Requirements

Outfalls: 005, 009, 012 Calendar Year 2020

Outfall	Monitoring Requirement	Industrial Sector	Assessment Unit	Analyte	Filtered/ Unfiltered	Regulatory Standard	Units	Regulatory Standard Type	Regulatory Standard Reference
005	Impaired Waters	-	NM-9000.A_047	Al	F10u ¹	1010	ug/L	NM 2010 Aquatic Chronic 80 mg	20.6.4.900 NMAC Subpart I
	Impaired Waters	-	NM-9000.A_047	Cu	F ²	7	ug/L	NM 2010 Aquatic Chronic 80 mg	20.6.4.900 NMAC Subpart I
	Quarterly Benchmark	0	-	Fe	UF	1000	ug/L	MSGP QBM 2015	NMR050013 Sect 9.6.2.1
009	Impaired Waters	-	NM-9000.A_047	Al	F10u	1010	ug/L	NM 2010 Aquatic Chronic 80 mg	20.6.4.900 NMAC Subpart I
	Impaired Waters	-	NM-9000.A_047	Cu	F	7	ug/L	NM 2010 Aquatic Chronic 80 mg	20.6.4.900 NMAC Subpart I
	Quarterly Benchmark	0	-	Fe	UF	1000	ug/L	MSGP QBM 2015	NMR050013 Sect 9.6.2.1
012	Impaired Waters	-	NM-9000.A_047	Al	F10u ¹	1010	ug/L	NM 2010 Aquatic Chronic 80 mg	20.6.4.900 NMAC Subpart I
	Impaired Waters	-	NM-9000.A_047	Cu	F ²	7	ug/L	NM 2010 Aquatic Chronic 80 mg	20.6.4.900 NMAC Subpart I
	Impaired Waters	-	NM-9000.A_047	Total Aroclor	UF	0.2	ug/L	2007 EPA R6 MQL	20.6.4.900 NMAC Subpart J
	Quarterly Benchmark	0	-	Fe	UF	1000	ug/L	MSGP QBM 2015	NMR050013 Sect 9.6.2.1

¹F10u – 10 μm filter

 ^2F - 0.45 μm filter

Al=Aluminum

Cu=Copper

Fe=Iron

NM=New Mexico

NMAC=New Mexico Administrative Code

EPA=Environmental Protection Agency

QBM=Quarterly Benchmark Monitoring

MQL=Minimum Quantitation Limit

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 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-storm water 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 a 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

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

AST	Aboveground Storage Tank
ВМР	Best Management Practice
CAR	Corrective Action Report
GCGTG	Combustion Gas Turbine Generator
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
L	Liter
LANL or the Laboratory	Los Alamos National Laboratory
ug	microgram
MSGP or Permit	Multi-Sector General Permit
MW	Megawatt
MRF	Material Recycling Facility
NOI	Notice of Intent
NMED	New Mexico Environment Department
NPDES	National Pollutant Discharge Elimination System
PCB	Polychlorinated Biphenyl
PPT	Pollution Prevention Team

PSP	Power and Steam Plant	
SPCC	Spill Prevention Control and Countermeasure	
SWMU	Solid Waste Management Unit	
SWPPP	Stormwater Pollution Prevention Plan	
UI	Utilities and Institutional Facilities	
URL	Uniform Resource Locator	

Date 2/8/2020

8.0 SWPPP CERTIFICATION

TA-03-22 Power and Steam Plant Los Alamos National Laboratory

CERTIFICATION STATEMENT

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

Facility Operations Director

Utilities and Institutional Facilities

FIGURE A: GENERAL LOCATION MAP

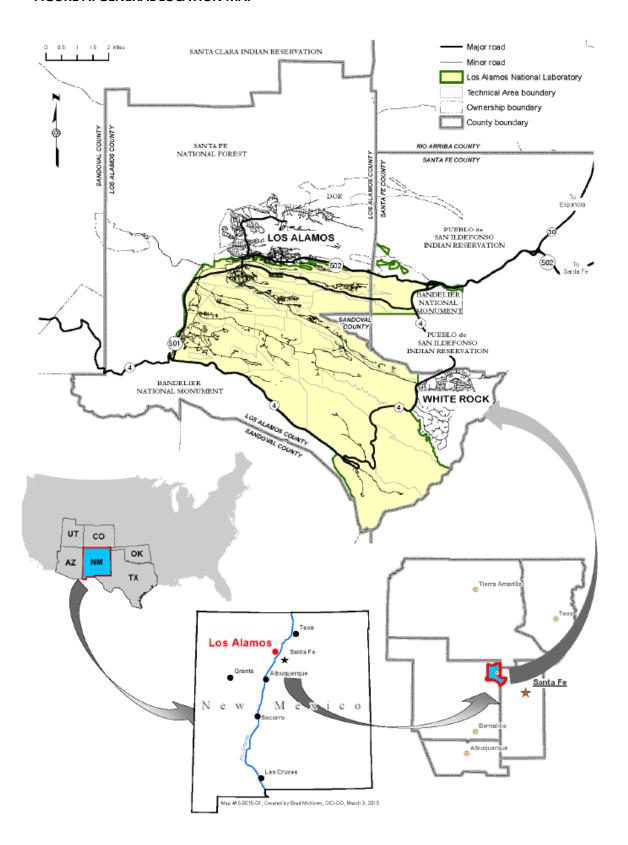


FIGURE B-1: FACILITY SITE MAP (TA-3-22 POWER & STEAM PLANT INDUSTRIAL ACTIVITY AREAS (IAAS)

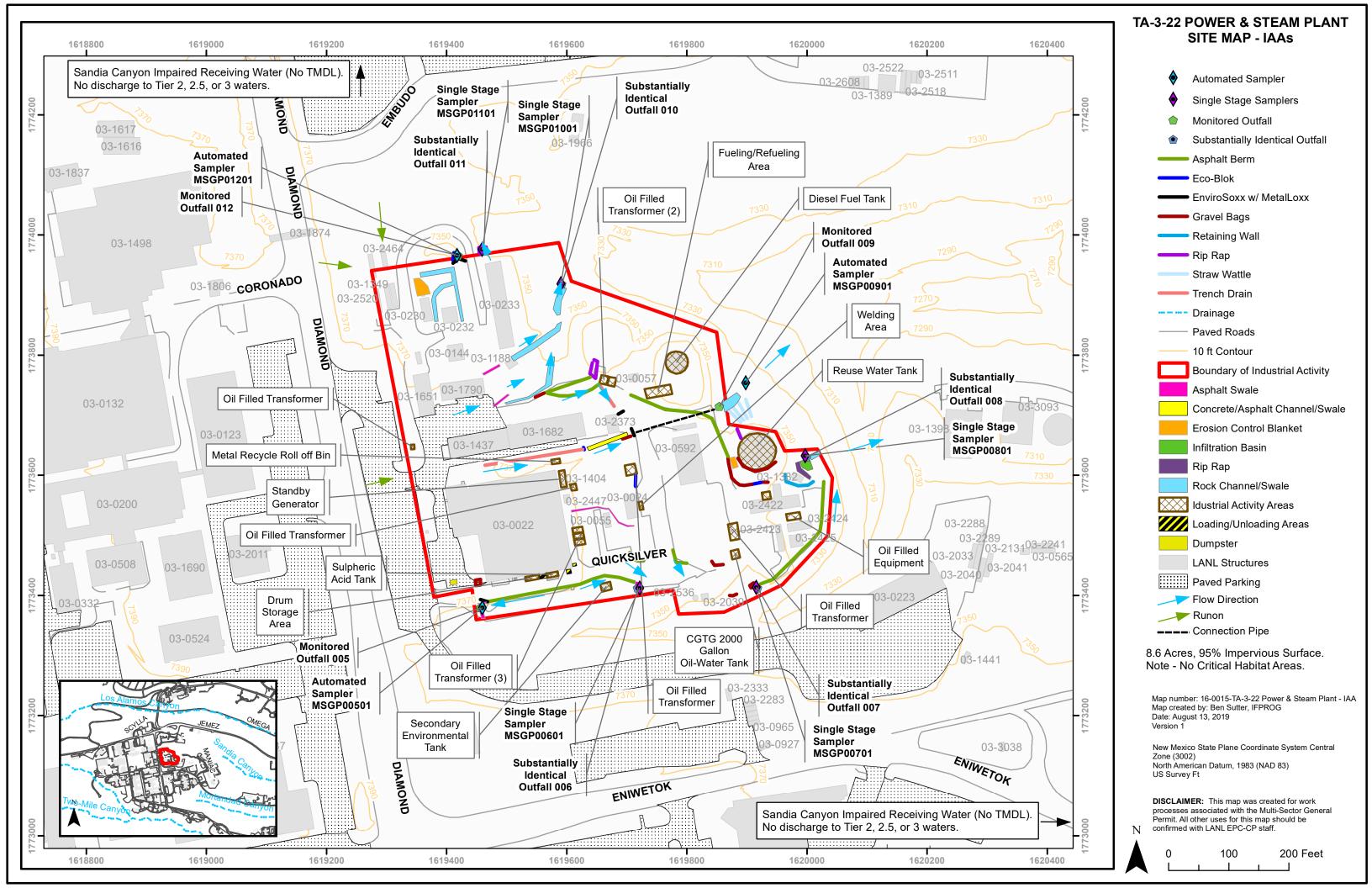
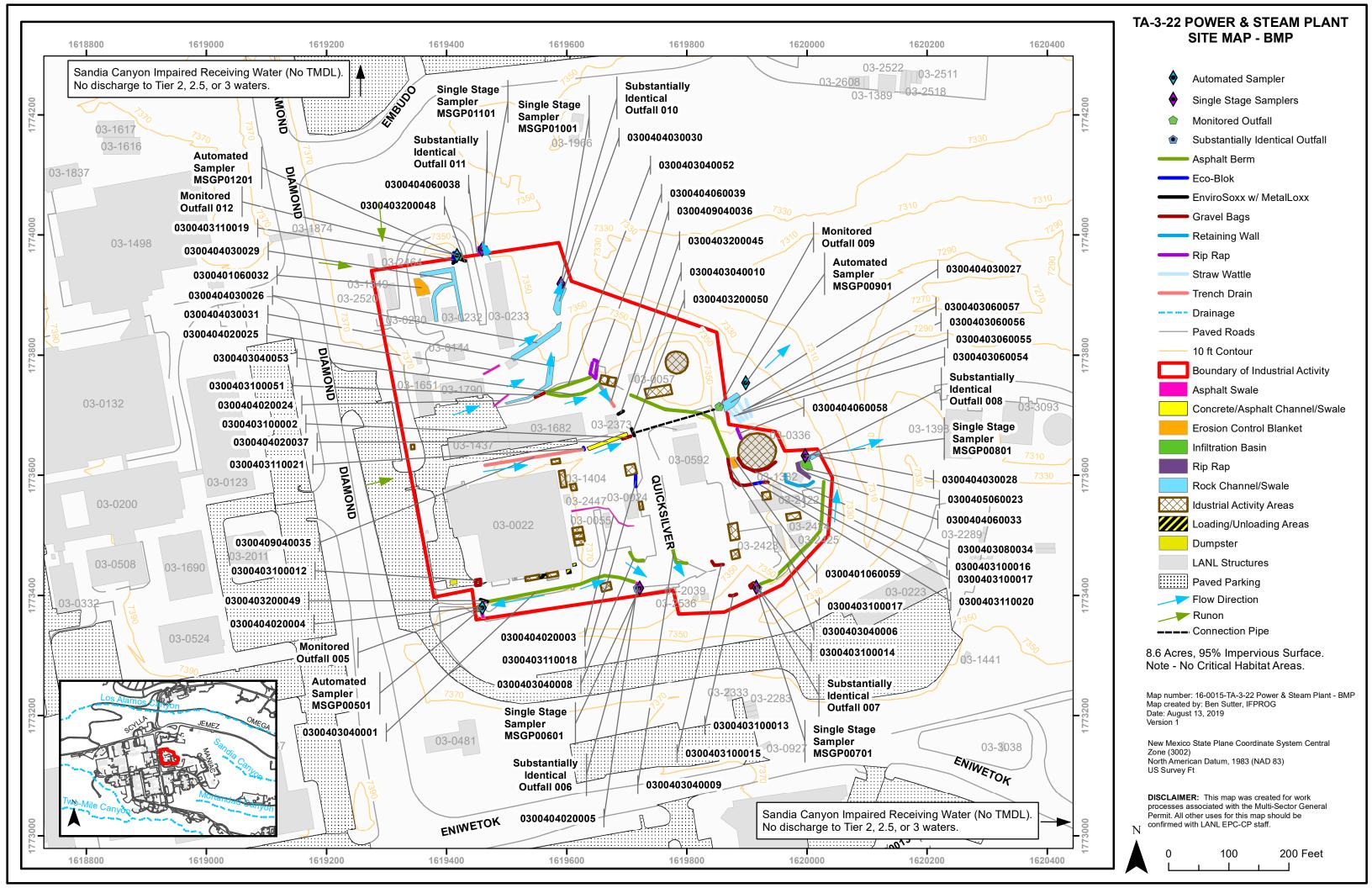
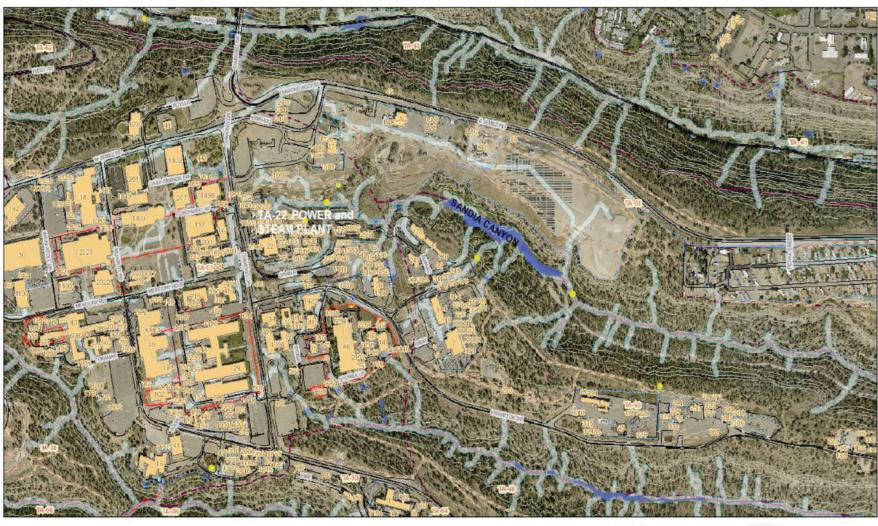


FIGURE B-2: FACILITY SITE MAP (TA-3-22 POWER & STEAM PLANT BMPS)

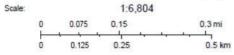


Revision 1, January 2020

FIGURE B-3: NEARBY RECEIVING WATERS

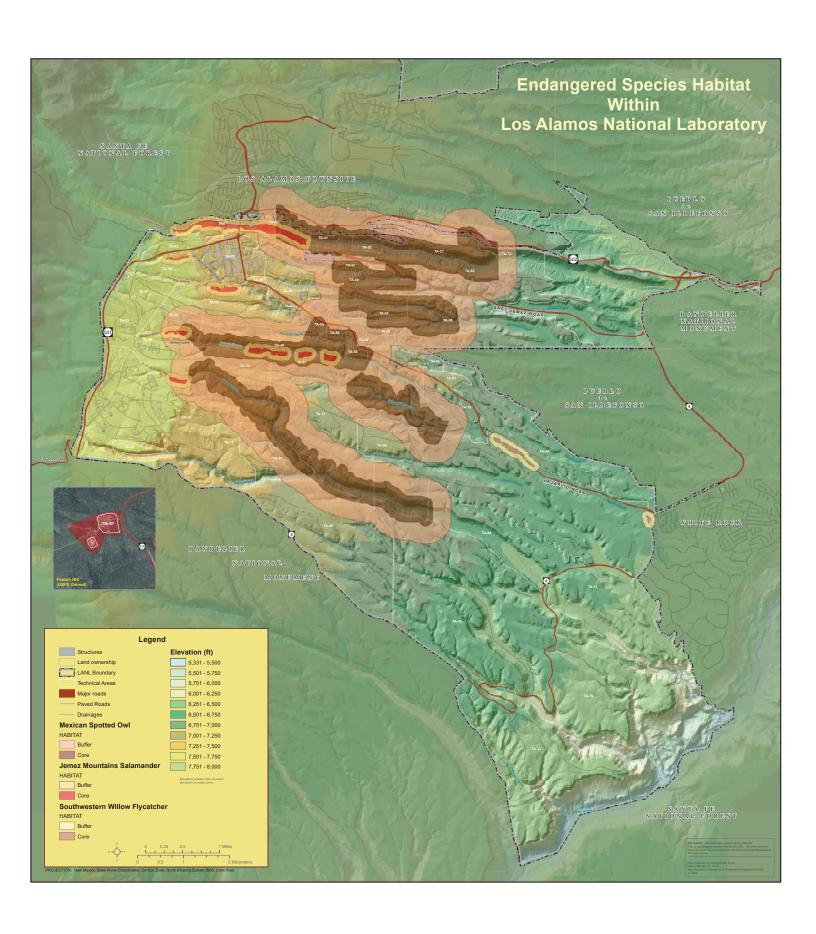






LANL, ENV DIVISION

FIGURE B-4: LANL ENDANGERED SPECIES MAP



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



U.S. ENVIRONMENTAL PROTECTION AGENCY (EPA) NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) EPA'S NPDES EREPORTING HELP DESK



10/26/2018

Triad National Security LLC ATTN: Michael W. Hazen PO Box 1663 MS K490 Los Alamos, NM 87545 Facility: Los Alamos National Laboratory PO Box 1663 Los Alamos, NM 87545

NPDES ID: **NMR050013**

Dear Michael W. Hazen:

This letter acknowledges that you have submitted a complete Notice of Intent form to be covered under the NPDES Multi-Sector General Permit (MSGP) for stormwater discharges associated with industrial activity. Coverage under this permit begins at the conclusion of your 30-day waiting period, on 11/01/2018, unless EPA notifies you that your authorization has been denied or delayed.

For tracking purposes, the following NPDES ID has been assigned to your Notice of Intent: NMR050013

As stated above, this letter acknowledges receipt of a complete Notice of Intent. However, it is not an EPA determination of the validity of the information you provided. Your eligibility for coverage under the Permit is based on the validity of the certification you provided. Your signature on the Notice of Intent certifies that you have read, understood, and are implementing all of the applicable requirements. An important aspect of this certification requires that you correctly determine whether you are eligible for coverage under this permit.

As you know, the MSGP requires you to have developed a Stormwater Pollution Prevention Plan (SWPPP) prior to submitting your NOI. The MSGP also includes specific requirements for implementing control measures (e.g., minimize exposure, good housekeeping, maintenance, spill prevention and response), conducting self-inspections and visual assessments of your discharges, taking corrective actions, and conducting staff training. You must comply with any specific requirements applicable to your industrial sector(s) in Part 8 and any state/tribal-specific requirements in Part 9 (see https://www.epa.gov/npdes/stormwater-discharges-industrial-activities). You are also required to submit an Annual Report in accordance with Part 7.5 of the MSGP that will contain the results from your past year's routine facility inspections, quarterly visual assessments, and corrective actions.

The MSGP includes five types of required analytical monitoring, one or more of which may apply to your discharge:

- Quarterly benchmark monitoring (see Part 6.2.1 and Part 8);
- Annual effluent limitations guidelines monitoring (see Part 6.2.2 and Part 8);
- State- or tribal-specific monitoring (see Part 6.2.3 and Part 9);
- Impaired waters monitoring (see Part 6.2.4); and

• Other monitoring as required by EPA (see Part 6.2.5).

Monitoring requirements in the MSGP (i.e., parameters required to be monitored and sample frequency) will be prepopulated on your electronic Discharge Monitoring Report (DMR) in EPA's NetDMR system, which is accessed at https://netdmr.epa.gov. Where you have determined that no monitoring requirements apply to your discharge, there is no need to access the NetDMR system. In order to obtain access to this system, you must complete the electronic signature process. Please refer to the following guidance for information about submitting monitoring reports through NetDMR:

 $\underline{https://www.epa.gov/npdes/stormwater-discharges-industrial-activities\#ereporting.}$

If you have general questions regarding the stormwater program or your responsibilities under the Multi-Sector General Permit, please contact:

EPA Region 06 Name: Nasim Jahan Phone: (214) 665-7522

Email: jahan.nasim@epa.gov

If you have questions about your Notice of Intent form, please call the EPA NPDES eReporting Help Desk at 1-877-227-8965 (toll free) or send an email to NPDESeReporting@epa.gov.

EPA NPDES eReporting Help Desk Operated by Avanti Corporation 1200 Pennsylvania Ave., NW Mail Code: 4203M Washington, DC 20460 1-877-227-8965



Date:

OCT 0 1 2018

Symbol:

EPC-DO: 18-358

LA-UR:

18-29182

Locates Action No.: N/A

Stormwater Notice Processing Center William Jefferson Clinton East Building – Room 7420 ATTN: 2015 MSGP Signature Agreement U.S. Environmental Protection Agency 1201 Constitution Avenue, NW Washington, DC 20004

Subject: National Pollutant Discharge Elimination System (NPDES) Multi-Sector General Permit (MSGP) Notice of Intent (NOI) Reporting Pursuant to Part B.12.C

To Whom It May Concern:

This letter serves to document the transmittal of a NOI for Stormwater Discharges Associated with Industrial Activity under the NPDES MSGP for Triad National Security, LLC (Triad) as a new operator for Los Alamos National Laboratory (LANL) pursuant to Part B.12.C of the 2015 MSGP. Triad is replacing Los Alamos National Security, LLC (LANS) as operator of LANL effective November 1, 2018.

EPA's Electronic Reporting Rule requires that NOIs be submitted using the NeT-MSGP program service on the EPA Central Data Exchange system. However, due to the following system limitations previously identified by LANS and coordinated with EPA Region 6 personnel, a complete and accurate NOI cannot be submitted using NeT-MSGP.

- 1. Part 9.6.2 of the 2015 MSGP, Permit Conditions for the State of New Mexico, requires that benchmark values be modified to reflect New Mexico water quality standards for facilities in New Mexico, based on benchmark values from the Standards for Interstate and Intrastate Surface Waters (20.6.4.900 New Mexico Administrative Code [NMAC]). These modified benchmark values are not recognized by NeT-MSGP and populated in NetDMR.
- 2. The 2018-2020 State of New Mexico Clean Water Act §303(d)/§305(b) Integrated Report requires monitoring of impaired waters pollutants not available for selection in NeT-MSGP (e.g., Adjusted Gross Alpha and Total Recoverable Aluminum).
- 3. 20.6.4.900 NMAC requires monitoring of certain modified benchmark and impaired waters metals pollutants as dissolved species, which are not available for selection in NeT-MSGP. Currently, only total metals species may be assigned in NeT-MSGP.
- 4. Due to extended frozen conditions during the winter and a semi-arid climate, Triad will implement an alternative monitoring period of four (4) two-month monitoring quarters for benchmark values as identified below, in accordance with Part 6.1.6 of the 2015 MSGP. This alternate monitoring schedule

does not coincide with the default four (4) three-month quarters listed in Part 6.1.7 of the 2015 MSGP and NeT-MSGP does not allow input of an alternate monitoring schedule. Accordingly, annual impaired waters and Effluent Limitation Guideline monitoring will be conducted between April 1 and November 30 of each year.

April 1 through May 31 June 1 through July 31 August 1 through September 30 October 1 through November 30

These system limitations directly result in inaccurate pollutants, limits, monitoring periods and DMR due dates being populated in NetDMR.

Additionally, Part 6.1.7 of the 2015 MSGP states that monitoring requirements in the permit begin in the first full quarter following the date of discharge authorization. Per the alternative monitoring schedule above, Triad interprets monitoring requirements to begin April 1, 2019.

EPA Region 6 has recognized the challenges that the outgoing operator (LANS) has identified with NeT-MSGP related to compliance with Part 9.6.2 of the 2015 MSGP, Permit Conditions for the State of New Mexico, and has been instrumental in helping LANS to resolve these issues. Thus, Triad was granted a waiver to submit a paper NOI from Nasim Jahan (EPA Region 6) on 9/26/2018 (Enclosure 1). To facilitate complete and accurate information in Net-MSGP and NetDMR, Triad is submitting a paper NOI on EPA Form 3510-6 (Enclosure 2), and an additional table defining monitored outfall-specific Sector and impaired waters limit sets, monitoring periods and DMR due dates (Enclosure 3) for population in the NetDMR system. EPA previously implemented similar monitoring requirements for LANL's 2015 MSGP coverage as operated by LANS under NPDES ID NMR053195.

Your assistance is greatly appreciated as Triad is committed to maintaining compliance with the MSGP requirements. If you have any questions, please contact Terrill Lemke (505) 665-2397 or Leslie Dale (505) 606-2371.

Sincerely,

Michael W. Hazen

Associate Laboratory Director Triad National Security, LLC

MWH:TWL:LJD:jdm

Enclosure(s):

- 1) EPA Region 6 Approval for Triad National Security, LLC to Submit a Paper NOI
- 2) NOI for Stormwater Discharges Associated with Industrial Activity under the NPDES Multi-Sector General Permit

- 3) NetDMR Monitoring Requirements for Los Alamos National Laboratory, Operated by Triad National Security, LLC
- 4) Threatened and Endangered Species Protection Concurrence Letters from the United States Department of Interior, Fish and Wildlife Service

Copy: Nasim Jahan, EPA Region 6, (E-File), Helen Nguyen, EPA Region 6, (E-File), Sarah Holcomb, NMED/SWQB, (E-File), Karen E. Armijo, NA-LA, (E-File), Thomas E. Mason, Triad, (E-File), Kelly Beierschmitt, Triad, (E-File), Kevin T. Amery, Triad, (E-File), J. Barton Lounsbury, Triad, (E-File), G. Drew Fuller, Triad, (E-File), Timothy A. Dolan, LC-ESH, (E-File), William R. Mairson, ADESH, (E-File), Enrique Torres, EPC-DO, (E-File), Taunia S. Van Valkenburg, EPC-CP, (E-File), Terrill W. Lemke, EPC-CP (E-File), Holly L. Wheeler, EPC-CP (E-File), Leslie J. Dale, EPC-CP (E-File), locatestream@lanl.gov (E-File), adesh-records@lanl.gov (E-File), epc-correspondence@lanl.gov (E-File)

TRIAD National Security, LLC 3

ENCLOSURE 1

EPA Region 6 Approval for Triad National Security, LLC to Submit a Paper NOI

EPC-DO: 18-358

LA-UR-18-29182

Date:_____

Dale, Leslie J

From:

Lemke, Terrill W

Sent:

Wednesday, September 26, 2018 4:16 PM

To:

Dolan, Timothy Aloysius; Dale, Leslie J; Wheeler, Holly Lynn

Subject:

FW: Request for LANL Paper MSGP NOI Waiver

Follow Up Flag:

Follow up Flagged

Flag Status:

FYI

Terrill Lemke, PE, CPESC, CISEC Environmental Compliance Programs Los Alamos National Laboratory Los Alamos, NM

Office: 505-665-2397 Cell: 505-699-0725

From: Jahan, Nasim < Jahan. Nasim@epa.gov>
Sent: Wednesday, September 26, 2018 2:43 PM

To: Lemke, Terrill W <tlemke@lanl.gov>

Cc: Emily Gorman <emily@avanticorporation.com>
Subject: RE: Request for LANL Paper MSGP NOI Waiver

Dear Mr. Terrill:

EPA, Region 6 is approving your request for paper submission as the facility is unable to submit the NOI online.. Please mail the hardcopies to the following address:

For Regular U.S. Mail Delivery:

Stormwater Notice Processing Center
Mail Code 4203M, ATTN: 2015 MSGP Signature Agreement
U.S. EPA
1200 Pennsylvania Avenue, NW
Washington, DC 20460

For Overnight/Express U.S. Mail Delivery:

Stormwater Notice Processing Center
William Jefferson Clinton East Building – Room 7420
ATTN: 2015 MSGP Signature Agreement
U.S. EPA
1201 Constitution Avenue, NW
Washington, DC 20004

Thank you,

Nasim Jahan

EPC-DO: 18-358

1

LA-UR-18-29182

October 1 through November 30

These system limitations directly result in inaccurate pollutants, limits, monitoring periods and DMR due dates being populated in NetDMR.

EPA Region 6 has recognized the challenges that the outgoing operator (LANS) has identified with NeT-MSGP related to compliance with Part 9.6.2 of the 2015 MSGP, Permit Conditions for the State of New Mexico, and has been instrumental in helping LANS to resolve these issues. Therefore, per your verbal direction, we are requesting a waiver for Triad to submit a paper NOI in lieu of submitting an inaccurate and incomplete NOI in NeT-MSGP. Please advise at your earliest convenience if you concur with our submittal of a paper NOI, as we must submit by Oct 2.

We appreciate your assistance in helping us maintain compliance. If you have any questions, please contact me at (505) 665-2397.

Terrill

Terrill Lemke, PE, CPESC, CISEC Environmental Compliance Programs Los Alamos National Laboratory Los Alamos, NM

Office: 505-665-2397 Cell: 505-699-0725

> 3 EPC-DO: 18-358 LA-UR-18-29182

ENCLOSURE 2

NOI for Stormwater Discharges Associated with Industrial Activity under the NPDES Multi-Sector General Permit

EPC-DO: 18-358

LA-UR-18-29182

Date:	OCT 0 1 2018	

NPDES FORM 3510-6



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, DC 20460

NOTICE OF INTENT (NOI) FOR STORMWATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY UNDER THE NPDES MULTI-SECTOR GENERAL PERMIT

Form Approved. OMB No. 2040-0004

Submission of this Notice of Intent (NOI) constitutes notice that the operator identified in Section C of this form requests authorization to discharge pursuant to the NPDES Stormwater Multi-Sector General Permit (MSGP) permit number identified in Section B of this form. Submission of this NOI also constitutes notice that the operator identified in Section C of this form meets the eligibility conditions of Part 1.1 of the MSGP for the facility identified in Section D of this form. To obtain authorization, you must submit a complete and accurate NOI form. Discharges are not authorized if your NOI is incomplete or inaccurate or if you were never eligible for permit coverage. Refer to the instructions at the end of this form to complete your NOI.

never eligible for pe	rmit coverage. Refer to the instructions at the end of this form to complete your NOI.
A. Approval to Us	e Paper NOI Form
1. Have you been g	ranted a waiver from electronic reporting from the EPA Regional Office*? 🔳 YES 🔲 NO
If yes, check whi	ich waiver you have been granted, the name of the EPA Regional Office staff person who granted the waiver, and the date of approval:
Waiver grante	The owner/operator's headquarters is physically located in a geographic area (i,e., ZIP code or census tract) that is identified as under-served for broadband Internet access in the most recent report from the Federal Communications Commission,
	The owner/operator has issues regarding available computer access or computer capability.
Name of EPA	staff person that granted the waiver: Nasim Jahan
Date approve	al obtained: 0 9 / 2 6 / 2 0 1 8
must file this form	uired to obtain approval from the applicable EPA Regional Office prior to using this paper NOI form. If you have not obtained a waiver, you electronically using the NPDES eReporting Tool (NeT) at http://water.epa.gov/polwaste/npdes/stormwater/Stormwater-eNOI-System-for-General-Permit.cfm
B. Permit Informati	ion NPDES ID (EPA Use Only):
1. Master Permit Num	nber: NMR050000 (see Appendix C of the MSGP for the list of eligible master permit numbers)
2. Are you a new disc	charger or a new source as defined in Appendix A? 🗌 YES 🔝 NO (If yes, skip to Part C of this form).
	ew discharger or a new source, have stormwater discharges from your facility been covered previously under an NPDES permit?
■ YES □ NO	
If yes, provide to permit: Note: F o	the NPDES ID if you had coverage under EPA's 2008 MSGP or the NPDES ID if you had coverage under an EPA individual to 15 GB 2 1 acility had 2015 MSGP coverage under Permit ID NMR053195 with Los Alamos National Security, LLC as operator.
C. Facility Operato	or Information
1. Operator Informati	na ^{Pa} ar ar na maraan na maraan na maraan na maraan na maraan na
Operator Name:	Triad National Security LLC
Mailing Address:	
Street:	PO BOX 1663 MS K490
City:	Los Allamos State: NM ZIP Code: 87545 -
County or Similar Gov	vernment Subdivision: Los Alamos
Phone:	5 0 5 - 6 6 5 - 2 3 9 7 Ext.
E-mail:	t e m k e @ a n
2. Operator Point of C	Contact Information:
First Name, Middle Ini	itial, Last Name: TerrillII
Title:	
3. NOI Preparer Inform	nation (Complete if NOI was prepared by someone other than the certifier):
First Name, Middle Ini	itial, Last Name: Holly L Wheeler
Organization	Triad National Security LLC
Phone:	5 0 5 - 6 6 7 - 1 3 1 2 Ext.
E-mail;	h b e n s o n @ a n . a o v

D. Facility Information	I d						
1. Facility Name: Los Alamos National Laboratory							
2. Facility Address:							
Streef/Location: PO Box 1663							
City: Los Alamos State: NM ZIP Code: 87545 -							
County or Similar Government Subdivision:							
3. Latitude/Longitude for the facility:							
Latitude: 3 5 8 7 2 8 N (decimal degrees) Longitude: 1 0 6 3 2 1 1 o W (decimal degrees)							
Latitude/Longitude Data Source: Map GPS Other							
If you used a USGS topographic map, what was the scale?							
Horizontal Reference Datum: NAD 27 NAD 83							
4. Is your facility located on Indian Country lands? 🔲 YES 🔳 NO							
If yes, provide the name of the Indian tribe associated with the area of Indian country (including name of Indian reservation, if applicable);							
5. Are you requesting coverage under this NOI as a "federal operator" as defined in Appendix A? YES NO 6. What is the ownership type of the							
facility? Federal Facility (U.S. Government) Privately Owned Facility Municipality County Government	nent						
☐ Corporation ☐ State Government ☐ Tribal Government ☐ School District							
District Mixed Ownership (e.g. Municipal or Water Public/Private) District							
7. Estimated area of industrial activity at your facility exposed to stormwater: $\frac{60.50}{}$ (to the nearest quarter acre)							
8, Sector-Specific Information NOTE; Sectors do not apply to every outfall. Refer to Section E.3 for Outfall-specific Sector associations.							
Identify the 4-digit Standard Industrial Classification (SIC) code or 2-letter Activity Code that best represents the products produced or services rendered for which your facility is primarily engaged, as defined in the MSGP, and the applicable sector and subsector of your primary industrial activity (See Appendix I)):						
Primary SIC Code: 4212 OR Primary Activity Code:							
Sector: P Subsector: P 1							
Identify the applicable sector(s) and subsector(s) of any co-located industrial activity for which you are requesting permit coverage:							
Sector: A Subsector: A 4 Sector: D Subsector: D 1 Sector: F Subsector: F 4	10						
Sector: N Subsector: N2 Sector: O Subsector: O 1 Sector: A A Subsector: A A 1	1						
(Not N1) If you are a Sector S (Air Transportation) facility, do you anticipate using more than 100,000 gallons of pure glycol in glycol-based deicing fluids and/or tons or more of urea on an average annual basis? YES NO	100						
If you are a Sector G (Metal Mining) facility, do you have discharges from waste rock and overburden piles? 🔲 YES 🔲 NO							
Check the type of ore you mine at your facility: \square Tungsten Ore \square Nickel Ore \square Aluminum Ore							
☐ Mercury Ore ☐ Iron Ore ☐ Platinum Ore ☐ Titanium Ore ☐ Vanadium Ore ☐ Molybdenum ☐ Uranium, Radium, and/or Vanadium Ore							
9, ls your facility presently inactive and unstaffed?* ☐ YES ■ NO							
* Note that if your facility becomes inactive and unstaffed during the permit term, you must submit an NOI modification to reflect the change.							
E. Discharge Information							
1. By indicating "Yes" below, I confirm that I understand that the MSGP only authorizes the allowable stormwater discharges in Part 1.1.2 and the allowable non-stormwater discharges listed in Part 1.1.3. 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 1.1.2 and 1.1.3 will be discharged, they must be covered under anoth NPDES permit. YES	o je						
2. Federal Effluent Limitation Guidelines							
Are you requesting permit coverage for any stormwater discharges subject to effluent limitation guidelines?							

40 CFR Part/Subpart	Eligible Discharges	Affected MSGP Sector	New Source Date	Check if Applicable
Part 411, Subport C	Runoff from material storage piles at cement manufacturing facilities	Ē	2/20/1974	
Part 418 Subpart A	Runoff from phosphate fertilizer manufacturing facilities that comes into contact with any raw materials, finished product, by-products or waste products (SIC 2874)	С	4/8/1974	
Part 423	Coal pile runoff at steam electric generating facilities	0	11/19/1982 10/8/1974 ¹	
Part 429, Subpart I	Discharges resulting from spray down or intentional wetting of logs at wet deck storage areas	A	1/26/1981	
Part 436, Subpart B, C, or D	Mine dewatering discharges at crushed stone mines, construction sand and gravel mines, or industrial sand mines	J	N/A	
Part 443, Subpart A	Runoff from asphalt emulsion facilities	D	7/28/1975	■
Part 445, Subparts A & B	Runoff from hazardous waste and non-hazardous waste landfills	K, L	2/2/2000	
Part 449	Runoff containing urea from airfield pavement deicing at existing and new primary airports with 1,000 or more annual non-propeller aircraft departures	S	6/15/2012	

NSPS promulgated in 1974 were not removed via the 1982 regulation; therefore wastewaters generated by Part 423-applicable sources that were New Sources under the 1974 regulations are subject to the 1974 NSPS.

3. Receiving Waters Information: (Attach a separate list if necessary) Note: Refer to Enclosure 3 for NetDMR Outfall-specific Sector and Impaired Waters Limit Sets.

	e stormwater outfalls			
must be identified by a unique 3-digit ID (e.g., 001, 002). Also provide the latitude and longitude in degrees decimal for each outfall;		Provide the name of the first water of the U.S. that receives stormwater directly from the outfall and/or from the MS4 that the outfall discharges to:	If the receiving water is impaired (on the CWA 303(d) list), list the pollutants that are causing the impairment:	If a TMDL been completed for this receiving waterbody, providing the following information:
Ouffall ID	002 (Sector AA, Subsector AA1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	01104 Aluminum, total recoverable [as Al]; 01040 Copper,	TMDL Name and ID:
Latitude	35.875797	dissolved [as Cu]; 39516 Polychlorinated biphenyls [PCBs];	Pollutant(s) for which there is a TMDL:	
Longitude	-106.327580		00010 Temperature, water deg. centigrade	N/A
Outfall ID	005 (Sector O, Subsector O1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	01104 Aluminum, total recoverable [as Al]; 01040 Copper, dissolved [as Cu]; 39516 Polychlorinated biphenyls [PCBs];	TMDL Name and ID:
Latitude	35.873919			Pollutant(s) for which there is a TMDL:
Longitude	-106.320746	•	00010 Temperature, water deg. centigrade	N/A

Outfall ID	006 (Sector O, Subsector O1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	01104 Aluminum, total recoverable [as Al]; 01040 Copper,	TMDL Name and ID:
Latitude	35.874011		dissolved [as Cu]; 39516 Polychlorinated biphenyls [PCBs];	Pollutant(s) for which there is a TMDL:
Longitude	-106.319858		00010 Temperature, water deg. centigrade	N/A
If <mark>substantic</mark>	ally identical to other o	outfall, list identical outfall ID: 005	_	
Outfall ID	009 (Sector O, Subsector O1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	01104 Aluminum, total recoverable [as Al]; 01040 Copper,	TMDL Name and ID: N/A
Latitude	35.874843		dissolved [as Cu]; 39516 Polychlorinated biphenyls [PCBs];	Pollutant(s) for which there is a TMDL:
Longitude	-106.319412		00010 Temperature, water deg. centigrade	N/A
lf substantic	ally identical to other a	outfall, list identical outfall ID:	*	
Outfall ID	007 (Sector O, Subsector O1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	01104 Aluminum, total recoverable [as Al]; 01040 Copper,	TMDL Name and ID: N/A
Latitude	35.874014		dissolved [as Cu]; 39516 Polychlorinated biphenyls [PCBs];	Pollutant(s) for which there is a TMDL:
Longitude	-106.319203		00010 Temperature, water deg. centigrade	N/A
lf <mark>substanti</mark> a	<mark>ılly identical</mark> to other o	utfall, list identical outfall ID: 009		•
Outfall ID	008 (Sector O, Subsector O1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	01104 Aluminum, total recoverable [as Al]; 01040 Copper,	TMDL Name and ID: N/A
Latitude	35.874617		dissolved [as Cu]; 39516 Polychlorinated biphenyls [PCBs];	Pollutant(s) for which there is a TMDL:
Longitude	-106.318925		00010 Temperature, water deg. centigrade	N/A

Outfall ID	010 (Sector O, Subsector O1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	01104 Aluminum, total recoverable [as Al]; 01040 Copper,	TMDL Name and ID: N/A
Latitude	35.875402		dissolved [as Cu]; 39516 Polychlorinated biphenyls [PCBs];	Pollutant(s) for which there is a TMDL:
Longitude	-106.320301		00010 Temperature, water deg. centigrade	N/A
If <mark>substanti</mark>	<mark>ally identical</mark> to other o	utfall, list identical outfall ID: 009	<u> </u>	
Outfall ID	012 (Sector O, Subsector O1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	01104 Aluminum, total recoverable [as Al]; 01040 Copper,	TMDL Name and ID: N/A
Latitude	35.875532		dissolved [as Cu]; 39516 Polychlorinated biphenyls [PCBs];	Pollutant(s) for which there is a TMDL:
Longitude	-106.320884		00010 Temperature, water deg. centigrade	N/A
If substantic	ally identical to other o	utfall, list identical outfall ID:		
Outfall ID	011 (Sector O, Subsector O1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	01104 Aluminum, total recoverable [as Al]; 01040 Copper,	TMDL Name and ID: N/A
Latitude	35.875563		dissolved [as Cu]; 39516 Polychlorinated biphenyls [PCBs];	Pollutant(s) for which there is a IMDL:
Longitude	-106.320744		00010 Temperature, water deg. centigrade	N/A
lf <mark>substantia</mark>	<mark>illy identical t</mark> o other o	u <mark>tfall,</mark> list identical outfall ID: 012		
Ouffall ID	017 (Sectors AA, F ¹⁴ Subsectors AA1, F4)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	01104 Aluminum, total recoverable [as Al]; 01040 Copper,	TMDL Name and ID: N/A
Latitude	35.872599	33.)	dissolved [as Cu]; 39516 Polychlorinated biphenyls [PCBs];	Pollutant(s) for which there is a TMDL:
Longitude	-106.317066		00010 Temperature, water deg. centigrade	N/A
if substantia	lly identical to other ou	ıtfall, list identical outfali ID:		

Outfall ID	013 (Sectors AA, F Subsectors AA1, F4)	Mortandad Canyon (Within LANL)	51931 Adjusted Gross Alpha; 01040 Copper,	TMDL Name and ID: N/A
Latitude	35.870797		dissolved [as Cu]; 71900 Mercury, total [as Hg];	Pollutant(s) for which there is a TMDL:
Longitude	-106.317867	10	39516 Polychlorinated biphenyls [PCBs]	N/A
If <mark>substanti</mark>	<mark>ally identical t</mark> o other o	u <mark>tfall,</mark> list identical outfall ID: <u>017</u>		
Outfall ID	014 (Sectors AA, F Subsectors AA1, F4)	Mortandad Canyon (Within LANL)	51931 Adjusted Gross Alpha; 01040 Copper,	TMDL Name and ID: N/A
Latitude	35.870890		dissolved [as Cu]; 71900 Mercury, total [as Hg];	Pollutant(s) for which there is a TMDL:
Longitude	-106.317393	Ē:	39516 Polychlorinated biphenyls [PCBs]	N/A
If <mark>substantic</mark>	ılly identical to other ou	u <mark>tfall,</mark> list identical outfall ID: 017	·	•
Outfall ID	015 (Sectors AA, F Subsectors AA1, F4)	Mortandad Canyon (Within LANL)	51931 Adjusted Gross Alpha; 01040 Copper,	TMDL Name and ID: N/A
Latitude	35.871389		dissolved [as Cu]; 71900 Mercury, total [as Hg];	Pollutant(s) for which there is a TMDL:
Longitude	-106.316397		39516 Polychlorinated biphenyls [PCBs]	N/A
lf <mark>substantia</mark>	<mark>lly identical</mark> to other ou	utfall, list identical outfall ID: 017	<u>-</u>	
Outfall ID	016 (Sectors AA, F Subsectors AA1, F4)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	01104 Aluminum, total recoverable [as Al]; 01040 Copper,	TMDL Name and ID: N/A
Latitude	35.872447	• ,	dissolved [as Cu]; 39516 Polychlorinated biphenyls [PCBs];	Pollutant(s) for which there is a TMDL:
Longitude	-106.316721	*	00010 Temperature, water deg. centigrade	N/A
If <mark>substantia</mark>	lly identical to other ou	tfall, list identical outfall ID: 017		

Outfall ID	019 (Sectors AA, F Subsectors AA1, F4)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	01104 Aluminum, total recoverable [as Al]; 01040 Copper,	TMDL Name and ID:
Latitude	35.872682	-	dissolved [as Cu]; 39516 Polychlorinated biphenyls [PCBs];	Pollutant(s) for which there is a TMDL:
Longitude	-106.318467		00010 Temperature, water deg. centigrade	N/A
If substantio	ally identical to other or	utfall, list identical outfall ID: 017		
Ouffall ID	020 (Sectors AA, F Subsectors AA1, F4)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	01104 Aluminum, total recoverable [as Al]; 01040 Copper,	TMDL Name and ID: N/A
Latitude	35.872240	, and the second	dissolved [as Cu]; 39516 Polychlorinated biphenyls [PCBs];	Pollutant(s) for which there is a TMDL:
Longitude	-106.316340		00010 Temperature, water deg. centigrade	N/A
If substantic	ılly identical to other ou	utfall, list îdentical outfall ID:	• •	
Ouffall ID	022 (Sector P, Subsector P1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	01104 Aluminum, total recoverable [as Al]; 01040 Copper,	TMDL Name and ID: N/A
Latitude	35.872661		dissolved [as Cu]; 39516 Polychlorinated biphenyls [PCBs];	Pollutant(s) for which there is a TMDL:
Longitude	-106.313691		00010 Temperature, water deg. centigrade	N/A
lf substantia	lly identical to other ou	rtall, list identical outfall ID:		
Outfall ID	021 (Sector P, Subsector P1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	01104 Aluminum, total recoverable [as Al]; 01040 Copper,	TMDL Name and ID: N/A
Latitude	35.872514	,	dissolved [as Cu]; 39516 Polychlorinated biphenyls [PCBs];	Pollutant(s) for which there is a TMDL:
Longitude	-106.313562		00010 Temperature, water deg. centigrade	N/A
if <mark>substantia</mark>	lly identical to other ou	t <mark>fall,</mark> list identical outfall ID: 022		
VII 15				

Ouffall ID	023 (Sector P, Subsector P1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	01104 Aluminum, total recoverable [as Al]; 01040 Copper,	TMDL Name and ID: N/A
Latitude	35.873193		dissolved [as Cu], 39516 Polychlorinated biphenyls [PCBs];	Pollutant(s) for which there is a TMDL:
Longitude	-106.313116		00010 Temperature, water deg. centigrade	N/A
If <mark>substanti</mark>	ally identical to other o	outfall, list identical outfall ID: 022	<u>.</u>	
Outfall ID	024 (Sector P, Subsector P1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	01104 Aluminum, total recoverable [as Al]; 01040 Copper,	TMDL Name and ID: N/A
Latitude	35.873046		dissolved [as Cu]; 39516 Polychlorinated biphenyls [PCBs];	Pollutant(s) for which there is a TMDL:
Longitude	-106.315069		00010 Temperature, water deg. centigrade	N/A
If <mark>substantic</mark>	ally identical to other o	utfall, list identical outfall ID: 022		
Outfall ID	025 (Sector P, Subsector P1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	01104 Aluminum, total recoverable [as Al]; 01040 Copper,	TMDL Name and ID: N/A
Latitude	35.872928		dissolved [as Cu]; 39516 Polychlorinated biphenyls [PCBs];	Pollutant(s) for which there is a TMDL:
Longitude	-106.315400		00010 Temperature, water deg. centigrade	N/A
If <mark>substantio</mark>	<mark>illy identical</mark> to other o	utfall, list identical outfall ID: 022		
Outfall ID	026 (Sector P, Subsector P1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	01104 Aluminum, total recoverable [as Al]; 01040 Copper,	TMDL Name and ID: N/A
Latitude	35.872114) /-	dissolved [as Cu]; 39516 Polychlorinated biphenyls [PCBs];	Pollutant(s) for which there is a TMDL:
Longitude	-106.313105		00010 Temperature, water deg. centigrade	N/A
If substantia	lly identical to other o	utfall, list identical outfall ID:		

		·		
Outfall ID	027 (Sector P, Subsector P1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	01104 Aluminum, total recoverable [as Al]; 01040 Copper,	TMDL Name and ID: N/A
Latitude	35.872401		dissolved [as Cu]; 39516 Polychlorinated biphenyls [PCBs];	Pollutant(s) for which there is a TMDL:
Longitude	-106.313391		00010 Temperature, water deg. centigrade	N/A
lf <mark>substanti</mark>	ally identical to other o	utfall, list identical outfall ID: 026		
Ouffall ID	028 (Sector P, Subsector P1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	01104 Aluminum, total recoverable [as Al]; 01040 Copper,	TMDL Name and ID: N/A
Latitude	35.872505		dissolved [as Cu]; 39516 Polychlorinated biphenyls [PCBs];	Pollutant(s) for which there is a TMDL:
Longitude	-106.313542	L.	00010 Temperature, water deg. centigrade	N/A
If <mark>substantic</mark>	ally identical to other o	utfall, list identical outfall ID: 026		
Outfall ID	029 (Sector N, Subsector N2)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	01104 Aluminum, total recoverable [as Al]; 01040 Copper,	TMDL Name and ID: N/A
: Latitude	35.873969		dissolved [as Cu]; 39516 Polychlorinated biphenyls [PCBs];	Pollutant(s) for which there is a TMDL:
Longitude	-106.313281		00010 Temperature, water deg. centigrade	N/A
If substantia	ılly identical to other o	utfall, list identical outfall ID:		
Outfall ID	031 (Sector P, Subsector P1)	Mortandad Canyon (within LANL)	51931 Adjusted Gross Alpha; 01040 Copper,	TMDL Name and ID: N/A
Latitude	35.869227		dissolved [as Cu]; 71900 Mercury, total [as Hg];	Pollutant(s) for which there is a TMDL:
Longitude	-106.305685		39516 Polychlorinated biphenyls [PCBs]	N/A
lf substantia	lly identical to other o	utfall, list identical outfall ID:		

Outfall ID	030 (Sector P, Subsector P1)	Mortandad Canyon (within LANL)	51931 Adjusted Gross Alpha; 01040 Copper,	TMDL Name and ID:
Latitude	35.869325		dissolved [as Cu]; 71900 Mercury, total [as Hg];	Pollutant(s) for which there is a TMDL:
Longitude	-106.306926		39516 Polychlorinated biphenyls [PCBs]	N/A
If <mark>substanti</mark>	<mark>ally identical</mark> to other (outfall, list identical outfall (D: 031		<u> </u>
Ouffall ID	032 (Sector P, Subsector P1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	01104 Aluminum, total recoverable [as Al]; 01040 Copper,	TMDL Name and ID: N/A
Latitude	35.870741		dissolved [as Cu]; 39516 Polychlorinated biphenyls [PCBs];	Pollutant(s) for which there is a TMDL:
Longitude	-106.306812		00010 Temperature, water deg. centigrade	N/A
if substantic	ally identical to other o	outfall, list identical outfall ID:	·	
Outfall ID	033 (Sector P, Subsector P1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	01104 Aluminum, total recoverable [as Al]; 01040 Copper,	TMDL Name and ID: N/A
Latitude	35.870712		dissolved [as Cu]; 39516 Polychlorinated biphenyls [PCBs];	Pollutant(s) for which there is a TMDL:
Longitude	-106.306443		00010 Temperature, water deg. centigrade	N/A
lf <mark>substantic</mark>	<mark>ılly identical</mark> to other c	outfall, list identical outfall ID: 032	==:	
Outfall ID	034 (Sector P, Subsector P1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	01104 Aluminum, total recoverable [as Al]; 01040 Copper,	TMDL Name and ID: N/A
Latitude	35.870603		dissolved [as Cu]; 39516 Polychlorinated biphenyls [PCBs];	Pollutant(s) for which there is a TMDL:
Longitude	-106.306055		00010 Temperature, water deg. centigrade	N/A

Outfall ID	035 (Sector P, Subsector P1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	01104 Aluminum, total recoverable [as Al]; 01040 Copper,	TMDL Name and ID:	
Latitude	35.870474		dissolved [as Cu]; 39516 Polychlorinated biphenyls [PCBs];	Pollutant(s) for which there is a TMDL:	
Longitude	-106.305432		00010 Temperature, water deg. centigrade	N/A	
lf <mark>substanti</mark>	<mark>ally identical</mark> to other o	utfall, list identical outfall ID: 032			
Outfall ID	036 (Sector P, Subsector P1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	01104 Aluminum, total recoverable [as Al]; 01040 Copper,	TMDL Name and ID: N/A	
Latitude	35.867825		dissolved [as Cu]; 39516 Polychlorinated biphenyls [PCBs]; 00010 Temperature,	Pollutant(s) for which there is a TMDL:	
Longitude	-106.293388		N/A		
If substantially identical to other outfall, list identical outfall ID:					
Outfall ID	037 (Sector P, Subsector P1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	01104 Aluminum, total recoverable [as Al]; 01040 Copper,	TMDL Name and ID: N/A	
Latitude	35.867859		dissolved [as Cu]; 39516 Polychlorinated biphenyls [PCBs];	Pollutant(s) for which there is a TMDL:	
Longitude	-106.292992	00010 Temperature, water deg. centigrade		N/A	
If substantially identical to other outfall, list identical outfall ID: 036					
Ouffall ID	039 (Sector P, Subsector P1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	01104 Aluminum, total recoverable [as Al]; 01040 Copper,	TMDL Name and ID: N/A	
Latitude	35.867826		dissolved [as Cu]; 39516 Polychlorinated biphenyls [PCBs];	Pollutant(s) for which there is a TMDL:	
			00010 Temperature,	N/A	
Longitude	-106.291726		water deg. centigrade		

Ouffall ID	038 (Sector P, Subsector P1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	01104 Aluminum, total recoverable [as Al]; 01040 Copper,	TMDL Name and ID:	
Latitude	35.867855		dissolved [as Cu]; 39516 Polychlorinated biphenyls [PCBs];	Pollutant(s) for which there is a TMDL:	
Longitude	-106.292211		00010 Temperature, water deg. centigrade	N/A	
If substantially Identical to other outfall, list identical outfall ID: 039					
Outfall ID	040 (Sector P, Subsector P1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	01104 Aluminum, total recoverable [as Al]; 01040 Copper,	TMDL Name and ID: N/A	
Latitude	35.867839		dissolved [as Cu]; 39516 Polychlorinated biphenyls [PCBs]; 00010 Temperature,	Pollutant(s) for which there is a TMDL:	
Longitude	-106.291955		N/A		
If substantially identical to other outfall, list identical outfall ID: 039					
Outfall ID	042 (Sector P, Subsector P1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	01104 Aluminum, total recoverable [as Al]; 01040 Copper,	TMDL Name and ID: N/A	
Latitude	35.867047		dissolved [as Cu]; 39516 Polychlorinated biphenyls [PCBs];	Pollutant(s) for which there is a TMDL:	
Longitude	-106.289163	00010 Temperature, water deg. centigrade		N/A	
If substantially identical to other outfall, list identical outfall ID:					
Ouffall ID	041 (Sector P, Subsector P1)	Mortandad Canyon (within LANL)	51931 Adjusted Gross Alpha; 01040 Copper,	TMDL Name and ID: N/A	
Latitude	35.866377		dissolved [as Cu]; 71900 Mercury, total [as Hg];	Pollutant(s) for which there is a TMDL:	
Longitude	-106.291397		39516 Polychlorinated biphenyls [PCBs]	N/A	
If substantially identical to other outfall, list identical outfall ID: 042					

Outfall ID	043 (Sector P, Subsector P1)	Mortandad Canyon (within LANL)	51931 Adjusted Gross Alpha; 01040 Copper,	TMDL Name and ID: N/A	
Latitude	35.866084	dissolved [as Cu]; 71900 Mercury, total [as Hg];		Pollutant(s) for which there is a TMDL:	
Longitude	-106.290165		39516 Polychlorinated biphenyls [PCBs]		
If substantially identical to other outfall, list identical outfall ID:					
Outfall ID	074 (Sector A, Subsector A4)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	01104 Aluminum, total recoverable [as Al]; 01040 Copper,	TMDL Name and ID: N/A	
Latitude	35.875034		dissolved [as Cu]; 39516 Polychlorinated biphenyls [PCBs]; 00010 Temperature,	Pollutant(s) for which there is a TMDL:	
Longitude	-106.327328		N/A		
If substantially identical to other outfall, list identical outfall ID:					
Ouffall ID	073 (Sector A, Subsector A4)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	01104 Aluminum, total recoverable [as Al]; 01040 Copper, dissolved [as Cu]; 39516 Polychlorinated biphenyls [PCBs];	TMDL Name and ID: N/A	
Latitude	35.874819	331)		Pollutant(s) for which there is a TMDL:	
Longitude	-106.324283	00010 Temperature, water deg. centigrade		N/A	
If <mark>substantially identical</mark> to other outfall, list identical outfall ID: 074					
Ouffall ID	075 (Sector P, Subsector P1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	01104 Aluminum, total recoverable [as Al]; 01040 Copper,	TMDL Name and ID: N/A	
Latitude	35.871154	/	dissolved [as Cu]; 39516 Polychlorinated biphenyls [PCBs];	Pollutant(s) for which there is a TMDL:	
Longitude	-106.312940		00010 Temperature, water deg. centigrade	N/A	
If substantially identical to other outfall, list identical outfall ID:					

4. Provide the following Information about your outfall latitude longitude:
Latitude/Longitude Data Source:
If you used a USGS topographic map, what was the scale?
Horizontal Reference Datum: NAD 27 🔳 NAD 83 🔲 WGS 84
5. Does your facility discharge into a Muncipal Separate Storm Sewer System (MS4)? 🔲 YES 🔳 NO
If yes, provide the name of the MS4 operator; N/A
6. Check if you discharge to any of the waters of the U.S. that are 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) or as a Tier 3 water (Outstanding National Resource Water)? (See Appendix L).
☐ Tier 2/2,5, Provide the name(s) of receiving water(s):
☐ Tier 3 (Outstanding National Resource Waters)*
* Note: You are ineligible for coverage if you are a new discharger or new source to waters designated as Tier 3 (outstanding national resource waters) for antidegradation purposes under 40 CFR 131.13(a)(3). 7. If you are subject to benchmark monitoring requirements for a hardness-dependent metal, what is the hardness of your receiving water(s) (see Appendix J)? 82 [mg/L]
8. If you are subject to benchmark monitoring requirements for a hardness-dependent metal, does your facility discharge into any saltwater receiving waters? YES INO
9. Does your facility discharge to a federal CERCLA site listed in Appendix P? 🔲 YES 📗 NO
If yes, did you notify the EPA Regional Office in advance of filing your NOI, and did the EPA Regional Office determine that you are eligible for permit
coverage pursuant to Part 1.1.4.10*? TYES TO NO * Note: If you discharge to a federal CERCLA site listed in Appendix P, you are ineligible for coverage under this permit unless you notify the EPA Regional
Office in advance and the EPA Regional Office determines you are eligible coverage under this permit. In determining your eligibility for coverage under this Part, the EPA Regional Office may evaluate whether you have included adequate controls and/or procedures to ensure that your discharges will not lead to recontamination of aquatic media at the CERCLA Site such that it will to cause or contribute to an exceedance of a water quality standard.
F. Stormwater Pollution Prevention Plan (SWPPP) Information
1. Has the SWPPP been prepared in advance of filing this NOI, as required? YES NO
2. SWPPP Contact Information:
First Name, Middle Initial, Last Name: Hollly L L Wheleller Hollly
Professional Title: Environmentall Professional
Phone: 505 - 667 - 1312 Ext
E-mail: hbenson@lanl.gov
3. SWPPP Availability: Your current SWPPP or certain information from your SWPPP must be made available through one of the following two 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) (such information may be redacted), but you must clearly identify those portions of the SWPPP that are being withheld from public access.
Option 1: Maintain a current copy of your SWPPP on an Internet page (Universal Resource Locator or URL),
Provide the web address URL: eprr.lanl.gov
☐ Option 2: Provide the following information from your SWPPP:
A. Describe your onsite industrial activities exposed to stormwater (e.g., material storage; equipment fueling, maintenance, and cleaning; cutting steel beams), and potential spill and leak areas:

B. List the pollutant(s) or pollutant constituent(s) associated with each industrial activity exposed to stormwater that could be discharged in stormwa	ier and any
authorized non-stormwater discharges listed in Part 1,1.3:	
·	
C. Describe the control measures you will employ to comply with the non-numeric technology-based effluent limits required in Part 2.1.2 and Part 8, on the other measures taken to comply with the requirements in Part 2.2 Water Quality-Based Effluent Limitations (see Part 5.2.4):	and any
D. Provide a schedule for good housekeeping and maintenance (see Part 5.2.5.1) and a schedule for all inspections required in Part 4 (see Part 5.2.5	. 2]:
G. Endangered Species Protection	
Using the instructions in Appendix E of the MSGP, under which endangered species criterion listed in Part 1.1,4.5 are you eligible for coverage und permit (only check 1 box)?*	er this
□A □B □C ■D □E	
 Note: After you submit your NOI and before your NOI is authorized, EPA may notify you if any additional controls are necessary to ensure your disc have no likely adverse affects on listed species and critical habitat. 	:harges
have no likely adverse affects on listed species and critical habitat.	_
have no likely adverse affects on listed species and critical habitat. 2. Provide a brief summary of the basis for the criterion selected in Appendix E (e.g., communication with U.S. Fish and Wildlife Service or National Mo	_
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EPC-DO: 18-358 LA-UR-18-29182 Page 15 of 16

H. Historic Preservation					
1. If your facility is not located on Indian country lands, is your facility located on a properly of religious or cultural significance to an Indian tribe?					
If yes, provide the name of the Indian tribe associated with the property: San Ildefonso Pueblo					
2. Using the instructions in Appendix F of the MSGP, under which historic properties preservation criterion listed in Part 1.1.4.6 are you eligible for coverage under this permit (only check 1 box)?					
	в 🗆 С	D			
I. Certification Information					
to assure that qu system, or those	alified personne persons directly i	this document and all attachments were prepared of properly gathered and evaluated the information suresponsible for gathering the information, the information are significant penalties for submitting false information.	bmitted, Based on m tion submitted is, to th	y inquiry of the person or persons who manage the ne best of my knowledge and belief, true, accurate,	
First Name, Middle Initial, Last Name: Michaell W Hazen Hazen					
Title:	Associ	alte Laboratory Dir	e c t o r		
Signature:	Africa	alla		Date: 10/01/2018	
E-mail:	m h a z e r	n@ [an [.gov]]]]		100	

ENCLOSURE 3

NetDMR Monitoring Requirements for Los Alamos National Laboratory, Operated by Triad National Security, LLC

EPC-DO: 18-358

LA-UR-18-29182

					Proposed			ELG, Modifi the NM Water	ed Benchma Quality Star	rk, and Impa idards (20.6.	ired Waters Lim 4.900 NMAC [N	its per N ew Mexi	ASGP Secti	on 9.6.2 strative	and Code])		
Permit ID	Facility	Permitted Feature) Subsector	Consolidated Discharge # (Limit Set)	Discharge Description	Parameter Code		Symbol	Quality Value	Limit Type	Units	Freq. of	Smpl.	Monitoring Period	Monitoring Period End	DMR Due
TBD	Los Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating	01104 1 0	Aluminum, total recoverable [as Al]	<=		Maximum	_	_	+		Date	Date
TBD	Los Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating	01045 1 0	Iron, total [as Fe]	<=		Maximum	ug/L	1/60	Gr	4/1/2019	5/31/2019	7/31/201
TBD	Los Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating	51450 1 0	Nitrite Plus Nitrate Total	<=		Maximum	ug/L	1/60	Gr	4/1/2019	5/31/2019	7/31/201
TBD	Los Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating	01090 1 0	Zinc, dissolved [as Zn]	<=		Maximum	mg/L	1/60	Gr	4/1/2019	5/31/2019	
TBD	Los Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating	01104 1 0	Aluminum, total recoverable [as Al]	<=		Maximum	ug/L	1/60	Gr	4/1/2019	5/31/2019	A COLUMN TO CALL THE
rbd	Los Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating	01045 1 0	Iron, total [as Fe]	<=		Maximum Maximum	ug/L	1/60	Gr	6/1/2019	7/31/2019	9/30/201
TBD	Los Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating	51450 1 0	Nitrite Plus Nitrate Total	<=			ug/L	1/60	Gr	6/1/2019	7/31/2019	9/30/201
rBD	Los Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating	01090 1 0	Zinc, dissolved [as Zn]	+		/laximum	mg/L	1/60	Gr	6/1/2019	7/31/2019	9/30/201
TBD .	Los Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating	0110410	Aluminum, total recoverable [as Al]	<=		/laximum	ug/L	1/60	Gr	6/1/2019	7/31/2019	9/30/201
rBD	Los Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating	01045 1 0	Iron, total [as Fe]	<=		/laximum	ug/L	1/60	Gr	8/1/2019	9/30/2019	11/30/201
rBD	Los Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating	51450 1 0	Nitrite Plus Nitrate Total	<=		/laximum	ug/L	1/60	Gr	8/1/2019	9/30/2019	11/30/201
TBD .	Los Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating	01090 1 0		<=		1aximum	mg/L	1/60	Gr	8/1/2019	9/30/2019	
BD	Los Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating	01104 1 0	Zinc, dissolved [as Zn]	<=		1aximum	ug/L	1/60	Gr	8/1/2019	9/30/2019	
BD	Los Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating		Aluminum, total recoverable [as Al]	<=		1aximum	ug/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
BD	Los Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating	01045 1 0	iron, total [as Fe]	<=		1aximum	ug/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
BD	Los Alamos National Laboratory	002	AA	AA1		11- Fabricated Metal Products, except Coating		Nitrite Plus Nitrate Total	<=	0.68 M	laximum	mg/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
BD	Los Alamos National Laboratory	002	AA	AA1	002-IW	IW - Impaired Water		Zinc, dissolved [as Zn]	<=	99 M	laximum	ug/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
BD	Los Alamos National Laboratory	002	AA	AA1	002-IW	IW - Impaired Water		Aluminum, total recoverable [as Al]	<=	1010 M	laximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
BD	Los Alamos National Laboratory	002	AA	AA1	002-IW			Copper, dissolved [as Cu]	<=	7 M	laximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	
BD	Los Alamos National Laboratory	002	AA	AA1		IW - Impaired Water	39516 1 0	Polychlorinated biphenyls [PCBs]	<=	0.2 M	laximum	ug/L	1/YR	Gr	4/1/2019		1/31/2020
DU	Los Alamos National Laboratory	002	AA	AAI	002-IW	IW - Impaired Water	00010 1 0	Temperature, water deg. centigrade	<=		aximum	deg C	1/YR	Gr		11/30/2019	1/31/2020
0.0	Las Alamasa Nistina al Labourtano	005							1		axiii airi	deg C	1/10	Gr	4/1/2019	11/30/2019	1/31/2020
BD	Los Alamos National Laboratory	005	0	01	005-01	O1 - Steam Electric Generating Facilities	01045 1 0	Iron, total [as Fe]	<=	1000 M	avimum		1/50	_			
BD	Los Alamos National Laboratory	005	0	01	005-01	O1 - Steam Electric Generating Facilities	01045 1 0	Iron, total [as Fe]	<=	1000 M		ug/L	1/60	Gr	4/1/2019	5/31/2019	7/31/2019
BD	Los Alamos National Laboratory	005	0	01	005-01	O1 - Steam Electric Generating Facilities		Iron, total [as Fe]	<=	1000 M		ug/L	1/60	Gr	6/1/2019	7/31/2019	9/30/2019
BD	Los Alamos National Laboratory	005	0	01	005-01	O1 - Steam Electric Generating Facilities	01045 1 0	Iron, total [as Fe]	<=			ug/L	1/60	Gr	8/1/2019		11/30/2019
BD	Los Alamos National Laboratory	005	0	01	005-IW	W - Impaired Water		Aluminum, total recoverable [as Al]		1000 M		ug/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
BD	Los Alamos National Laboratory	005	0	01	005-IW	W - Impaired Water		Copper, dissolved [as Cu]	<=	1010 Ma		ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
BD	Los Alamos National Laboratory	005	0	01	005-IW	W - Impaired Water		Polychlorinated biphenyls [PCBs]	<=		aximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
BD	Los Alamos National Laboratory	005	0	01	005-IW	W - Impaired Water			<=		aximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
							0001010	Temperature, water deg. centigrade	<=	24 Ma	aximum	deg C	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
BD	Los Alamos National Laboratory	009	0	01	009-01	01 - Steam Electric Generating Facilities	01045 1 0										
BD	Los Alamos National Laboratory	009	0	01	009-01	O1 - Steam Electric Generating Facilities		ron, total [as Fe]	<=	1000 Ma		ug/L	1/60	Gr	4/1/2019	5/31/2019	7/31/2019
BD	Los Alamos National Laboratory	009	0	01		D1 - Steam Electric Generating Facilities		ron, total [as Fe]	<=	1000 Ma	ximum	ug/L	1/60	Gr	6/1/2019	7/31/2019	9/30/2019
BD	Los Alamos National Laboratory	009	0	01		D1 - Steam Electric Generating Facilities		ron, total [as Fe]	<=	1000 Ma	aximum	ug/L	1/60	Gr	8/1/2019		11/30/2019
BD	Los Alamos National Laboratory	009	0	01		W - Impaired Water		ron, total [as Fe]	<=	1000 Ma	iximum	ug/L	1/60	Gr			1/31/2020
BD	Los Alamos National Laboratory	009	0	01			0110410	Aluminum, total recoverable [as Al]	<=	1010 Ma		ug/L	1/YR	Gr			
BD	Los Alamos National Laboratory	009	0	01		W - Impaired Water		Copper, dissolved [as Cu]	<=	7 Ma		ug/L	1/YR	Gr			1/31/2020
BD	Los Alamos National Laboratory	009	0			W - Impaired Water	39516 1 0 F	Polychlorinated biphenyls [PCBs]	<=	0.2 Ma		ug/L	1/YR	Gr			1/31/2020
50	2007 Harrios National Eagoratory	003		01	009-IW	W - Impaired Water	00010 1 0 T	emperature, water deg. centigrade	<=	24 Ma		deg C	1/YR	Gr	A STATE OF THE PARTY OF THE PAR		1/31/2020
BD	Los Alamos National Laboratory	012		-01	012.01	04 Ct						Jeg C	2/113	GI	4/1/2019	11/30/2019	1/31/2020
	SIXSYMBATICSSAULT	012	0	01		1 - Steam Electric Generating Facilities	01045 1 0 li	ron, total [as Fe]	<=	1000 Ma	ximum	ug/i	1/60		4 14 19949	# /6 . / ·	
BD	Los Alamos National Laboratory	012	0	01		1 - Steam Electric Generating Facilities		ron, total [as Fe]	<=	1000 Ma		ug/L	1/60	Gr	4/1/2019		7/31/2019
BD	Los Alamos National Laboratory	012	0	01		1 - Steam Electric Generating Facilities		on, total [as Fe]	<=	1000 Ma		ug/L	1/60	Gr	6/1/2019		9/30/2019
BD	Los Alamos National Laboratory	012	0	01		1 - Steam Electric Generating Facilities		on, total [as Fe]	<=	1000 Max		ug/L	1/60	Gr	8/1/2019		11/30/2019
BD	Los Alamos National Laboratory	012	0	01		N - Impaired Water		Juminum, total recoverable [as Al]				ug/L	1/60				1/31/2020
BD	Los Alamos National Laboratory	012	0	01		N - Impaired Water		opper, dissolved [as Cu]	<=	1010 Max		ug/L	1/YR	Gr			1/31/2020
BD	Los Alamos National Laboratory	012	0	01	012-IW I	N - Impaired Water		olychlorinated biphenyls [PCBs]	<=				1/YR	Gr		11/30/2019	1/31/2020
BD	Los Alamos National Laboratory	012	0	01	012-IW I	V - Impaired Water		emperature, water deg. centigrade	<=	0.2 Max			1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
							10 10	emperatore, water deg. centigrade	<=	24 Max	kimum (deg C	1/YR	Gr	4/1/2019		1/31/2020
	Los Alamos National Laboratory	017	AA, F	AA1, F4	017-11 1	1- Fabricated Metal Products, except Coating	0110410 A	luminum total second to the second		99.00							
3D	Los Alamos National Laboratory	017	AA, F	AA1, F4	017-11 1	1- Fabricated Metal Products, except Coating		luminum, total recoverable [as Al]	<=	1010 Max		ug/L	1/60	Gr	4/1/2019	5/31/2019	7/31/2019
BD	Los Alamos National Laboratory	017	AA, F	AA1, F4	017-11 1	1- Fabricated Metal Products, except Coating		opper, dissolved [as Cu]	<=			ug/L	1/60	Gr			7/31/2019
3D	Los Alamos National Laboratory	017	AA, F	AA1, F4	017-11 1	1- Fabricated Metal Products, except Coating		on, total [as Fe]	<=	1000 Max			1/60	Gr			7/31/2019
	Los Alamos National Laboratory	017	AA, F	AA1, F4		1- Fabricated Metal Products, except Coating		itrite Plus Nitrate Total	<=	0.68 Max	rimum r		1/60	Gr			7/31/2019
						The state of the s	01090 1 0 Zi	nc, dissolved [as Zn]	<=	99 Max			1/60			5/31/2019	

								ELG, Modifie	d Benchma	ELG, Modified Benchmark, and Impaired Waters Limit							
					Proposed		the NM Water Quality Standards (20.6.4.900 NMAC [New Me)						ico Admin	istrative (Code])		
Permit ID	Facility	Permitted Feature	Sector(s)	Subsector	Consolidated Discharge #	Dischage Description	Parametei	r		Quality			Freq. o	f Smpl.	Monitoring Period	Monitoring Period End	
					<u> </u>	Discharge Description	Code	Parameter Name	Symbol	Value	Limit Type	Units	Analysi	Type	Start Date	Date	Date
TBD	Los Alamos National Laboratory	017	AA, F	AA1, F4	017-11	11- Fabricated Metal Products, except Coating	01104 1 0	Aluminum, total recoverable [as Al]	<=	1010	Maximum	ug/L	1/60	Gr	6/1/2019		
TBD	Los Alamos National Laboratory	017	AA, F	AA1, F4	017-11	11- Fabricated Metal Products, except Coating	01040 1 0	Copper, dissolved [as Cu]	<=		Maximum	ug/L	1/60	Gr		7/31/2019	9/30/20:
TBD	Los Alamos National Laboratory	017	AA, F	AA1, F4		11- Fabricated Metal Products, except Coating	01045 1 0	Iron, total [as Fe]	<=		Maximum	ug/L	1/60	Gr	6/1/2019		1.00
TBD	Los Alamos National Laboratory	017	AA, F	AA1, F4		11- Fabricated Metal Products, except Coating	51450 1 0	Nitrite Plus Nitrate Total	<=		Maximum	mg/L	1/60	Gr	6/1/2019	7/31/2019	0.0000000000000000000000000000000000000
TBD	Los Alamos National Laboratory	017	AA, F	AA1, F4	017-11	11- Fabricated Metal Products, except Coating	01090 1 0	Zinc, dissolved [as Zn]	<=		Maximum	ug/L	1/60	_	6/1/2019	7/31/2019	
TBD	Los Alamos National Laboratory	017	AA, F	AA1, F4		11- Fabricated Metal Products, except Coating	01104 1 0	Aluminum, total recoverable [as Al]	<=		Maximum			Gr	6/1/2019	7/31/2019	
TBD	Los Alamos National Laboratory	017	AA, F	AA1, F4		11- Fabricated Metal Products, except Coating	01040 1 0	Copper, dissolved [as Cu]	<=		Maximum	ug/L	1/60	Gr	8/1/2019	9/30/2019	
TBD	Los Alamos National Laboratory	017	AA, F	AA1, F4	017-11	11- Fabricated Metal Products, except Coating	01045 1 0	Iron, total [as Fe]	<=		Maximum	ug/L	1/60	Gr	8/1/2019	9/30/2019	
TBD	Los Alamos National Laboratory	017	AA, F	AA1, F4		11- Fabricated Metal Products, except Coating	51450 1 0	Nitrite Plus Nitrate Total	<=		Maximum	ug/L	1/60	Gr	8/1/2019	9/30/2019	
BD	Los Alamos National Laboratory	017	AA, F	AA1, F4	017-11	11- Fabricated Metal Products, except Coating	01090 1 0	Zinc, dissolved [as Zn]				mg/L	1/60	Gr	8/1/2019	9/30/2019	
BD	Los Alamos National Laboratory	017	AA, F	AA1, F4		11- Fabricated Metal Products, except Coating	0110410	Aluminum, total recoverable [as Al]	<=		Maximum	ug/L	1/60	Gr	8/1/2019	9/30/2019	11/30/201
BD	Los Alamos National Laboratory	017	AA, F	AA1, F4		11- Fabricated Metal Products, except Coating	01040 1 0	Copper, dissolved [as Cu]	<=		Maximum	ug/L	1/60	Gr	10/1/2019	11/30/2019	1/31/202
BD	Los Alamos National Laboratory	017	AA, F	AA1, F4		11- Fabricated Metal Products, except Coating	01045 1 0	Iron, total [as Fe]	<=		Maximum	ug/L	1/60	Gr	10/1/2019	11/30/2019	1/31/202
BD	Los Alamos National Laboratory	017	AA, F	AA1, F4	017-11	11- Fabricated Metal Products, except Coating	51450 1 0		<=		Maximum	ug/L	1/60	Gr	10/1/2019	11/30/2019	1/31/202
BD	Los Alamos National Laboratory	017	AA, F	AA1, F4	017-11	11- Fabricated Metal Products, except Coating	01090 1 0	Nitrite Plus Nitrate Total	<=		Maximum	mg/L	1/60	Gr	10/1/2019	11/30/2019	1/31/202
BD	Los Alamos National Laboratory	017	AA, F	AA1, F4	017-IW	IW - Impaired Water		Zinc, dissolved [as Zn]	<=		Maximum	ug/L	1/60	Gr	10/1/2019	11/30/2019	
BD	Los Alamos National Laboratory	017	AA, F	AA1, F4	017-IW	IW - Impaired Water		Aluminum, total recoverable [as Al]	<=	1010	Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	
	Los Alamos National Laboratory	017	AA, F	AA1, F4		IW - Impaired Water	01040 1 0	Copper, dissolved [as Cu]	<=	7 1	Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	
BD	Los Alamos National Laboratory	017	AA, F	AA1, F4		IW - Impaired Water	3951610	Polychlorinated biphenyls [PCBs]	<=	0.2	Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	
		027	717.71	ACCES 14	017-100	TWO - Impaned water	00010 1 0	Temperature, water deg. centigrade	<=	24	Maximum	deg C	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
BD	Los Alamos National Laboratory	020	AA, F	AA1, F4	020-11	11 Cabriertad Martal Barrier	2013									,00,2025	1/31/102
BD	Los Alamos National Laboratory	020	AA, F	AA1, F4		11- Fabricated Metal Products, except Coating		Aluminum, total recoverable [as Al]	<=	1010	Maximum	ug/L	1/60	Gr	4/1/2019	5/31/2019	7/31/2019
BD		020	AA, F		020-11	11- Fabricated Metal Products, except Coating	01040 1 0	Copper, dissolved [as Cu]	<=		Maximum	ug/L	1/60	Gr	4/1/2019	5/31/2019	7/31/2019
-	Los Alamos National Laboratory			AA1, F4	020-11	11- Fabricated Metal Products, except Coating	01045 1 0	Iron, total [as Fe]	<=		Maximum	ug/L	1/60	Gr	4/1/2019	5/31/2019	
BD	Los Alamos National Laboratory	020	AA, F	AA1, F4		11- Fabricated Metal Products, except Coating	51450 1 0	Nitrite Plus Nitrate Total	<=		Maximum	mg/L	1/60	Gr	4/1/2019	5/31/2019	
BD	Los Alamos National Laboratory	020	AA, F	AA1, F4		11- Fabricated Metal Products, except Coating	01090 1 0	Zinc, dissolved [as Zn]	<=		Maximum	ug/L	1/60	Gr	4/1/2019		7/31/2019
BD	Los Alamos National Laboratory	020	AA, F	AA1, F4	020-11	11- Fabricated Metal Products, except Coating	01104 1 0	Aluminum, total recoverable [as Al]	<=		Maximum	ug/L	1/60	_		5/31/2019	7/31/2019
BD	Los Alamos National Laboratory	020	AA, F	AA1, F4	020-11	11- Fabricated Metal Products, except Coating	01040 1 0	Copper, dissolved [as Cu]	<=		Maximum	ug/L	1/60	Gr	6/1/2019	7/31/2019	9/30/2019
BD	Los Alamos National Laboratory	020	AA, F	AA1, F4		11- Fabricated Metal Products, except Coating	01045 1 0	Iron, total [as Fe]	<=		Maximum		11304 1113011	Gr	6/1/2019	7/31/2019	9/30/2019
BD	Los Alamos National Laboratory	020	AA, F	AA1, F4	020-11	11- Fabricated Metal Products, except Coating	51450 1 0	Nitrite Plus Nitrate Total	<=		Maximum	ug/L	1/60	Gr	6/1/2019	7/31/2019	9/30/2019
BD	Los Alamos National Laboratory	020	AA, F	AA1, F4	020-11	11- Fabricated Metal Products, except Coating	0109010	Zinc, dissolved [as Zn]	<=		//aximum	mg/L	1/60	Gr	6/1/2019	7/31/2019	9/30/2019
BD	Los Alamos National Laboratory	020	AA, F	AA1, F4	020-11	11- Fabricated Metal Products, except Coating		Aluminum, total recoverable [as Al]	<=		//aximum //aximum	ug/L	1/60	Gr	6/1/2019	7/31/2019	9/30/2019
BD	Los Alamos National Laboratory	020	AA, F	AA1, F4		11- Fabricated Metal Products, except Coating		Copper, dissolved [as Cu]				ug/L	1/60	Gr	8/1/2019		11/30/2019
BD	Los Alamos National Laboratory	020	AA, F	AA1, F4		11- Fabricated Metal Products, except Coating		Iron, total [as Fe]	<=		/laximum	ug/L	1/60	Gr	8/1/2019	9/30/2019	11/30/2019
BD	Los Alamos National Laboratory	020	AA, F	AA1, F4	020-11 1	11- Fabricated Metal Products, except Coating		Nitrite Plus Nitrate Total	<=		/laximum	ug/L	1/60	Gr	8/1/2019	9/30/2019	11/30/2019
BD	Los Alamos National Laboratory	020	AA, F	AA1, F4	020-11 1	11- Fabricated Metal Products, except Coating		Zinc, dissolved [as Zn]	<=		/laximum	mg/L	1/60	Gr	8/1/2019	9/30/2019	11/30/2019
BD	Los Alamos National Laboratory	020	AA, F	AA1, F4	020-11 1	1- Fabricated Metal Products, except Coating			<=		1aximum	ug/L	1/60	Gr	8/1/2019	9/30/2019	11/30/2019
BD	Los Alamos National Laboratory	020	AA, F	AA1, F4	020-11 1	11- Fabricated Metal Products, except Coating		Aluminum, total recoverable [as Al]	<=		1aximum	ug/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
	Los Alamos National Laboratory	020	AA, F	AA1, F4	020-11 1	1- Fabricated Metal Products, except Coating		Copper, dissolved [as Cu]	<=		1aximum	ug/L	1/60	Gr		11/30/2019	1/31/2020
	Los Alamos National Laboratory	020	AA, F	AA1, F4		.1- Fabricated Metal Products, except Coating		Iron, total [as Fe]	<=		laximum	ug/L	1/60				1/31/2020
	Los Alamos National Laboratory	020	AA, F	AA1, F4		.1- Fabricated Metal Products, except Coating		Nitrite Plus Nitrate Total	<=		laximum	mg/L	1/60				1/31/2020
	Los Alamos National Laboratory	020	AA, F	AA1, F4		W - Impaired Water		Zinc, dissolved [as Zn]	<=		laximum	ug/L	1/60				1/31/2020
	Los Alamos National Laboratory	020	AA, F	AA1, F4			12.8 Set	Aluminum, total recoverable [as Al]	<=	1010 M	laximum	ug/L	1/YR	Gr		11/30/2019	1/31/2020
	Los Alamos National Laboratory	020	AA, F	AA1, F4		W - Impaired Water		Copper, dissolved [as Cu]	<=		laximum	ug/L	1/YR	Gr		11/30/2019	1/31/2020
	Los Alamos National Laboratory	020	AA, F	AA1, F4		W - Impaired Water		Polychlorinated biphenyls [PCBs]	<=	0.2 M	laximum	ug/L	1/YR	Gr		11/30/2019	1/31/2020
-	200 Alamos National Laboratory	020	77, F	AA1, F4	020-IW IN	W - Impaired Water	00010 1 0	Temperature, water deg. centigrade	<=	24 M	laximum	deg C	1/YR	Gr		11/30/2019	1/31/2020
- I	Los Alamos National Laboratory	022			000 1111	. Discretified							-, , , ,	-51	1/1/2019	11/30/2019	1/31/2020
		022	Р	P1		W - Impaired Water	0110410	Aluminum, total recoverable [as Al]	<=	1010 M	aximum	ug/L	1/YR	Gr	4/1/2010	11/20/2010	1/21/2022
	Los Alamos National Laboratory	022	Р	P1		N - Impaired Water		Copper, dissolved [as Cu]	<=			ug/L	1/YR				1/31/2020
	Los Alamos National Laboratory	022	Р	P1		N - Impaired Water	39516 1 0 F	Polychlorinated biphenyls [PCBs]	<=					Gr	Collins of the Collin	THE RESERVE OF THE PARTY OF THE	1/31/2020
BD	Los Alamos National Laboratory	022	Р	P1	022-IW IV	N - Impaired Water		Temperature, water deg. centigrade	<=			ug/L	1/YR	Gr			1/31/2020
								, tractanguat		24 101	o A III III III	deg C	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
$\overline{}$	Los Alamos National Laboratory	026	P	P1	026-IW IV	V - Impaired Water	0110410 A	Aluminum, total recoverable [as Al]	<=	101014	n til man to a		4.5:-				
	Los Alamos National Laboratory	026	Р	P1	026-IW IV	V - Impaired Water		Copper, dissolved [as Cu]	<=	1010 M		ug/L	1/YR				1/31/2020
BD	Los Alamos National Laboratory	026	P	P1	026-IW IV	V - Impaired Water		- FF - 7 GISSOIVEG [GS CG]	<- I	711/7	aximilm I	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020

					Proposed	Proposed		ELG, Modifie the NM Water	d Benchma Quality Star	rk, and Imp idards (20.	paired Waters Lin 6.4.900 NMAC [N	nits per N lew Mexi	ASGP Sect	on 9.6.2	and Code])		
Permit ID	Facility			Subsector	Consolidated Discharge # (Limit Set)	Discharge Description	Parameter Code		Symbol	Quality Value	Limit Type	Units	Freq. o	f Smpl.		Monitoring Period End Date	DMR Due
TBD	Los Alamos National Laboratory	026	Р	P1	026-IW	IW - Impaired Water	00010 1 0	Temperature, water deg. centigrade	<=	24	Maximum	deg C		Gr	4/1/2019		Date
TDD	Lac Alamac National Laboratory	020	N	NO	020 111							- BUB C	1 4/11	- 01	4/1/2019	11/30/2019	1/31/202
TBD TBD	Los Alamos National Laboratory Los Alamos National Laboratory	029	N	N2 N2	029-IW	IW - Impaired Water	01104 1 0	Aluminum, total recoverable [as Al]	<=	1010	Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/202
TBD	Los Alamos National Laboratory	029	N	N2 N2	029-IW	IW - Impaired Water	01040 1 0	Copper, dissolved [as Cu]	<=		Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	
TBD	Los Alamos National Laboratory	029	N	N2 N2	029-IW	IW - Impaired Water	39516 1 0	Polychlorinated biphenyls [PCBs]	<=	0.2	Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/202
100	Los Alamos Ivational Eaboratory	023	<u> </u>	INZ	029-IW	IW - Impaired Water	00010 1 0	Temperature, water deg. centigrade	<=	24	Maximum	deg C	1/YR	Gr	4/1/2019	11/30/2019	1/31/202
TBD	Los Alamos National Laboratory	031	Р	P1	031-IW	IW - Impaired Water									4,400	11/30/2013	1/31/202
TBD	Los Alamos National Laboratory	031	P	P1	031-IW	IW - Impaired Water	51931 1 0	Adjusted Gross Alpha	<=	15	Maximum	pCi/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/202
TBD	Los Alamos National Laboratory	031	P	P1	031-IW	IW - Impaired Water	01040 1 0	Copper, dissolved [as Cu]	<=		Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/202
TBD	Los Alamos National Laboratory	031	P	P1	031-IW	IW - Impaired Water	71900 1 0	Mercury, total [as Hg]	<=	0.77	Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/202
100	2007 Harries Hedional Easterney	051			031-100	iw - impaired water	39516 1 0	Polychlorinated biphenyls [PCBs]	<=	0.2	Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	
TBD	Los Alamos National Laboratory	032	Р	P1	032-IW	IW - Impaired Water	*****									, ,	-,52,202
TBD	Los Alamos National Laboratory	032	P	P1		IW - Impaired Water	01104 1 0	Aluminum, total recoverable [as Al]	<=	1010	Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/202
TBD	Los Alamos National Laboratory	032	P	P1	200000000000000000000000000000000000000	IW - Impaired Water	01040 1 0	Copper, dissolved [as Cu]	<=		Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
TBD	Los Alamos National Laboratory	032	P	P1		IW - Impaired Water	39516 1 0	Polychlorinated biphenyls [PCBs]	<=	0.2	Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
IN-THA					052 111	impanca water	00010 1 0	Temperature, water deg. centigrade	<=	24	Maximum	deg C	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
TBD	Los Alamos National Laboratory	036	Р	P1	036-IW	IW - Impaired Water	0110110										
TBD	Los Alamos National Laboratory	036	Р	P1		IW - Impaired Water	01104 1 0	Aluminum, total recoverable [as Al]	<=	1010	Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
TBD	Los Alamos National Laboratory	036	Р	P1		IW - Impaired Water	01040 1 0	Copper, dissolved [as Cu]	<=	7	Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
TBD	Los Alamos National Laboratory	036	Р	P1		IW - Impaired Water		Polychlorinated biphenyls [PCBs]	<=	0.2	Maximum	ug/L	1/YR	Gr		11/30/2019	1/31/2020
	•				050111	impaned water	00010 1 0	Temperature, water deg. centigrade	<=	24	Maximum	deg C	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
TBD	Los Alamos National Laboratory	039	Р	P1	039-IW	IW - Impaired Water	044044	2.1									-,,
TBD	Los Alamos National Laboratory	039	P	P1		IW - Impaired Water	01104 1 0	Aluminum, total recoverable [as Al]	<=	1010	Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
TBD	Los Alamos National Laboratory	039	P	P1		IW - Impaired Water	01040 1 0	Copper, dissolved [as Cu]	<=	7	Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
	Los Alamos National Laboratory	039	Р	P1		IW - Impaired Water		Polychlorinated biphenyls [PCBs]	<=		Maximum	ug/L	1/YR	Gr		11/30/2019	1/31/2020
DETAILS	**************************************				035 111	in panea vater	00010 1 0	Temperature, water deg. centigrade	<=	24	Maximum	deg C	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
TBD	Los Alamos National Laboratory	042	Р	P1	042-IW	IW - Impaired Water	0110110										
TBD	Los Alamos National Laboratory	042	Р	P1		IW - Impaired Water		Aluminum, total recoverable [as Al]	<=		Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
TBD	Los Alamos National Laboratory	042	Р	P1		IW - Impaired Water	01040 1 0	Copper, dissolved [as Cu]	<=		Maximum	ug/L	1/YR	Gr		11/30/2019	1/31/2020
TBD	Los Alamos National Laboratory	042	Р	P1		W - Impaired Water		Polychlorinated biphenyls [PCBs]	<=	0.2	Maximum	ug/L	1/YR	Gr		11/30/2019	1/31/2020
							00010 1 0	Temperature, water deg. centigrade	<=	24 [Maximum	deg C	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
						D1 - Asphalt Paving and Roofing Materials and											
ГBD	Los Alamos National Laboratory	043	D	D1	043-D1	Lubricant Manufacturing	00530 1 0	Calling Annual Control									
						O1 - Asphalt Paving and Roofing Materials and	00530 1 0	Solids, total suspended	<=	100 N	Maximum	mg/L	1/60	Gr	4/1/2019	5/31/2019	7/31/2019
гво	Los Alamos National Laboratory	043	D	D1		ubricant Manufacturing	0052010	C-lide A-A-I									
						O1 - Asphalt Paving and Roofing Materials and	00330 1 0	Solids, total suspended	<=	100 N	Maximum	mg/L	1/60	Gr	6/1/2019	7/31/2019	9/30/2019
rBD	Los Alamos National Laboratory	043	D	D1		ubricant Manufacturing	00530 1 0	Callet And I									
				1		01 - Asphalt Paving and Roofing Materials and	00330 1 0	Solids, total suspended	<=	100 N	/laximum	mg/L	1/60	Gr	8/1/2019	9/30/2019	11/30/2019
ГBD	Los Alamos National Laboratory	043	D	D1		ubricant Manufacturing	00530 1 0	Colido tetal accessed a									
						D - Asphalt Paving and Roofing Materials and	0033010	Solids, total suspended	<=	100 N	/laximum	mg/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
TBD	Los Alamos National Laboratory	043	D	D1		ubricant Manufacturing	0055610	Oil & Grease									
						D - Asphalt Paving and Roofing Materials and	0033010	on & Grease	<=	10 3	0-Day Average	mg/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
rbD	Los Alamos National Laboratory	043	D	D1		ubricant Manufacturing	0055610	Dil & Grease									
						D - Asphalt Paving and Roofing Materials and	0033010	on & Grease	<=	15 D	aily Maximum	mg/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
rBD	Los Alamos National Laboratory	043	D	D1	043-1D L	ubricant Manufacturing	0040010	SII.									
						D - Asphalt Paving and Roofing Materials and	0040010	DH .	>=	6 N	finimum	SU	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
BD	Los Alamos National Laboratory	043	D	D1		ubricant Manufacturing	0040010	NI									
						D - Asphalt Paving and Roofing Materials and	0040010	DH	<=	9 N	laximum	SU	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
BD	Los Alamos National Laboratory	043	D	D1		ubricant Manufacturing	00530 1 0	olide total succession									- Allen and Clark Darley
						D - Asphalt Paving and Roofing Materials and	00330 1 0 3	olids, total suspended	<=	15 30	D-Day Average	mg/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
BD	Los Alamos National Laboratory	043	D	D1		ubricant Manufacturing	00530 1 0	olids, total suspended									
BD	Los Alamos National Laboratory	043	D	D1		N - Impaired Water		djusted Gross Alpha	<=		aily Maximum	mg/L	1/YR	Gr			1/31/2020
							DADDIIO P	redancea Gross Wibug	<=	15 M	laximum	pCi/L	1/YR	Gr	4/1/2019		1/31/2020

					Proposed			ELG, Modifie the NM Water	ed Benchma Quality Star	rk, and Imp Idards (20.	paired Waters Lim 6.4.900 NMAC [No	its per M ew Mexic	SGP Section	n 9.6.2	and Codel)		
Permit ID	Facility	Permitted Feature	Sector(s)	Subsector	Consolidated Discharge # (Limit Set)	Discharge Description	Parameter Code		Symbol	Quality Value	Limit Type	Units	Freq. of	Smpl.		Monitoring Period End Date	DMR Due
TBD	Los Alamos National Laboratory	043	D	D1	043-IW	IW - Impaired Water	01040 1 0	Copper, dissolved [as Cu]	<=	11	Maximum		<u> </u>				Date
TBD	Los Alamos National Laboratory	043	D	D1	043-IW	IW - Impaired Water	39516 1 0	Polychlorinated biphenyls [PCBs]	<=		Maximum	ug/L ug/L	1/YR 1/YR	Gr	4/1/2019	11/30/2019	1/31/202
TBD	Los Alamos National Laboratory	043	D	D1	043-IW	IW - Impaired Water	71900 1 0	Mercury, total [as Hg]	<=		Maximum	ug/L	1/YR	Gr Gr	4/1/2019	11/30/2019	
										0.77	Widkilliam	ug/L	1/11	Gr	4/1/2019	11/30/2019	1/31/202
TBD	Los Alamos National Laboratory	074	Α	A4	074-A4	A4 - Hardwood Dimension and Flooring Mills	81017 1 0	Chemical Oxygen Demand [COD]	<=	120	Maximum	mg/L	1/60	- C"	1/1/2010	= 150 15000	
TBD	Los Alamos National Laboratory	074	Α	A4	074-A4	A4 - Hardwood Dimension and Flooring Mills	00530 1 0	Solids, total suspended	<=		Maximum	mg/L	1/60	Gr	4/1/2019	5/31/2019	
TBD	Los Alamos National Laboratory	074	Α	A4	074-A4	A4 - Hardwood Dimension and Flooring Mills	81017 1 0	Chemical Oxygen Demand [COD]	<=		Maximum	-	1/60	Gr	4/1/2019	5/31/2019	
TBD	Los Alamos National Laboratory	074	Α	A4	074-A4	A4 - Hardwood Dimension and Flooring Mills	00530 1 0	Solids, total suspended	\ <=		Maximum	mg/L	1/60	Gr	6/1/2019	7/31/2019	
TBD	Los Alamos National Laboratory	074	A	A4	074-A4	A4 - Hardwood Dimension and Flooring Mills	81017 1 0	Chemical Oxygen Demand [COD]	\ \{=		Maximum	mg/L		Gr	6/1/2019	7/31/2019	
TBD	Los Alamos National Laboratory	074	Α	A4		A4 - Hardwood Dimension and Flooring Mills	00530 1 0	Solids, total suspended	<=		Maximum	mg/L	1/60	Gr	8/1/2019	9/30/2019	
TBD	Los Alamos National Laboratory	074	Α	A4		A4 - Hardwood Dimension and Flooring Mills	81017 1 0	Chemical Oxygen Demand [COD]	=		Maximum	mg/L	1/60 1/60	Gr	8/1/2019	9/30/2019	11/30/201
TBD	Los Alamos National Laboratory	074	Α	A4	074-A4	A4 - Hardwood Dimension and Flooring Mills	00530 1 0	Solids, total suspended	<=	137771-00	Maximum	mg/L		Gr	10/1/2019	11/30/2019	1/31/2020
TBD:	Los Alamos National Laboratory	074	Α	A4	074-IW	IW - Impaired Water		Aluminum, total recoverable [as Al]	<=		Maximum	mg/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
TBD	Los Alamos National Laboratory	074	Α	A4	074-IW	IW - Impaired Water	01040 1 0	Copper, dissolved (as Cul	<=		Maximum	ug/L	1/YR 1/YR	Gr	4/1/2019	11/30/2019	
ГBD	Los Alamos National Laboratory	074	Α	A4	074-IW	IW - Impaired Water	39516 1 0	Polychlorinated biphenyls [PCBs]	<=		Maximum	ug/L		Gr	4/1/2019	11/30/2019	1/31/2020
ГBD	Los Alamos National Laboratory	074	Α	A4	074-IW	IW - Impaired Water	00010 1 0	Temperature, water deg. centigrade	<=		Maximum	ug/L deg C	1/YR 1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
	e)									24	Widamiiuiii	deg C	1/1K	Gr	4/1/2019	11/30/2019	1/31/2020
TBD	Los Alamos National Laboratory	075	Р	P1	075-IW	IW - Impaired Water	01104 1 0	Aluminum, total recoverable [as Al]	<=	1010	Maximum	ug/L	1 ///	C-	1/4/0040		CERTIFICATION OF THE PARTY OF T
TBD .	Los Alamos National Laboratory	075	Р	P1	075-IW	IW - Impaired Water	01040 1 0	Copper, dissolved [as Cu]	<=		Maximum	- 0,	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
TBD .	Los Alamos National Laboratory	075	Р	P1		IW - Impaired Water	39516 1 0	Polychlorinated biphenyls [PCBs]	\ <u>-</u>		Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
TBD	Los Alamos National Laboratory	075	Р	P1	075-IW	IW - Impaired Water		Temperature, water deg. centigrade	<=		Maximum	ug/L deg C	1/YR 1/YR	Gr Gr	4/1/2019 4/1/2019	11/30/2019	1/31/2020

ENCLOSURE 4

Threatened and Endangered Species Protection Concurrence Letters from the United States Department of Interior, Fish and Wildlife Service

EPC-DO: 18-358

LA-UR-18-29182

Date:	OCT 0 1 2018



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

EPC-DO: 18-358 Page 1 of 10 LA-UR-18-29182

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

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 #2-22-98-1-336. If we can be of further assistance, please contact Carol Torrez of my staff at (505) 346-2525, ext. 115.

Sincerely,

Jennifer Fowler-Props

Field Supervisor

cc:

Teralene Foxx, Project Manager, Ecology Group, Los Alamos National Laboratory, P.O. Box 1663, Mail Stop M887, Los Alamos, New Mexico 87545 Elizabeth Withers, U.S. Department of Energy, Los Alamos Area Office, 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.

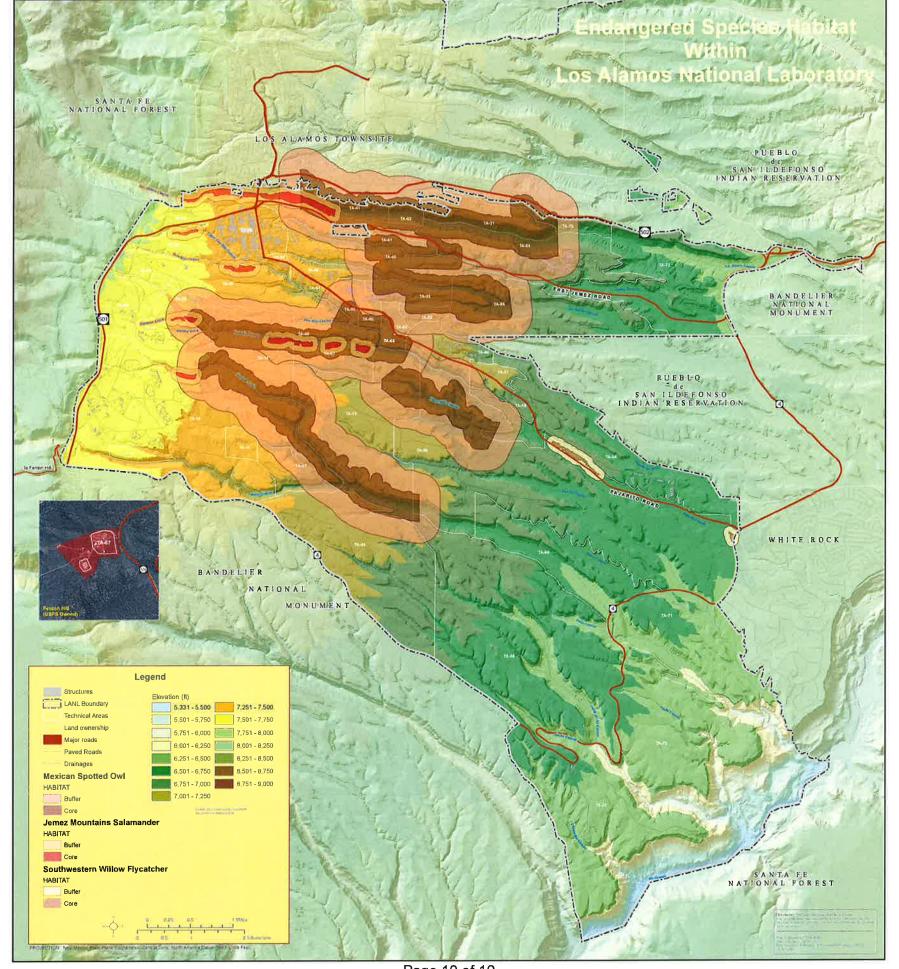
Thank you for your concern for endangered species and New Mexico's wildlife habitats. If you have any questions, please contact Eric Hein of my staff at the letterhead address or at (505) 761-4735.

Sincerely,

for Wally Murphy Field Supervisor

cc:

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





U.S. ENVIRONMENTAL PROTECTION AGENCY (EPA) NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) EPA's NPDES EREPORTING HELP DESK



Triad National Security LLC **ATTN: Enrique Torres** PO Box 1663, MS K490 Los Alamos, NM 87545

Facility: Los Alamos National Laboratory PO Box 1663 Los Alamos, NM 87545

NPDES ID: NMR050013

Dear Enrique Torres:

This letter acknowledges that you have submitted a complete Multi Sector General Permit (MSGP) Notice of Intent (NOI) Modification form. It has been processed and the information you provided has been updated in EPA's database.

If you have other questions concerning the stormwater program, please contact EPA Region 6:

Name: Nasim Jahan Phone: (214) 665-7522

Email: Jahan.Nasim@epa.gov

If you have any questions regarding this letter, please call the EPA NPDES eReporting Help Desk at 1-877-227-8965 (toll free) or send an email to NPDESeReporting@epa.gov.

EPA NPDES eReporting Help Desk Operated by Avanti Corporation 1200 Pennsylvania Ave., NW Mail Code: 4203M Washington, DC 20460 1-877-227-8965



Environmental Protection and Compliance

Los Alamos National Laboratory PO Box 1663, K491 Los Alamos, NM 87545 (505) 667-2211

Date: JUN 1 1 2019

Symbol: EPC-DO: 19-191

LA-UR: 19-25199

Stormwater Notice Processing Center William Jefferson Clinton East Building – Room 7420 ATTN: 2015 MSGP Signature Agreement U.S. Environmental Protection Agency 1201 Constitution Avenue, NW Washington, DC 20004

Subject: National Pollutant Discharge Elimination System (NPDES) Permit Tracking No.

NMR050013, Multi-Sector General Permit (MSGP) Change Notice of Intent

(Change NOI) Reporting Pursuant to Part 7.4

To Whom It May Concern:

This letter serves to submit Change NOI information to modify outfalls and monitoring requirements related to MSGP Permit Tracking No. NMR050013 for Triad National Security, LLC (Triad) as the operator for Los Alamos National Laboratory pursuant to Part 7.4 of the MSGP.

Environmental Protection Agency's (EPA's) Electronic Reporting Rule requires that NOIs be submitted using the NeT-MSGP program service on the EPA Central Data Exchange system. However, due to system limitations previously identified by Triad and verified with EPA Region 6 personnel, a complete and accurate NOI could not be created in NeT-MSGP. Therefore, change NOI information cannot be submitted using NeT-MSGP (Attachment 1). As a result, Triad was granted a waiver to submit paper NOI forms from Nasim Jahan (EPA Region 6) on September 26, 2018 (Attachment 1).

Part 6.2.4.1 of the MSGP indicates no monitoring is required when a waterbody's impairment is related to a non-pollutant. EPA Region 6 has concurred that temperature is a non-pollutant, therefore monitoring for temperature in stormwater as an impairment is not required (Attachment 2).

To accurately update the NOI and to facilitate complete and accurate information in NetDMR, Triad is submitting a paper NOI on EPA Form 3510-6 (Attachment 3) and an additional table defining



EPC-DO: 19-191

Stormwater Notice Processing Center

modifications to the monitored outfall-specific Sector and impaired waters limits sets (Attachment 4) currently populated in the NetDMR system.

Your assistance is greatly appreciated as Triad is committed to maintaining compliance with the MSGP requirements. If you have any questions, please contact Terrill Lemke (505) 665-2397 or Leslie Dale (505) 606-2371.

Very Truly Yours,

Enrique Torres Division Leader

Environmental Protection & Compliance Division

ET/TWL/LJD:jdm

Attachment(s): Attachment 1 EPA Region 6 Approval for Triad National Security, LLC to Submit a Paper NOI; EPA Guidance to Submit Change NOI Information via EPA Form

Attachment 2 EPA Region 6 Concurrence Regarding Temperature as a Non-

Pollutant

Attachment 3 Change NOI for Stormwater Discharges Associated with Industrial

Activity under the NPDES Multi-Sector General Permit

Attachment 4 NetDMR Monitoring Requirements for Los Alamos National Laboratory, Operated by Triad National Security, LLC, MSGP ID NMR050013

Copy: Nasim Jahan, EPA Region 6, jahan.nasim@epa.gov, (E-File)

Helen Nguyen, EPA Region 6, nguyen.helen@epa.gov, (E-File)

Sarah Holcomb, NMED/SWQB, sarah.holcomb@state.nm.us, (E-File)

Karen E. Armijo, NA-LA, karen.armijo@nnsa.doe.gov, (E-File)

Michael W. Hazen, ALDESHQSS, mhazen@lanl.gov, (E-File)

William R. Mairson, ALDESHQSS, wrmairson@lanl.gov, (E-File)

Timothy A. Dolan, GC-ESH, tdolan@lanl.gov, (E-File)

Taunia S. Van Valkenburg, EPC-CP, tauniav@lanl.gov, (E-File)

Terrill. W. Lemke, EPC-CP, tlemke@lanl.gov, (E-File)

Holly L. Wheeler, EPC-CP, hbenson@lanl.gov, (E-File)

Leslie J. Dale, EPC-CP, leslie@lanl.gov, (E-File)

adesh-records@lanl.gov, (E-File)

lasomailbox@nnsa.doe.gov, (E-file)

epccorrespondence@lanl.gov, (E-File)



Attachment 1

EPA Region 6 Approval for Triad National Security, LLC to Submit a Paper NOI; EPA Guidance to Submit Change NOI Information via EPA Form 3510-6

EPC-DO: 19-191

LA-UR-19-25199

JUN 1 1 2019	
	JUN 1 1 2019

Dale, Leslie J

From:

Lemke, Terrill W

Sent:

Wednesday, September 26, 2018 4:16 PM

To:

Dolan, Timothy Aloysius; Dale, Leslie J; Wheeler, Holly Lynn

Subject:

FW: Request for LANL Paper MSGP NOI Waiver

Follow Up Flag:

Follow up

Flag Status:

Flagged

FY

Terrill Lemke, PE, CPESC, CISEC Environmental Compliance Programs Los Alamos National Laboratory Los Alamos, NM

Office: 505-665-2397 Cell: 505-699-0725

From: Jahan, Nasim < Jahan. Nasim@epa.gov>
Sent: Wednesday, September 26, 2018 2:43 PM

To: Lemke, Terrill W <tlemke@lanl.gov>

Cc: Emily Gorman <emily@avanticorporation.com>
Subject: RE: Request for LANL Paper MSGP NOI Waiver

Dear Mr. Terrill:

EPA, Region 6 is approving your request for paper submission as the facility is unable to submit the NOI online.. Please mail the hardcopies to the following address:

For Regular U.S. Mail Delivery:

Stormwater Notice Processing Center
Mail Code 4203M, ATTN: 2015 MSGP Signature Agreement
U.S. EPA
1200 Pennsylvania Avenue, NW
Washington, DC 20460

For Overnight/Express U.S. Mail Delivery:

Stormwater Notice Processing Center
William Jefferson Clinton East Building – Room 7420
ATTN: 2015 MSGP Signature Agreement
U.S. EPA
1201 Constitution Avenue, NW
Washington, DC 20004

Thank you,

Nasim Jahan

EPC-DO: 19-191
Environmental Engineer
Permits and Technical Section (6WQ-PP)
EPA Region 6 Water Quality Protection Division
1445 Ross Avenue, Ste. 1200
Dallas, TX 75202-2733

Phone: 214.665.7522 Fax: 214.665.2191

From: Lemke, Terrill W [mailto:tlemke@lanl.gov]
Sent: Wednesday, September 26, 2018 3:30 PM
To: Jahan, Nasim < Jahan. Nasim@epa.gov>

Cc: Dale, Leslie J < leslie@lanl.gov>; Dolan, Timothy Aloysius < tdolan@lanl.gov>

Subject: Request for LANL Paper MSGP NOI Waiver

Nasim,

Thank you for speaking with us today. We've had the opportunity to review the changes implemented in the updated NeT-MSGP system that rolled out earlier this year, and have identified the following issues as problematic for submitting an accurate and complete electronic NOI.

A new NOI must be submitted for Triad National Security, LLC (Triad) as a new operator for Los Alamos National Laboratory (LANL) pursuant to Part B.12.C of the 2015 MSGP. Triad is replacing Los Alamos National Security, LLC (LANS) as operator of LANL effective November 1, 2018. Per the schedule in Table 1-2 of the MSGP, Triad's NOI must be submitted by October 2, 2018.

EPA's Electronic Reporting Rule requires that NOIs be submitted using the NeT-MSGP program service on the EPA Central Data Exchange system. However, due to the following system limitations previously identified by LANS and coordinated by EPA Region 6 personnel, a complete and accurate NOI cannot be submitted using NeT-MSGP.

- Part 9.6.2 of the 2015 MSGP, Permit Conditions for the State of New Mexico, requires that benchmark values be modified to reflect New Mexico water quality standards for facilities in New Mexico, based on benchmark values from the Standards for Interstate and Intrastate Surface Waters (20.6.4.900 New Mexico Administrative Code [NMAC]). These modified benchmark values are not recognized by NeT-MSGP and populated in NetDMR.
- 2. The 2018-2020 State of New Mexico Clean Water Act §303(d)/ §305(b) Integrated Report requires monitoring of impaired waters pollutants not available for selection in NeT-MSGP (e.g., Adjusted Gross Alpha and Temperature).
- 3. 20.6.4.900 NMAC requires monitoring of certain modified benchmark and impaired waters metals pollutants as dissolved species, which are not available for selection in NeT-MSGP. Currently, only total metals species may be assigned in NeT-MSGP.
- 4. Due to extended frozen conditions during the winter and a semi-arid climate, Triad will implement an alternative monitoring period of four (4) two-month monitoring quarters for benchmark values as identified below, in accordance with Part 6.1.6 of the 2015 MSGP. This alternate monitoring schedule does not coincide with the default four (4) three-month quarters listed in Part 6.1.7 of the 2015 MSGP and NeT-MSGP does not allow input of an alternate monitoring schedule. Accordingly, annual impaired waters and Effluent Limitation Guideline monitoring will be conducted between April 1 and November 30 of each year.

April 1 through May 31
June 1 through July 31
August 1 through September 30

October 1 through November 30

These system limitations directly result in inaccurate pollutants, limits, monitoring periods and DMR due dates being populated in NetDMR.

EPA Region 6 has recognized the challenges that the outgoing operator (LANS) has identified with NeT-MSGP related to compliance with Part 9.6.2 of the 2015 MSGP, Permit Conditions for the State of New Mexico, and has been instrumental in helping LANS to resolve these issues. Therefore, per your verbal direction, we are requesting a waiver for Triad to submit a paper NOI in lieu of submitting an inaccurate and incomplete NOI in NeT-MSGP. Please advise at your earliest convenience if you concur with our submittal of a paper NOI, as we must submit by Oct 2.

We appreciate your assistance in helping us maintain compliance. If you have any questions, please contact me at (505) 665-2397.

Terrill

Terrill Lemke, PE, CPESC, CISEC Environmental Compliance Programs Los Alamos National Laboratory Los Alamos, NM Office: 505-665-2397

Cell: 505-699-0725

From:

Emily Hack (Avanti) (EPA NeT Support)

Cc: Subject: Jahan Nasim; Wheeler, Holly Lynn; Dale, Leslie J; Hazen, Michael W NMR050013 - Triad National Security LLC - MSGP Notice of Intent

Date:

Friday, October 26, 2018 11:13:07 AM

Attachments:

NMR050013 Triad Los Alamos National Laboratory 2015 MSGP NOI Acknowledgement.pdf

Triad National Security LLC Los Alamos National Laboratory 10-02-2018.pdf

Fire Lightline And Local Countries States and

You are CC'ed on this support request (10066). Reply to this email to add a comment to the request.

Emily Hack (Avanti) (EPA NeT Support)

Day 25, 13012 EDT

Good afternoon,

The paper Notice of Intent (NOI) submitted under EPA's Multi-Sector General Permit (MSGP) for Los Alamos National Laboratory under Triad National Security LLC has been processed by the EPA NPDES eReporting Help Desk. The facility was assigned NPDES ID NMR050013. Please, retain the attached acknowledgement letter for your records.

Due to the unique nature of the outfall sequence and monitoring requirements, EPA instructed that we enter the NOI directly into the back-end system. Therefore, the NOI will not be generated in the NeT MSGP program at this time. Attached is the NOI that we received. As I'm sure you are aware, for any changes to the NOI in the future, please submit them via paper as well.

Please, let me know if you have any questions.

Sincerely,

Emily Hack
NPDES eReporting Help Desk
Staffed by Avanti Corporation
1-877-227-8965
NPDESeReporting@epa.gov

Attachment 2

EPA Region 6 Concurrence Regarding Temperature as a Non-Pollutant

EPC-DO: 19-191

LA-UR-19-25199

Date:	JUN 1 1 2019	

Dale, Leslie J

From: Jahan, Nasim < Jahan.Nasim@epa.gov>
Sent: Wednesday, March 27, 2019 10:40 AM

To: Dale, Leslie J

Cc: Lemke, Terrill W; Dolan, Timothy Aloysius; Wheeler, Holly Lynn; Holcomb, Sarah,

NMENV

Subject: RE: Temperature Monitoring for MSGP

Dear Leslie:

I concur your decision based on your reference. Please let me know if you have any other concerns..

Thank you,

Nasim..

From: Dale, Leslie J < leslie@lanl.gov>

Sent: Wednesday, March 27, 2019 11:16 AM To: Jahan, Nasim < Jahan. Nasim@epa.gov>

Cc: Lemke, Terrill W <tlemke@lanl.gov>; Dolan, Timothy Aloysius <tdolan@lanl.gov>; Wheeler, Holly Lynn

<hbenson@lanl.gov>; Holcomb, Sarah, NMENV <sarah.holcomb@state.nm.us>

Subject: Temperature Monitoring for MSGP

Good Morning Nasim,

We (Los Alamos National Laboratory, NMR0050013) have a question regarding whether temperature is considered a pollutant with respect to impaired waters monitoring under the MSGP. Part 6.2.4.1 of the MSGP, paragraph 2 states "No monitoring is required when a waterbody's biological communities are impaired but no pollutant, including indicator or surrogate pollutants, is specified as causing the impaired, or when a waterbody's impairment is related to hydrologic modifications, impaired hydrology, or other non-pollutant."

For context, the 2018-2020 State of New Mexico CWA Section 303(d)/Section 305(b) Integrated Report listed temperature as an impairment to Sandia Canyon (Sigma Canyon to NPDES outfall 001, AU ID: NM-9000.A_047). Upon release of the revised Integrated Report, we included temperature as an impairment in our NOI submitted under Triad National Security, LLC (the new operator of Los Alamos National Laboratory) effective November 1, 2018.

We sought clarification from the New Mexico Environment Department – Surface Water Quality Bureau on March 25, 2019. Upon visiting the language in Part 6.2.4.1 of the MSGP, Sarah Holcomb provided guidance that temperature is a non-pollutant.

According to 40 CFR 122.2, Pollutant means dredged spoil, solid waste, incinerator residue, filter backwash, sewage, garbage, sewage sludge, munitions, chemical wastes, biological materials, radioactive materials (except those regulated under the Atomic Energy Act of 1954, as amended (42 U.S.C. 2011 et seq.)), heat, wrecked or discarded equipment, rock, sand, cellar dirt and industrial, municipal, and agricultural waste discharged into water. It does not mean: (a) Sewage from vessels; or

(b) Water, gas, or other material which is injected into a well to facilitate production of oil or gas, or water derived in association with oil and gas production and disposed of in a well, if the well used either to facilitate production or for

disposal purposes is approved by authority of the State in which the well is located, and if the State determines that the injection or disposal will not result in the degradation of ground or surface water resources.

We interpret "heat" to mean heat generated by MSGP industrial activities and not ambient temperature associated with stormwater runoff from MSGP facilities, and therefore believe that monitoring for temperature in stormwater as an impairment is not required.

Please let us know whether you concur, as we are preparing to modify our NOI to remove temperature from our monitoring requirements for the 2019 monitoring season.

Thank you,

Leslie Dale, CHMM

Environmental Compliance Programs (EPC-CP)
Los Alamos National Laboratory
PO Box 1663, MS K490
Los Alamos, NM 87545
(505) 606-2371

Attachment 3

Change NOI for Stormwater Discharges Associated with Industrial Activity under the NPDES Multi-Sector General Permit

EPC-DO: 19-191

LA-UR-19-25199

Date:	JUN 1 1 2019	

NPDES FORM 3510-6



United States Environmental Protection Agency Washington, DC 20460

NOTICE OF INTENT (NOI) FOR STORMWATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY UNDER THE NPDES MULTI-SECTOR GENERAL PERMIT

Form Approved, OMB No. 2040-0004

Submission of this Notice of Intent (NOI) constitutes notice that the operator identified in Section C of this form requests authorization to discharge pursuant to the NPDES Stormwater Multi-Sector General Permit (MSGP) permit number identified in Section B of this form. Submission of this NOI also constitutes notice that the operator identified in Section C of this form meets the eligibility conditions of Part 1.1 of the MSGP for the facility identified in Section D of this form. To obtain authorization, you must submit a complete and accurate NOI form. Discharges are not authorized if your NOI is incomplete or inaccurate or if you were never eliaible for permit coverage. Refer to the instructions at the end of this form to complete your NOI.

never eligible for permit coverage. Refer to the instructions of the end of this form to complete your NOI.	
A. Approval to Use Paper NOI Form	
1, Have you been granted a waiver from electronic reporting from the EPA Regional Office*? 🔽 YES 🔲 NO	
If yes, check which waiver you have been granted, the name of the EPA Regional Office staff person who granted the waiver, and the date of appro	ıval:
Waiver granted: The owner/operator's headquarters is physically located in a geographic area (i.e., ZIP code or census tract) that is identias under-served for broadband Internet access in the most recent report from the Federal Communications Commission.	
The owner/operator has issues regarding available computer access or computer capability.	
Name of EPA staff person that granted the waiver: Nasim Jahan	
Date approval obtained: $09/26/126/12018$ Note: This form is submitting Change NOI information. Modified items/sections are highlighted.	
 Note: You are required to obtain approval from the applicable EPA Regional Office prior to using this paper NOI form. If you have not obtained a waiver must file this form electronically using the NPDES eReporting Tool (NeT) at http://water.epa.gov/polwaste/npdes/stormwater/Stormwater-eNOI-System-fePAs-MultiSector-General-Permit.cfm 	, you or-
B. Permit Information NPDES ID (EPA Use Only): NMR 0501	1 3
(see Appendix C of the MSGP for the list of eligible master permit numbers)	
2. Are you a new discharger or a new source as defined in Appendix A? \square YES \square NO (If yes, skip to Part C of this form),	
3. If you are not a new discharger or a new source, have stormwater discharges from your facility been covered previously under an NPDES permit?	
If yes, provide the NPDES ID if you had coverage under EPA's 2008 MSGP or the NPDES ID if you had coverage under an EPA individual permit:	Ш
C. Facility Operator Information	
1. Operator Information:	
Operator Name:	
Mailing Address:	
Street:	
City: State: ZIP Code:	
County or Similar Government Subdivision;	
Phone: Ext.	
E-mail:	
2. Operator Point of Contact Information:	
First Name, Middle Initial, Last Name:	
Title:	
3, NOI Preparer Information (Complete if NOI was prepared by someone other than the certifier):	
First Name, Middle Initial, Last Name:	
Organization:	
Phone: Ext.	
E-mail:	

D. Facility Information
1. Facility Name:
2, Facility Address;
Street/Location:
City: State: ZIP Code:
County or Similar Government Subdivision;
3. Latitude/Longitude for the facility:
Latitude:° N (decimal degrees) Longitude;, W (decimal degrees)
Latitude/Longitude Data Source: Map GPS Other
If you used a USGS topographic map, what was the scale?
Horizontal Reference Datum: NAD 27 NAD 83 WG\$ 84
4, Is your facility located on Indian Country lands?
If yes, provide the name of the Indian tribe associated with the area of Indian country (including name of Indian reservation, if applicable)
5, Are you requesting coverage under this NOI as a "federal operator" as defined in Appendix A? 🔲 YES 🔲 NO
6. What is the ownership type of the facility? Government Privately Owned Facility Municipality County Government Cou
☐ Corporation ☐ State Government ☐ Tribal Government ☐ School District
District Mixed Ownership (e.g., Municipal or Water Public/Private)
7. Estimated area of industrial activity at your facility exposed to stormwater: 51 (to the nearest quarter acre)
8, Sector-Specific Information
Identify the 4-digit Standard Industrial Classification (SIC) code or 2-letter Activity Code that best represents the products produced or services rendered for which your facility is primarily engaged, as defined in the MSGP, and the applicable sector and subsector of your primary industrial activity (See Appendix D):
Primary SIC Code: OR Primary Activity Code:
Sector: Subsector: Note: REMOVE the following Sector/Subsector from permit coverage.
Identify the applicable sector(s) and subsector(s) of any co-located industrial activity for which you are requesting permit coverage;
Sector: F Subsector: F Subsector: Subsector: Subsector: Subsector:
Sector: Subsector: Sub
If you are a Sector S (Air Transportation) facility, do you anticipate using more than 100,000 gallons of pure glycol in glycol-based deicing fluids and/or 100 tons or more of urea on an average annual basis?
If you are a Sector G (Metal Mining) facility, do you have discharges from waste rock and overburden piles? 🔲 YES 🔲 NO
Check the type of ore you mine at your facility: Tungsten Ore Nickel Ore
☐ Mercury Ore ☐ Iron Ore ☐ Platinum Ore ☐ Titanium Ore ☐ Vanadium Ore ☐ Molybdenum ☐ Uranium, Radium, and/or Vanadium Ore
9, Is your facility presently inactive and unstaffed?* 🔲 YES 📋 NO
* Note that if your facility becomes inactive and unstaffed during the permit term, you must submit an NOI modification to reflect the change.
E. Discharge Information
1, By indicating "Yes" below, I confirm that I understand that the MSGP only authorizes the allowable stormwater discharges in Part 1,1,2 and the allowable non-stormwater discharges listed in Part 1,1,3. 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 1,1,2 and 1,1,3 will be discharged, they must be covered under another NPDES permit. YES
2, Federal Effluent Limitation Guidelines
Are you requesting permit coverage for any stormwater discharges subject to effluent limitation guidelines? 🔲 YES 🔲 NO

40 CFR Part/Subpart	Eligible Discharges	Affected MSGP Sector	New Source Date	Check if Applicable
Part 411, Subpart C	Runoff from material storage piles at cement manufacturing facilities	E	2/20/1974	
Part 418 Subpart A	Runoff from phosphate fertilizer manufacturing facilities that comes into contact with any raw materials, finished product, by-products or waste products (SIC 2874)	С	4/8/1974	п
Part 423	Coal pile runoff at steam electric generating facilities	0	11/19/1982 10/8/1974 ¹	
Part 429, Subpart I	Discharges resulting from spray down or intentional wetting of logs at wet deck storage areas	A	1/26/1981	
Part 436, Subpart B, C, or D	Mine dewatering discharges at crushed stone mines, construction sand and gravel mines, or industrial sand mines	J	N/A	
Part 443, Subpart A	Runoff from asphalt emulsion facilities	D	7/28/1975	
Part 445, Subparts A & B	Runoff from hazardous waste and non-hazardous waste landfills	K, L	2/2/2000	
Part 449	Runoff containing urea from airfield pavement deicing at existing and new primary airports with 1,000 or more annual non-propeller aircraft departures	S	6/15/2012	

NSPS promulgated in 1974 were not removed via the 1982 regulation; therefore wastewaters generated by Part 423-applicable sources that were New Sources under the 1974 regulations are subject to the 1974 NSPS.

3. Receiving Waters Information: (Attach a separate list if necessary)

Liet all of the	e stormwater outfalls	For each outfall, provide the following	receiving water information:	
from your formust be ide 3-digit ID (e provide the	acility. Each outfall entified by a unique e.g., 001, 002). Also e latitude and n degrees decimal for	Provide the name of the first water of the U.S. that receives stormwater directly from the outfall and/or from the MS4 that the outfall discharges to:	If the receiving water is impaired (on the CWA 303(d) list), list the pollutants that are causing the impairment:	If a TMDL been completed for this receiving waterbody, providing the following information:
Outfall ID 002 (Sector AA, Subsector AA1) Latitude Longitude		Sandia Canyon (Sigma Canyon to NPDES outfall 001)		TMDL Name and ID:
		Remove monitored outfall 002 from permit coverage		Pollutant(s) for which there is a TMDL:
		and NetDMR. Outfall was eliminated effective May 1, 2019.		N/A
Outfall ID	005 (Sector O, Subsector O1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	Remove 00010 Temperature, water deg.	TMDL Name and ID:
Latitude			centrigrade from list of impairments	Pollutant(s) for which there is a TMDL:
Longitude				N/A
If substantic	lly identical to other o	I utfall, list identical outfall ID:	_	I.

Outfall ID	006 (Sector O, Subsector O1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	Remove 00010 Temperature, water deg.	TMDL Name and ID: N/A
Latitude			centrigrade from list of impairments	Pollutant(s) for which there is a TMDL:
Longitude				IVA
If <mark>substantic</mark>	ally identical to other o	o <mark>utfall,</mark> list identical outfall ID: 005		
Outfall ID	009 (Sector O, Subsector O1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	Remove 00010 Temperature, water deg.	TMDL Name and ID: N/A
Latitude		-	centrigrade from list of impairments	Pollutant(s) for which there is a TMDL:
Longitude				
If substantic	ally identical to other o	utfall, list identical outfall ID:		
Outfall ID	007 (Sector O, Subsector O1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	Remove 00010 Temperature, water deg.	TMDL Name and ID:
Latitude		,	centrigrade from list of impairments	Pollutant(s) for which there is a TMDL:
Longitude				
lf <mark>substanti</mark> a	ı <mark>lly identical</mark> to other o	utfall, list identical outfall ID: 009		
Outfall ID	008 (Sector O, Subsector O1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	Remove 00010 Temperature, water deg.	TMDL Name and ID: N/A
Latitude			centrigrade from list of impairments	Pollutant(s) for which there is a TMDL:
Longitude				

Outfall ID	010 (Sector O, Subsector O1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	Remove 00010 Temperature, water deg.	TMDL Name and ID:
Latitude		,	centrigrade from list of impairments	Pollutant(s) for which there is a TMDL:
Longitude				
If <mark>substanti</mark>	ally identical to other o	utfall, list identical outfall ID: 009		
Outfall ID	012 (Sector O, Subsector O1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	Remove 00010 Temperature, water deg.	TMDL Name and ID: N/A
Latitude			centrigrade from list of impairments	Pollutant(s) for which there is a TMDL:
Longitude				
If substantic	Illy identical to other o	utfall, list identical outfall ID:		
Outfall ID	011 (Sector O, Subsector O1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	Remove 00010 Temperature, water deg.	TMDL Name and ID:
Outfall ID Latitude	(Sector O,			N/A Pollutant(s) for which there is a TMDL:
	(Sector O,	Canyon to NPDES outfall	Temperature, water deg. centrigrade from	N/A Pollutant(s) for which
Latitude Longitude	(Sector O, Subsector O1)	Canyon to NPDES outfall	Temperature, water deg. centrigrade from	N/A Pollutant(s) for which there is a TMDL:
Latitude Longitude	(Sector O, Subsector O1)	Canyon to NPDES outfall 001) utfall, list identical outfall ID: 012 Sandia Canyon (Sigma Canyon to NPDES outfall	Temperature, water deg. centrigrade from	N/A Pollutant(s) for which there is a TMDL:
Latitude Longitude If substantic	(Sector O, Subsector O1) ally identical to other or 017 (Sectors AA, F	Canyon to NPDES outfall 001) utfall, list identical outfall ID: 012 Sandia Canyon (Sigma	Temperature, water deg. centrigrade from	N/A Pollutant(s) for which there is a TMDL: N/A TMDL Name and ID:

Outfall ID	013 (Sectors AA, F Subsectors AA1, F4)	Mortandad Canyon (Within LANL)	TMDL Name and ID:
Latitude		Remove SIO 013 from permit	Pollutant(s) for which there is a TMDL:
Longitude		coverage. Site achieved No Exposure Status effective December 18, 2018.	N/A
If <mark>substant</mark>	ally identical to other o	u <mark>tfall,</mark> list identical outfall ID: 017	
Outfall ID	014 (Sectors AA, F Subsectors AA1, F4)	Mortandad Canyon (Within LANL)	TMDL Name and ID: N/A
Latitude		Remove SIO 014 from permit	Pollutant(s) for which there is a TMDL:
Longitude		coverage. Site achieved No Exposure Status effective December 18, 2018.	N/A
lf <mark>substanti</mark>	<mark>ally identical</mark> to other o	<mark>utfall,</mark> list identical outfall ID: <u>017</u>	
Ouffall ID	015 (Sectors AA, F Subsectors AA1, F4)	Mortandad Canyon (Within LANL)	TMDL Name and ID:
Latitude		Pomovio CIO 015 from novemit	Pollutant(s) for which there is a TMDL:
Longitude		Remove SIO 015 from permit coverage. Site achieved No Exposure Status effective December 18, 2018.	N/A
lf <mark>substanti</mark>	ally identical to other ou	u <mark>tfall,</mark> list identical outfall ID: 017	
	10.40	Sandia Canyon (Sigma	TMDL Name and ID:
Outfall ID	016 (Sectors AA, F Subsectors AA1, F4)	Canyon to NPDES outfall 001)	N/A
Outfall ID	(Sectors AA, F	Canyon to NPDES outfall	N/A Pollutant(s) for which there is a TMDL: N/A

Outfall ID	019 (Sectors AA, F Subsectors AA1, F4)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)		TMDL Name and ID:
Latitude		Remove SIO 019 from permit		Pollutant(s) for which there is a TMDL:
Longitude		coverage. Site achieved No Exposure Status effective December 18, 2018.		N/A
If <mark>substanti</mark> d	ally identical to other o	utfall, list identical outfall ID: 017		•
Ouffall ID	020 (Sectors AA, F Subsectors AA1, F4)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)		TMDL Name and ID: N/A
Latitude		Remove monitored outfall 020 from permit coverage and		Pollutant(s) for which there is a TMDL:
Longitude		NetDMR. Site achieved no Exposure Status effective December 18, 2018.		IN/A
lf substantic	ally identical to other or	utfall, list identical outfall ID:		
Outfall ID	022 (Sectors AA, P, Subsectors AA1, P1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	Remove 00010 Temperature, water deg.	TMDL Name and ID:
Latitude		,	centrigrade from list of impairments	Pollutant(s) for which there is a TMDL:
Longitude		Add Sector AA, Subsector AA1 to permit coverage for monitored outfall 022.		N/A
f substantic	ally identical to other or	utfall, list identical outfall ID:	···	
Outfall ID	021 (Sector AA, P, Subsector AA1, P1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	Remove 00010 Temperature, water deg.	TMDL Name and ID:
Latitude			centrigrade from list of impairments	Pollutant(s) for which there is a TMDL:
		Add Sector AA, Subsector AA1 to permit coverage for		N/A
ongitude		SIO 021.		

Outfall ID	023 (Sector AA, P, Subsector AA1, P1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	Remove 00010 Temperature, water deg. centrigrade from	TMDL Name and ID:
Latitude			list of impairments	Pollutant(s) for which there is a TMDL:
Longitude		Add Sector AA, Subsector AA1 to permit coverage for SIO 023.		N/A
lf <mark>substanti</mark> c	ally identical to other o	utfall, list identical outfall ID: 022		
Ouffall ID	024 (Sector AA, P, Subsector AA1, P1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	Remove 00010 Temperature, water deg. centrigrade from	TMDL Name and ID:
Latitude			list of impairments	Pollutant(s) for which there is a TMDL:
Longitude		Add Sector AA, Subsector AA1 to permit coverage for SIO 024.		N/A
lf <mark>substantic</mark>	ı <mark>lly identical</mark> to other o	utfall, list identical outfall ID: 022		
Outfall ID	025 (Sector AA, P, Subsector AA, P1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	Remove 00010 Temperature, water deg.	TMDL Name and ID:
Latitude			centrigrade from list of impairments	Pollutant(s) for which there is a TMDL:
Longitude		Add Sector AA, Subsector AA1 to permit coverage for SIO 025.		N/A
lf <mark>substantic</mark>	<mark>Illy identical</mark> to other ou	utfall, list identical outfall ID: 022		
Ouffall ID	026 (Sector P, Subsector P1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	Remove 00010 Temperature, water deg.	TMDL Name and ID:
Latitude			centrigrade from list of impairments	Pollutant(s) for which there is a TMDL:
Longitude				
			•	

Outfall ID	027 (Sector P, Subsector P1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	Remove 00010 Temperature, water deg. centrigrade from	TMDL Name and ID:
Latitude			list of impairments	Pollutant(s) for which there is a TMDL: N/A
Longitude				
If <mark>substanti</mark>	<mark>ally identical</mark> to other o	outfall, list identical outfall ID: 026		
Outfall ID	028 (Sector P, Subsector P1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	Remove 00010 Temperature, water deg.	TMDL Name and ID: N/A
Latitude			centrigrade from list of impairments	Pollutant(s) for which there is a TMDL:
Longitude				
lf <mark>substanti</mark> d	ally identical to other o	outfall, list identical outfall ID: 026		1100
Outfall ID	029 (Sector N, Subsector N2)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	Remove 00010 Temperature, water deg.	TMDL Name and ID:
Latitude			centrigrade from list of impairments	Pollutant(s) for which there is a TMDL:
Longitude				
lf substantic	ally identical to other o	outfall, list identical outfall ID:		•
Outfall ID	032 (Sector P,	Sandia Canyon (Sigma Canyon to NPDES outfall	Remove 00010 Temperature, water deg.	TMDL Name and ID:
Odildii 10	Subsector P1)	_ 001)		
Latitude	Subsector P1)	_ (001)	centrigrade from list of impairments	Pollutant(s) for which there is a TMDL:
	Subsector P1)	_ (001)	centrigrade from	there is a TMDL:

Ouffall ID	033 (Sector P, Subsector P1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	Remove 00010 Temperature, water deg.	TMDL Name and ID:
Latitude			centrigrade from list of impairments	Pollutant(s) for which there is a TMDL:
Longitude				
If <mark>substanti</mark>	ally identical to other	outfall, list identical outfall ID: 032	*	•
Outfall ID	034 (Sector P, Subsector P1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	Remove 00010 Temperature, water deg.	TMDL Name and ID: N/A
Latitude			centrigrade from list of impairments	Pollutant(s) for which there is a TMDL:
Longitude				
		outfall, list identical outfall ID: 032		
If <mark>substantic</mark>	ally identical to other	ourdi, list identical ourdii ID.		
If substantion	035 (Sector P, Subsector P1)	Sandia Canyon (Sigma Canyon to NPDES outfall	Remove 00010 Temperature, water deg.	TMDL Name and ID:
	035 (Sector P,	Sandia Canyon (Sigma	The second second second	N/A Pollutant(s) for which there is a TMDL:
Ouffall ID	035 (Sector P,	Sandia Canyon (Sigma Canyon to NPDES outfall	Temperature, water deg. centrigrade from	N/A Pollutant(s) for which
Outfall ID Latitude Longitude	035 (Sector P, Subsector P1)	Sandia Canyon (Sigma Canyon to NPDES outfall	Temperature, water deg. centrigrade from	N/A Pollutant(s) for which there is a TMDL:
Outfall ID Latitude Longitude	035 (Sector P, Subsector P1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001) outfall, list identical outfall ID: 032 Sandia Canyon (Sigma Canyon to NPDES outfall	Temperature, water deg. centrigrade from	N/A Pollutant(s) for which there is a TMDL:
Outfall ID Latitude Longitude	035 (Sector P, Subsector P1) ally identical to other of the control of the contr	Sandia Canyon (Sigma Canyon to NPDES outfall 001) outfall, list identical outfall ID: 032 Sandia Canyon (Sigma	Temperature, water deg. centrigrade from	N/A Pollutant(s) for which there is a TMDL: N/A TMDL Name and ID:

Outfall ID	037 (Sector P, Subsector P1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	01104 Aluminum, total recoverable [as Al]; 01040 Copper,	TMDL Name and ID:
Latitude	35.867859		dissolved [as Cu]; 39516 Polychlorinated biphenyls [PCBs]	Pollutant(s) for which there is a TMDL:
Longitude	-106.292992	Change outfall 037 from SIO to Monitored Outfall effective March 26, 2019.	Remove 00010 Temperature, water deg. centrigrade from list of impairments	N/A
If substantio	ally identical to other	outfall, list identical outfall ID:		
Outfall ID	039 (Sector P, Subsector P1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	Remove 00010 Temperature, water deg.	TMDL Name and ID: N/A
Latitude			centrigrade from list of impairments	Pollutant(s) for which there is a TMDL:
Longitude				
If substantic	ally identical to other	outfall, list identical outfall ID:		
Outfall ID	038 (Sector P, Subsector P1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)		TMDL Name and ID:
				Pollutant(s) for which
Latitude		Pamaya SIO 029 from parmit		there is a TMDL:
Latitude Longitude		Remove SIO 038 from permit coverage. Outfall was eliminated effective April 23, 2019.		
Longitude	ally identical to other	coverage. Outfall was eliminated effective April 23,		there is a TMDL:
Longitude	040 (Sector P, Subsector P1)	coverage. Outfall was eliminated effective April 23, 2019.		there is a TMDL:
Longitude If <mark>substanti</mark> a	040 (Sector P,	coverage. Outfall was eliminated effective April 23, 2019. outfall, list identical outfall ID: 039 Sandia Canyon (Sigma Canyon to NPDES outfall		there is a TMDL: N/A TMDL Name and ID:

Outfall ID	042 (Sector P, Subsector P1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	Remove 00010 Temperature, water deg.	TMDL Name and ID:
Latitude			centrigrade from list of impairments	Pollutant(s) for which there is a TMDL:
Longitude				
If substantio	ally identical to other	outfall, list identical outfall ID:	4	•
Ouffall ID	041, Sector P, Subsector P1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	Remove 00010 Temperature, water deg.	TMDL Name and ID: N/A
Latitude			centrigrade from list of impairments	Pollutant(s) for which there is a TMDL:
Longitude				
If <mark>substantic</mark>	ally identical to other o	outfall, list identical outfall ID: 042		
Outfall ID	074 (Sector A, Subsector A4)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	Remove 00010 Temperature, water deg.	TMDL Name and ID:
Latitude		1	centrigrade from list of impairments	Pollutant(s) for which there is a TMDL:
		4		I N/A
Longitude				N/A
	Illy identical to other o	outfall, list identical outfall ID:		N/A
	073 (Sector A, Subsector A4)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	Remove 00010 Temperature, water deg.	TMDL Name and ID:
lf substantic Outfall ID	073 (Sector A,	Sandia Canyon (Sigma Canyon to NPDES outfall	Temperature,	TMDL Name and ID: N/A Pollutant(s) for which there is a TMDL:
If substantic	073 (Sector A,	Sandia Canyon (Sigma Canyon to NPDES outfall	Temperature, water deg. centrigrade from	TMDL Name and ID: N/A Pollutant(s) for which

Outfall ID	075 (Sector P, Subsector P1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	Remove 00010 Temperature, water deg.	TMDL Name and ID:
Latitude			centrigrade from list of impairments	Pollutant(s) for which there is a TMDL:
Longitude				IN/A
If substantic	ally identical to other or	utfall, list identical outfall ID:		
Outfall ID	076 (Sector AA, Subsector A1)	Sandia Canyon (Sigma Canyon to NPDES outfall 001)	01104 Aluminum, total recoverable [as Al]; 01040 Copper,	TMDL Name and ID: N/A
Latitude	35.8758507	Add new monitored outfall 076	dissolved [as Cu]; 39516 Polychlorinated biphenyls [PCBs]	Pollutant(s) for which there is a TMDL:
Longitude	-106.327924	to permit coverage and NetDMR. Monitoring began June 1, 2019.	Diplicity is [i Obs]	N/A
If substantio	illy identical to other o	utfall, list identical outfall ID:		
Outfall ID				TMDL Name and ID:
Latitude				Poliutant(s) for which there is a TMDL:
Longitude				
If substantia	lly identical to other ou	utfall, list identical outfall ID:		
Outfall ID				TMDL Name and ID:
Latitude				Pollutant(s) for which there is a TMDL:
Longitude				
If substantia	lly identical to other ou	utfall, list identical outfall ID:		

4. Provide the following Information about your outfall latitude longitude:
Latitude/Longitude Data Source: Map GPS Other If you used a USGS topographic map, what was the scale?
Horizontal Reference Datum: NAD 27 NAD 83 WGS 84
5. Does your facility discharge into a Muncipal Separate Storm Sewer System (MS4)? YES NO
If yes, provide the name of the MS4 operator:
6. Check if you discharge to any of the waters of the U.S. that are 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) or as a Tier 3 water (Outstanding National Resource Water)? (See Appendix L).
☐ Tier 2/2,5. Provide the name(s) of receiving water(s):
☐ Tier 3 (Outstanding National Resource Waters)*
* Note: You are ineligible for coverage if you are a new discharger or new source to waters designated as Tier 3 (outstanding national resource waters) for antidegradation purposes under 40 CFR 131.13(a)(3). 7. If you are subject to benchmark monitoring requirements for a hardness-dependent metal, what is the hardness of your receiving water(s) (see Appendix J)? [mg/L]
8. If you are subject to benchmark monitoring requirements for a hardness-dependent metal, does your facility discharge into any saltwater receiving waters? YES NO
9. Does your facility discharge to a federal CERCLA site listed in Appendix P? 🔲 YES 👚 NO
If yes, did you notify the EPA Regional Office in advance of filing your NOI, and did the EPA Regional Office determine that you are eligible for permit coverage pursuant to Part 1.1.4.10*? 🔲 YES 🔠 NO
* Note: If you discharge to a federal CERCLA site listed in Appendix P, you are ineligible for coverage under this permit unless you notify the EPA Regional Office in advance and the EPA Regional Office determines you are eligible coverage under this permit. In determining your eligiblility for coverage under this Part, the EPA Regional Office may evaluate whether you have included adequate controls and/or procedures to ensure that your discharges will not lead to recontamination of aquatic media at the CERCLA Site such that it will to cause or contribute to an exceedance of a water quality standard.
F. Stormwater Pollution Prevention Plan (SWPPP) Information
1. Has the SWPPP been prepared in advance of filing this NOI, as required? YES NO
2. SWPPP Contact Information:
First Name, Middle Initial, Last Name;
Professional Title:
Phone:
E-mail:
3. SWPPP Availability:
Your current SWPPP or certain information from your SWPPP must be made available through one of the following two 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) (such information may be redacted), but you must clearly identify those portions of the SWPPP that are being withheld from public access.
☐ Option 1 : Maintain a current copy of your SWPPP on an Internet page (Universal Resource Locator or URL).
Provide the web address URL:
Option 2: Provide the following information from your SWPPP:
A. Describe your onsite industrial activities exposed to stormwater (e.g., material storage; equipment fueling, maintenance, and cleaning; cutting steel beams), and potential spill and leak areas:

C. Describe the control measures you will employ to comply with the non-numeric lechnology-based effluent limits ragived 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; pee Part 5.2.4): D. Provide a schedule for good housekeeping and maintenance (see Part 5.2.5.1) and a schedule for all inspections required in Part 4 (see Part 5.2.5.2): D. Provide a schedule for good housekeeping and maintenance (see Part 5.2.5.1) and a schedule for all inspections required in Part 4 (see Part 5.2.5.2): D. Provide a schedule for good housekeeping and maintenance (see Part 5.2.5.1) and a schedule for all inspections required in Part 4 (see Part 5.2.5.2): D. Provide a schedule for good housekeeping and maintenance (see Part 5.2.5.1) and a schedule for all inspections required in Part 4 (see Part 5.2.5.2): D. It is shall be schedule for good housekeeping and maintenance (see Part 5.2.5.1) and a schedule for all inspections required in Part 4 (see Part 5.2.5.2): D. It is shall be schedule for good housekeeping and maintenance (see Part 5.2.5.1) and a schedule for all inspections required in Part 4 (see Part 5.2.5.2): D. Provide a schedule for good housekeeping and maintenance (see Part 5.2.5.1) and a schedule for all inspections required in Part 4 (see Part 5.2.5.2): D. Provide a schedule for good housekeeping and maintenance (see Part 5.2.5.1) and a schedule for all species or ensure your discharges shall be part 1.1.4.5 are you efficient in Part 4 (see Part 5.2.5.2): D. Provide a schedule for good housekeeping and maintenance (see Part 5.2.5.1) and a schedule for coverage under this permit in Part 1.1.4.5 are you efficient in Part 4 (see Part 5.2.5.2): D. Using the Appandix E worksheet, check which of the following guestions: D. Using the Appandix E worksheet, check which of the following is applicable to your facility and answer any corresponding guestions: D. Using the Appandix E worksheet, check which of the following is ap	В	, List the pollutant(s) or pollutant constituent(s) associated with each industrial activity exposed to stormwater that could be discharged in stormwater and any authorized non-stormwater discharges listed in Part 1.1,3:
G. Endangered Species Protection 1. Using the instructions in Appendix E of the MSGP, under which endangered species criterion listed in Part 1.1.4.5 are you eligible for coverage under this permit (only check 1 box) 8° A B C D B E Note: After you submit your NOI and before your NOI is authorized, EPA may notify you if any additional controls are necessary to ensure your discharges have no likely adverse affects on listed species and critical habitat. 2. Provide a brief summary of the basis for the criterion selected in Appendix E (e.g., communication with U.S. Fish and Wildlife Service or National Marine Fisheries Service to determine no species in action area; implementation of controls approved by EPA and the Services): 3. If you select criterion B, provide the NPDES ID from the other operator's NOI authorized under this permit: 4. If you select criterion C, you must answer the following questions: a. What federally-fished species or designated critical habitat are located in your "action area": b. Using the Appendix E worksheet, check which of the following is applicable to your facility and answer any corresponding questions: b. Using the Appendix E worksheet, check which of the following is applicable to your facility and answer any corresponding questions: b. Using the Appendix E worksheet, check which of the following is applicable to your facility and answer any corresponding questions: b. Using the Appendix E worksheet, check which of the following is applicable to your facility and answer any corresponding questions: b. Using the Appendix E worksheet, check which of the following is applicable to your facility and answer any corresponding questions: b. Using the Appendix E worksheet, check which of the following is applicable to your facility and answer any corresponding questions: b. Using the Appendix E worksheet, check which of the following is applicable to your facility and answer any corresponding questions: c. What federally-fished species and critical habitat. Details a permit	C	
1. Using the instructions in Appendix E of the MSCP, under which endangered species criterion listed in Part 1,1.4.5 are you eligible for coverage under this permit (only check 1 box)?* A		
permit (only check 1 box)?* A B C D B E Note: After you submit your NOI and before your NOI is outhorized, EPA may notify you if any additional controls are necessary to ensure your discharges have no likely adverse affects on listed species and critical habitat. Provide a brief summary of the basis for the criterion selected in Appendix E (e.g., communication with U.S. Fish and Wildlife Service or National Marine Fisheries Service to determine no species in action area; implementation of controls approved by EPA and the Services): 3. If you select criterion B, provide the NPDES ID from the other operator's NOI authorized under this permit: 4. If you select criterion C, you must answer the following questions: a. What federally-listed species or designated critical habitat are located in your "action area": b. Using the Appendix E worksheet, check which of the following is applicable to your facility and answer any corresponding questions: b. Using the Appendix E worksheet, check which of the following is applicable to your facility and answer any corresponding questions: b. Using the Appendix E worksheet, check which of the following is applicable to your facility and answer any corresponding questions: b. Using the Appendix E worksheet, check which of the following is applicable to your facility and answer any corresponding questions: b. Using the Appendix E worksheet, check which of the following is applicable to your facility and answer any corresponding questions: b. Using the Appendix E worksheet, check which of the following is applicable to your facility and answer any corresponding questions: b. Using the Appendix E worksheet, check which of the following is applicable to your facility and answer any corresponding questions: c. Using the Appendix E worksheet, check which of the following is applicable to your facility and answer any corresponding questions: c. Using the Appendix E worksheet, check which of the following is applicable to your facility and answer any corresponding applicab	┕	
Note: After you submit your NOI and before your NOI is authorized, EPA may notify you if any additional controls are necessary to ensure your discharges have no likely adverse affects on listed species and critical habitat. Provide a brief summary of the basis for the criterion selected in Appendix E (e.g., communication with U.S. Fish and Wildlife Service or National Marine Fisheries Service to determine no species in action area; implementation of controls approved by EPA and the Services): 3. If you select criterion B, provide the NPDES ID from the other operator's NOI authorized under this permit: 4. If you select criterion C, you must answer the following questions: a. What federally-listed species or designated critical habitat are located in your "action area": b. Using the Appendix E worksheet, check which of the following is applicable to your facility and answer any corresponding questions: I submitted my completed Criterion C Eligibility Form to EPA at least 30 days prior to submitting this NOI and agree to implement any additional measures that were determined by EPA to be necessary to ensure that my discharges and/or discharge-related activities will not have likely adverse affects on listed species and critical habitat. Date your Criterion C Eligibility Form was sent to EPA: I submitted my completed Criterion C Eligibility Form to EPA at least 30 days prior to submitting this NOI and have not been notified of any additional measures necessary to ensure no likely adverse affects on listed species and critical habitat.	1	
have no likely adverse affects on listed species and critical habitat. 2. Provide a brief summary of the basis for the criterion selected in Appendix E (e.g., communication with U.S. Fish and Wildlife Service or National Marine Fisheries Service to determine no species in action area; implementation of controls approved by EPA and the Services): 3. If you select criterion B, provide the NPDES ID from the other operator's NOI authorized under this permit: 4. If you select criterion C, you must answer the following questions: a. What federally-listed species or designated critical habitat are located in your "action area": b. Using the Appendix E worksheet, check which of the following is applicable to your facility and answer any corresponding questions: I submitted my completed Criterion C Eligibility Form to EPA at least 30 days prior to submitting this NOI and agree to implement any additional measures that were determined by EPA to be necessary to ensure that my discharges and/or discharge-related activities will not have likely adverse affects on listed species and critical habitat. Date your Criterion C Eligibility Form was sent to EPA: Submitted my completed Criterion C Eligibility Form to EPA at least 30 days prior to submitting this NOI and have not been notified of any additional measures necessary to ensure no likely adverse affects on listed species and critical habitat.		□ A □ B □ C □ D □ E
Fisheries Service to determine no species in action area; implementation of controls approved by EPA and the Services): 3. If you select criterion B, provide the NPDES ID from the other operator's NOI authorized under this permit: 4. If you select criterion C, you must answer the following questions: a. What federally-listed species or designated critical habitat are located in your "action area": b. Using the Appendix E worksheet, check which of the following is applicable to your facility and answer any corresponding questions: I submitted my completed Criterion C Eligibility Form to EPA at least 30 days prior to submitting this NOI and agree to implement any additional measures that were determined by EPA to be necessary to ensure that my discharges and/or discharge-related activities will not have likely adverse affects on listed species and critical habitat. Date your Criterion C Eligibility Form was sent to EPA: Describe any EPA-approved measures you will implement to ensure no likely adverse affects on listed species and critical habitat: I submitted my completed Criterion C Eligibility Form to EPA at least 30 days prior to submitting this NOI and have not been notified of any additional measures necessary to ensure no likely adverse affects on listed species and critical habitat.	*	
4. If you select criterion C, you must answer the following questions: a. What federally-listed species or designated critical habitat are located in your "action area": b. Using the Appendix E worksheet, check which of the following is applicable to your facility and answer any corresponding questions: I submitted my completed Criterion C Eligibility Form to EPA at least 30 days prior to submitting this NOI and agree to implement any additional measures that were determined by EPA to be necessary to ensure that my discharges and/or discharge-related activities will not have likely adverse affects on listed species and critical habitat. Date your Criterion C Eligibility Form was sent to EPA:	2.	
a. What federally-listed species or designated critical habitat are located in your "action area": b. Using the Appendix E worksheet, check which of the following is applicable to your facility and answer any corresponding questions: I submitted my completed Criterion C Eligibility Form to EPA at least 30 days prior to submitting this NOI and agree to implement any additional measures that were determined by EPA to be necessary to ensure that my discharges and/or discharge-related activities will not have likely adverse affects on listed species and critical habitat. Date your Criterion C Eligibility Form was sent to EPA: / /	3,	If you select criterion B, provide the NPDES ID from the other operator's NOI authorized under this permit:
b. Using the Appendix E worksheet, check which of the following is applicable to your facility and answer any corresponding questions: I submitted my completed Criterion C Eligibility Form to EPA at least 30 days prior to submitting this NOI and agree to implement any additional measures that were determined by EPA to be necessary to ensure that my discharges and/or discharge-related activities will not have likely adverse affects on listed species and critical habitat. Date your Criterion C Eligibility Form was sent to EPA:	4.	
□ I submitted my completed Criterion C Eligibility Form to EPA at least 30 days prior to submitting this NOI and agree to implement any additional measures that were determined by EPA to be necessary to ensure that my discharges and/or discharge-related activities will not have likely adverse affects on listed species and critical habitat. Date your Criterion C Eligibility Form was sent to EPA: □ □ / □ □ / □ □ □ □ □ □ □ □ □ □ □ □ □		a. What federally-listed species or designated critical habitat are located in your "action area":
that were determined by EPA to be necessary to ensure that my discharges and/or discharge-related activities will not have likely adverse affects on listed species and critical habitat. Date your Criterion C Eligibility Form was sent to EPA: Describe any EPA-approved measures you will implement to ensure no likely adverse affects on listed species and critical habitat:		b. Using the Appendix E worksheet, check which of the following is applicable to your facility and answer any corresponding questions:
Describe any EPA-approved measures you will implement to ensure no likely adverse affects on listed species and critical habitat:		that were determined by EPA to be necessary to ensure that my discharges and/or discharge-related activities will not have likely adverse affects on
☐ I submitted my completed Criterion C Eligibility Form to EPA at least 30 days prior to submitting this NOI and have not been notified of any additional measures necessary to ensure no likely adverse affects on listed species and critical habitat.		Date your Criterion C Eligibity Form was sent to EPA:
measures necessary to ensure no likely adverse affects on listed species and critical habitat.		Describe any EPA-approved measures you will implement to ensure no likely adverse affects on listed species and critical habitat:
measures necessary to ensure no likely adverse affects on listed species and critical habitat.		
Date your Criterion C Eligibility Form was sent to EPA:		measures necessary to ensure no likely adverse affects on listed species and critical habitat.
5. If you select criterion D or E, you must attach copies of any letters or other communications with the U.S. Fish and Wildlife Service or National Marine Fisheries	5.	

H. Historic Pr	reservation				
1. If your fac	cility is not located o	n Indian country lands, is your facil	ity located on a pro	perty of religious or c	cultural significance to an Indian tribe?
☐ YES	□NO		2		
If yes, pr	ovide the name of the	ne Indian tribe associated with the	properly:		
	instructions in Apper s permit (only check		storic properties pre	eservation criterion list	ed in Part 1.1.4.6 are you eligible for coverage
□ A	В С	D			
i. Certification	on Information		na e		
to assure the system, or th	at qualified personne nose persons directly	I properly gathered and evaluate responsible for gathering the infor	d the information su mation, the informa	ubmitted. Based on m tion submitted is, to tl	r supervision in accordance with a system designed ny inquiry of the person or persons who manage the he best of my knowledge and belief, true, accurate, e possibility of fine and imprisonment for knowing
First Name, h	Middle Initial, Last Na	me: Enrique		Torres	
Title:	Divis	ion Leader		ШШШ	
Signature:	20	~2			Date: 06/11/2019
E-mail:	etorr	es@lanl.gov	ШШ		

Attachment 4

NetDMR Monitoring Requirements for Los Alamos National Laboratory, Operated by Triad National Security, LLC, MSGP ID NMR050013

EPC-DO: 19-191

LA-UR-19-25199

Date:	JUN 1 1 2019	

							ELG, Modified Benchmark, and Impaired Waters Limits per MSGP Section 9.6.2 and the NM Water Quality Standards (20.6.4.900 NMAC [New Mexico Administrative Code])										
		Permitted			Consolidated Discharge #		Parameter	the NW Water	Quality Sta	Quality	0.4.500 NIVIAC [N	EW WEXI			Monitoring Period Start		DMR Due
Permit ID	Facility	Feature	Sector(s)	Subsector	(Limit Set)	Discharge Description	Code	Parameter Name	Symbol	Value	Limit Type	Units	Freq. of Analysis		Date	Date	Date
NMR050013	Los Alamos National Laboratory	002	AA	AA1	002-11	11 Fabricated Metal Products, except Coating	01104 1 0	Aluminum, total recoverable [as Al]	<=		Maximum	ug/L	1/60	Gr	4/1/2019	5/31/2019	7/31/2019
NMR050013	Los Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating	01045 1 0	Iron, total [as Fe]	4=		Maximum	ug/L	1/60	Gr	4/1/2019	5/31/2019	7/31/2019
NMR050013	Los Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating	51450 1 0	Nitrite Plus Nitrate Total	4=		Maximum	mg/L	1/60	Gr	4/1/2019	5/31/2019	
NMR050013	Los Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating	01090-1-0	Zinc, dissolved [as Zn]	<=	550,000	Maximum	ug/L	1/60	Gr	4/1/2019	5/31/2019	
NMR050013	Los Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating	01104 1 0	Aluminum, total recoverable [as Al]	4 =		Maximum	ug/L	1/60	Gr	6/1/2019	7/31/2019	
NMR050013	Los Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating	01045 1 0	Iron, total [as Fe]	=		Maximum	ug/L	1/60	Gr	6/1/2019	7/31/2019	
NMR050013	Los Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating	51450-1-0	Nitrite Plus Nitrate Total	-		Maximum	mg/L	1/60	Gr	6/1/2019	7/31/2019	9/30/2019
NMR050013	Los Alamos National Laboratory	002	AA	AA1	002-11	11 Fabricated Metal Products, except Coating	01090 1 0	Zinc, dissolved [as Zn]	<=		Maximum	ug/L	1/60	Gr	6/1/2019	7/31/2019	9/30/2019
NMR050013	Los Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating	01104 1 0	Aluminum, total recoverable [as Al]	=		Maximum	ug/L	1/60	Gr	8/1/2019	9/30/2019	
NMR050013	Los Alamos National Laboratory	002	AA	AA1	002-11	11 Fabricated Metal Products, except Coating	01045 1 0	Iron, total [as Fe]	-		Maximum	ug/L	1/60	Gr	8/1/2019	9/30/2019	11/30/2019
NMR050013	Los Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating	51450 1 0	Nitrite Plus Nitrate Total	-		Maximum	mg/L	1/60	Gr	8/1/2019	9/30/2019	11/30/2019
NMR050013	Los Alamos National Laboratory	002	AA	AA1	002-11	11 Fabricated Metal Products, except Coating	01090 1 0	Zinc, dissolved [as Zn]	4 =		Maximum	ug/L	1/60	Gr	8/1/2019	9/30/2019	11/30/2019
NMR050013	Los Alamos National Laboratory	002	AA	AA1	002-11	11- Fabricated Metal Products, except Coating	01104 1 0	Aluminum, total recoverable [as Al]	-		Maximum		1/60	Gr	10/1/2019	11/30/2019	
NMR050013	Los Alamos National Laboratory	002	AA	AA1	002-11	11 Fabricated Metal Products, except Coating	01045 1 0	Iron, total [as Fe]	4 =		Maximum	ug/L	1/60	Gr		11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	002	AA	AA1	002-11	11 Fabricated Metal Products, except Coating	51450 1 0	Nitrite Plus Nitrate Total			Maximum	ug/L			10/1/2019		1/31/2020
NMR050013	Los Alamos National Laboratory	002		AA1	002-11	11 Fabricated Metal Products, except Coating	01090 1 0	Zinc, dissolved (as Zn)	←		and the second s	mg/L	1/60	Gf C-	10/1/2019	11/30/2019	1/31/2020
NMR050013	NAMES OF THE PARTY		AA	AA1				Was the feeting of the Control of th	←		Maximum	ug/L	1/60	Gr Gr	10/1/2019	11/30/2019	1/31/2020
	Los Alamos National Laboratory	002	AA		002 IW	IW Impaired Water	01104 1 0	Aluminum, total recoverable [as Al]	← =		Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	002	AA	AA1	002-IW	IW Impaired Water	01040 1 0	Copper, dissolved [as Cu]	<=		Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	002	AA	AA1	002-IW	IW Impaired Water	39516 1 0	Polychlorinated biphenyls [PCBs]	<=		Maximum	ug/L	1/YR	Gf	4/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	002	AA	AA1	002-IW	IW—Impaired Water	00010-1-0	Temperature, water-deg. centigrade	←	24	Maximum	deg €	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
		205		0.1	005.04	04.6: 51.1.6	04045 4 0					-				- 45 - 45 - 4	
NMR050013	Los Alamos National Laboratory	005	0	01	005-01	O1 - Steam Electric Generating Facilities	01045 1 0	Iron, total [as Fe]	<=		Maximum	ug/L	1/60	Gr	4/1/2019	5/31/2019	7/31/2019
	Los Alamos National Laboratory	005	0	01	005-01	O1 - Steam Electric Generating Facilities	01045 1 0	Iron, total [as Fe]	<=		Maximum	ug/L	1/60	Gr	6/1/2019	7/31/2019	9/30/2019
NMR050013	Los Alamos National Laboratory	005	0	01	005-01	O1 - Steam Electric Generating Facilities	01045 1 0	Iron, total [as Fe]	<=		Maximum	ug/L	1/60	Gr	8/1/2019	9/30/2019	11/30/2019
	Los Alamos National Laboratory	005	0	01	005-01	O1 - Steam Electric Generating Facilities	01045 1 0	Iron, total [as Fe]	<=		Maximum	ug/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	005	0	01	005-IW	IW - Impaired Water	01104 1 0	Aluminum, total recoverable [as Al]	<=		Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
	Los Alamos National Laboratory	005	0	01	005-IW	IW - Impaired Water	01040 1 0	Copper, dissolved [as Cu]	<=	7	Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
	Los Alamos National Laboratory	005	0	01	005-IW	IW - Impaired Water	39516 1 0	Polychlorinated biphenyls [PCBs]	<=		Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	005	0	01	005 IW	IW-Impaired Water	00010-1-0	Temperature, water deg. centigrade	<=	24	Maximum	deg C	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
	Los Alamos National Laboratory	009	0	01	009-01	O1 - Steam Electric Generating Facilities	01045 1 0	Iron, total [as Fe]	<=		Maximum	ug/L	1/60	Gr	4/1/2019	5/31/2019	7/31/2019
	Los Alamos National Laboratory	009	0	01	009-01	O1 - Steam Electric Generating Facilities	01045 1 0	Iron, total [as Fe]	<=		Maximum	ug/L	1/60	Gr	6/1/2019	7/31/2019	9/30/2019
	Los Alamos National Laboratory	009	0	01	009-01	O1 - Steam Electric Generating Facilities	01045 1 0	Iron, total [as Fe]	<=		Maximum	ug/L	1/60	Gr	8/1/2019	9/30/2019	11/30/2019
	Los Alamos National Laboratory	009	0	01		O1 - Steam Electric Generating Facilities		lron, total [as Fe]	<=		Maximum	ug/L	1/60	Gr	10/1/2019		1/31/2020
NMR050013	Los Alamos National Laboratory	009	0	01	009-IW	IW - Impaired Water	01104 1 0	Aluminum, total recoverable [as Al]	<=	1010	Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
	Los Alamos National Laboratory	009	0	01	009-IW	IW - Impaired Water	01040 1 0	Copper, dissolved [as Cu]	<=		Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
	Los Alamos National Laboratory	009	0	01	009-IW	IW - Impaired Water	39516 1 0	Polychlorinated biphenyls [PCBs]	<=		Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	009	0	01	009-IW	IW-Impaired Water	00010-1-0	Temperature, water deg. centigrade	4 =	24	Maximum	deg C	1/YR	Gf	4/1/2019	11/30/2019	1/31/2020
	Los Alamos National Laboratory	012	0	01	012-01	O1 - Steam Electric Generating Facilities	01045 1 0	Iron, total [as Fe]	<=		Maximum	ug/L	1/60	Gr	4/1/2019	5/31/2019	7/31/2019
	Los Alamos National Laboratory	012	0	01	012-01	O1 - Steam Electric Generating Facilities	01045 1 0	Iron, total [as Fe]	<=		Maximum	ug/L	1/60	Gr	6/1/2019	7/31/2019	9/30/2019
	Los Alamos National Laboratory	012	0	01	012-01	O1 - Steam Electric Generating Facilities	01045 1 0	Iron, total [as Fe]	<=	1000	Maximum	ug/L	1/60	Gr	8/1/2019	9/30/2019	11/30/2019
NMR050013	Los Alamos National Laboratory	012	0	01	012-01	O1 - Steam Electric Generating Facilities	01045 1 0	Iron, total [as Fe]	<=	1000	Maximum	ug/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	012	0	01	012-IW	IW - Impaired Water	01104 1 0	Aluminum, total recoverable [as Al]	<=	1010	Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	012	0	01	012-IW	IW - Impaired Water	01040 1 0	Copper, dissolved [as Cu]	<=	7	Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	012	0	01	012-IW	IW - Impaired Water	39516 1 0	Polychlorinated biphenyls [PCBs]	<=	0.2	Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	012	θ	01	012-IW	IW-Impaired Water	00010-1-0	Temperature, water deg. centigrade	<=	24 1	Maximum	deg C	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	017	AA, F	AA1, F4	017-11	11 Fabricated Metal Products, except Coating	01104 1 0	Aluminum, total recoverable [as Al]	<=	1010	Maximum	ug/L	1/60	Gr	4/1/2019	5/31/2019	7/31/2019
	Los Alamos National Laboratory	017	AA, F	AA1, F4	017-11	11 Fabricated Metal Products, except Coating	01040 1 0	Copper, dissolved [as Cu]	←	7 1	Maximum	ug/L	1/60	Gr	4/1/2019	5/31/2019	7/31/2019
NMR050013	Los Alamos National Laboratory	017	AA, F	AA1, F4	017-11	11 Fabricated Metal Products, except Coating	01045-1-0	Iron, total [as Fe]	<=	1000	Maximum	ug/L	1/60	Gr	4/1/2019	5/31/2019	7/31/2019
NMR050013	Los Alamos National Laboratory	017	AA, F	AA1, F4	017-11	11 Fabricated Metal Products, except Coating	51450 1 0	Nitrite Plus Nitrate Total	<=		Maximum	mg/L	1/60	Gr	4/1/2019	5/31/2019	7/31/2019
NMR050013	Los Alamos National Laboratory	017	AA, F	AA1, F4	017-11	11 Fabricated Metal Products, except Coating	01090 1 0	Zinc, dissolved [as Zn]	<=		Maximum	ug/L	1/60	Gr	4/1/2019	5/31/2019	7/31/2019
NMR050013	Los Alamos National Laboratory	017	AA, F	AA1, F4	017-11	11 Fabricated Metal Products, except Coating	01104 1 0	Aluminum, total recoverable [as Al]	4=		Maximum	ug/L	1/60	Gr	6/1/2019	7/31/2019	9/30/2019
	Los Alamos National Laboratory	017	AA, F	AA1, F4	017-11	11 Fabricated Metal Products, except Coating	01040 1 0	Copper, dissolved [as Cu]	<=		Maximum	ug/L	1/60	Gr	6/1/2019	7/31/2019	9/30/2019
		/-		10,2117		A STATE OF THE PARTY OF THE PAR	323.320	astern's managed from soil		71	T-SAULIMIT	₩6/E	1,00	- Gr	0/ 1/2025	1/342019	J ₁ J OJ ZO11

							ELG, Modified Benchmark, and Impaired Waters Limits per MSGP Section 9.6.2 and the NM Water Quality Standards (20.6.4.900 NMAC [New Mexico Administrative Code])										
		Permitted			Consolidated Discharge #		Parameter			Quality			Freq. of		Monitoring Period Start	Monitoring Period End	DMR Due
Permit ID	Facility	Feature	Sector(s)	Subsector	(Limit Set)	Discharge Description	Code	Parameter Name	Symbol	Value	Limit Type	Units	Analysis	Туре	Date	Date	Date
MR050013	Los Alamos National Laboratory	017	AA, F	AA1, F4	017-11	11- Fabricated Metal Products, except Coating	01045-1-0	Iron, total [as Fe]	<=	1000	Vaximum	ug/L	1/60	Gr	6/1/2019	7/31/2019	9/30/2019
VMR050013	Los Alamos National Laboratory	017	AA, F	AA1, F4	017-11	11- Fabricated Metal Products, except Coating	51450 1 0	Nitrite Plus Nitrate Total	4=	4 83.0	Vaximum	mg/L	1/60	Gr	6/1/2019	7/31/2019	9/30/2019
VMR050013	Los Alamos National Laboratory	017	AA, F	AA1, F4	017-11	11 Fabricated Metal Products, except Coating	01090-1-0	Zinc, dissolved (as Zn)	<=	4 66	Vaximum	ug/L	1/60	Gr	6/1/2019	7/31/2019	9/30/2019
VMR050013	Los Alamos National Laboratory	017	AA, F	AA1, F4	017-11	11 Fabricated Metal Products, except Coating	01104 1 0	Aluminum, total recoverable [as Al]	<=	1010 A	Vaximum	ug/L	1/60	Gr	8/1/2019	9/30/2019	11/30/2019
VMR050013	Los Alamos National Laboratory	017	AA, F	AA1, F4	017-11	11- Fabricated Metal Products, except Coating	01040-1-0	Copper, dissolved (as Cu)	<=	4 7	Vlaximum	ug/L	1/60	Gr	8/1/2019	9/30/2019	11/30/2019
VMR050013	Los Alamos National Laboratory	017	AA, F	AA1, F4	017-11	11 Fabricated Metal Products, except Coating	01045-1-0	Iron, total [as Fe]	<=	4 000£	Vaximum	ug/L	1/60	Gr	8/1/2019	9/30/2019	11/30/2019
VMR050013	Los Alamos National Laboratory	017	AA, F	AA1, F4	017-11	11- Fabricated Metal Products, except Coating	51450-1-0	Nitrite Plus Nitrate Total	4=	4 83.0	Vaximum	mg/L	1/60	Gr	8/1/2019	9/30/2019	11/30/2019
VMR050013	Los Alamos National Laboratory	017	AA, F	AA1, F4	017-11	11 Fabricated Metal Products, except Coating	01090-1-0	Zinc, dissolved [as Zn]	<=	4 66	Vaximum	ug/L	1/60	Gf	8/1/2019	9/30/2019	11/30/2019
VMR050013	Los Alamos National Laboratory	017	AA, F	AA1, F4	017-11	11 Fabricated Metal Products, except Coating	01104 1 0	Aluminum, total recoverable [as Al]	<=	1010 A	Vlaximum	ug/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
VMR050013	Los Alamos National Laboratory	017	AA, F	AA1, F4	017-11	11 Fabricated Metal Products, except Coating	01040-1-0	Copper, dissolved [as Cu]	4=	7 4	Vlaximum	ug/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
VMR050013	Los Alamos National Laboratory	017	AA, F	AA1, F4	017-11	11- Fabricated Metal Products, except Coating	01045 1 0	Iron, total [as Fe]	<=	1000 A	Maximum	ug/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
VMR050013	Los Alamos National Laboratory	017	AA, F	AA1, F4	017-11	11- Fabricated Metal Products, except Coating	51450-1-0	Nitrite Plus Nitrate Total	4=	4 88.0	Vlaximum	mg/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
VMR050013	Los Alamos National Laboratory	017	AA, F	AA1, F4	017-11	11 Fabricated Metal Products, except Coating	01090-1-0	Zinc, dissolved (as Zn)	<=	4 66	Vaximum	ug/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
VMR050013	Los Alamos National Laboratory	017	AA, F	AA1, F4	017-IW	IW - Impaired Water	01104 1 0	Aluminum, total recoverable [as Al]	<=	1010 A	Vaximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	017	AA, F	AA1, F4	017-IW	IW Impaired Water	01040 1 0	Copper, dissolved [as Cu]	4=	7 4	Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	017	AA, F	AA1, F4	017-IW	IW Impaired Water	39516 1 0	Polychlorinated biphenyls [PCBs]	<=	0.2	Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	017	AA, F	AA1, F4	017-IW	IW - Impaired Water	00010 1 0	Temperature, water deg. centigrade	4=	24 A	Maximum	deg-C	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	020	AA, F	AA1, F4	020-11	11 Fabricated Metal Products, except Coating	01104 1 0	Aluminum, total recoverable (as Al)	<=	1010 A	Naximum	ug/L	1/60	Gr	4/1/2019	5/31/2019	7/31/2019
NMR050013	Los Alamos National Laboratory	020	AA, F	AA1, F4	020-11	11 Fabricated Metal Products, except Coating	01040 1 0	Copper, dissolved (as Cu)	4=	7 4	Vaximum	ug/L	1/60	Gr	4/1/2019	5/31/2019	7/31/2019
NMR050013	Los Alamos National Laboratory	020	AA, F	AA1, F4	020-11	11 Fabricated Metal Products, except Coating	01045 1 0	Iron, total [as Fe]	<=	1000 A	Vaximum	ug/L	1/60	Gr	4/1/2019	5/31/2019	7/31/2019
NMR050013	Los Alamos National Laboratory	020	AA, F	AA1, F4	020-11	11- Fabricated Metal Products, except Coating	51450-1-0	Nitrite Plus Nitrate Total	4=	A 88.0	Naximum	mg/L	1/60	Gr	4/1/2019	5/31/2019	7/31/2019
NMR050013	Los Alamos National Laboratory	020	AA, F	AA1, F4	020-11	11- Fabricated Metal Products, except Coating	01090 1 0	Zinc, dissolved [as Zn]	<=	4 99	Vaximum	ug/L	1/60	Gr	4/1/2019	5/31/2019	7/31/2019
NMR050013	Los Alamos National Laboratory	020	AA, F	AA1, F4	020-11	11- Fabricated Metal Products, except Coating	01104-1-0	Aluminum, total recoverable (as Al)	4=	1010 A	Maximum	ug/L	1/60	Gr	6/1/2019	7/31/2019	9/30/2019
NMR050013	Los Alamos National Laboratory	020	AA, F	AA1, F4	020-11	11 Fabricated Metal Products, except Coating	01040 1 0	Copper, dissolved (as Cu)	<=	7 4	Aaximum	ug/Ł	1/60	Gr	6/1/2019	7/31/2019	9/30/2019
NMR050013	Los Alamos National Laboratory	020	AA, F	AA1, F4	020-11	11 Fabricated Metal Products, except Coating	01045 1 0	Iron, total [as Fe]	<=	1000 A	Vaximum	ug/L	1/60	Gr	6/1/2019	7/31/2019	9/30/2019
NMR050013	Los Alamos National Laboratory	020	AA, F	AA1, F4	020-11	11 Fabricated Metal Products, except Coating	51450-1-0	Nitrite Plus Nitrate Total	4=	4 83.0	Naximum	mg/L	1/60	Gr	6/1/2019	7/31/2019	9/30/2019
NMR050013	Los Alamos National Laboratory	020	AA, F	AA1, F4	020-11	11 Fabricated Metal Products, except Coating	01090-1-0	Zinc, dissolved (as Zn)	<=	4 99	Aaximum	ug/L	1/60	Gr	6/1/2019	7/31/2019	9/30/2019
NMR050013	Los Alamos National Laboratory	020	AA, F	AA1, F4	020-11	11 Fabricated Metal Products, except Coating	01104-1-0	Aluminum, total recoverable [as Al]	<=	1010 A	Naximum	ug/L	1/60	Gr	8/1/2019	9/30/2019	11/30/2019
NMR050013	Los Alamos National Laboratory	020	AA, F	AA1, F4	020-11	11 Fabricated Metal Products, except Coating	01040-1-0	Copper, dissolved [as Cu]	4=	7 A	//aximum	ug/L	1/60	Gr	8/1/2019	9/30/2019	11/30/2019
NMR050013	Los Alamos National Laboratory	020	AA, F	AA1, F4	020-11	11 Fabricated Metal Products, except Coating	01045-1-0	Iron, total (as Fe)	4=	1000 A	Aaximum	ug/L	1/60	Gr	8/1/2019	9/30/2019	11/30/2019
NMR050013	Los Alamos National Laboratory	020	AA, F	AA1, F4	020-11	11 Fabricated Metal Products, except Coating	51450-1-0	Nitrite Plus Nitrate Total	<=	A 88.0	//aximum	mg/L	1/60	Gr	8/1/2019	9/30/2019	11/30/2019
NMR050013	Los Alamos National Laboratory	020	AA, F	AA1, F4	020-11	11 Fabricated Metal Products, except Coating	01090-1-0	Zinc, dissolved [as Zn]	<=		Aaximum	ug/L	1/60	Gr	8/1/2019	9/30/2019	11/30/2019
NMR050013	AND THE RESERVE TO A PROPERTY OF THE PARTY O	020	AA, F	AA1, F4	020-11	11 Fabricated Metal Products, except Coating	01104 1 0	Aluminum, total recoverable [as Al]	4=	1010 A	//aximum	ug/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	020	AA, F	AA1, F4	020-11	11 Fabricated Metal Products, except Coating	01040-1-0	Copper, dissolved [as Cu]	4=	7 4	Aaximum	ug/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	020	AA, F	AA1, F4	020-11	11 Fabricated Metal Products, except Coating	01045 1 0	Iron, total [as Fe]	<=	1000 A	Aaximum	ug/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
NMR050013		020	AA, F	AA1, F4	020-11	11 Fabricated Metal Products, except Coating	51450-1-0	Nitrite Plus Nitrate Total	<=	0.68 A	Aaximum	mg/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
NMR050013		020	AA, F	AA1, F4	020-11	11- Fabricated Metal Products, except Coating	01090 1 0	Zinc, dissolved [as Zn]	4=		Aaximum	ug/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	020	AA, F	AA1, F4	020-IW	IW Impaired Water	01104 1 0	Aluminum, total recoverable [as Al]	<=		Aaximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	020	AA, F	AA1, F4	020-IW	IW - Impaired Water	01040 1 0	Copper, dissolved [as Cu]	← =	7 4	Aaximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	020	AA, F	AA1, F4	020 IW	IW - Impaired Water	39516-1-0	Polychlorinated biphenyls [PCBs]	4=	0.2 A	Aaximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	020	AA, F	AA1, F4	020-IW	IW—Impaired Water	00010-1-0	Temperature, water deg. centigrade	<=	24 A	Aaximum	deg-C	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
NINADOCCO45	Los Alamos National Laboratory	022	AA	AA1	022-11	11- Fabricated Metal Products, except Coating	01104 1 0	Aluminum, total recoverable [as Al]	<=	1010 N	/laximum	ug/L	1/60	Gr	4/1/2019	5/31/2019	7/31/2019
NMR050013	1	022	AA	AA1	022-11	11- Fabricated Metal Products, except Coating	01045 1 0	Iron, total [as Fe]	<=		/laximum	ug/L	1/60	Gr	4/1/2019	5/31/2019	7/31/2019
NMR050013		022	AA	AA1	022-11	11- Fabricated Metal Products, except Coating	51450 1 0	Nitrite Plus Nitrate Total	<=		/laximum	mg/L	1/60	Gr	4/1/2019	5/31/2019	7/31/2019
NMR050013		022	AA	AA1	022-11	11- Fabricated Metal Products, except Coating	01090 1 0	Zinc, dissolved [as Zn]	<=		/laximum	ug/L	1/60	Gr	4/1/2019	5/31/2019	7/31/2019
NMR050013	Los Alamos National Laboratory	022	AA	AA1	022-11	11- Fabricated Metal Products, except Coating	01104 1 0	Aluminum, total recoverable [as Al]	<=		/laximum	ug/L	1/60	Gr	6/1/2019	7/31/2019	9/30/2019
NMR050013	Los Alamos National Laboratory	022	AA	AA1	022-11	11- Fabricated Metal Products, except Coating	01045 1 0	Iron, total [as Fe]	<=	100000000000000000000000000000000000000	/laximum	ug/L	1/60	Gr	6/1/2019	7/31/2019	9/30/2019
NMR050013		022	AA	AA1	022-11	11- Fabricated Metal Products, except Coating	51450 1 0	Nitrite Plus Nitrate Total	<=		/laximum	mg/L	1/60	Gr	6/1/2019	7/31/2019	9/30/2019
NMR050013	Los Alamos National Laboratory	022	AA	AA1	022-11	11- Fabricated Metal Products, except Coating	01090 1 0	Zinc, dissolved [as Zn]	<=		/laximum	ug/L	1/60	Gr	6/1/2019	7/31/2019	9/30/2019
NMR050013		022	AA	AA1	022-11	11- Fabricated Metal Products, except Coating	0110410	Aluminum, total recoverable [as Al]	<=		/laximum	ug/L	1/60	Gr	8/1/2019	9/30/2019	11/30/2019
NMR050013		-	AA	AA1	022-11	11- Fabricated Metal Products, except Coating	01045 1 0	iron, total [as Fe]	<=		/laximum	ug/L	1/60	Gr	8/1/2019	9/30/2019	11/30/2019
NMR050013 NMR050013		022	AA	AA1	022-11	11- Fabricated Metal Products, except Coating	51450 1 0	Nitrite Plus Nitrate Total	<=		/laximum	mg/L	1/60	Gr	8/1/2019	9/30/2019	11/30/2019
	Los Alamos National Laboratory	1 022	I AA	WAT	0.2.11			Indiana	A	0.00			-,		-, -,	-,,	11/30/2019

							ELG, Modified Benchmark, and Impaired Waters Limits per MSGP Section 9.6.2 and the NM Water Quality Standards (20.6.4.900 NMAC [New Mexico Administrative Code])										
Permit ID	Facility	Permitted Feature	Sector(s)	Subsector	Consolidated Discharge # (Limit Set)	Discharge Description	Parameter Code	Parameter Name	Symbol	Quality Value	Limit Type	Units	Freq. of	Smpl.	Monitoring Period Start Date	Monitoring Period End Date	DMR Due Date
	The Control of the Co	022	AA	AA1	022-11	11- Fabricated Metal Products, except Coating	01104 1 0	Aluminum, total recoverable [as Al]	<=		Maximum	ug/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
March per-Down Value of Service	Los Alamos National Laboratory Los Alamos National Laboratory	022	AA	AA1	022-11	11- Fabricated Metal Products, except Coating	01045 1 0	Iron, total [as Fe]	<=	-	Maximum	ug/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
	Los Alamos National Laboratory	022	AA	AA1	022-11	11- Fabricated Metal Products, except Coating	51450 1 0	Nitrite Plus Nitrate Total	<=		Maximum	mg/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
NMR050013 NMR050013	Los Alamos National Laboratory	022	AA	AA1	022-11	11- Fabricated Metal Products, except Coating	01090 1 0	Zinc, dissolved [as Zn]	<=		Maximum	ug/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	022	P	P1	022-IW	IW - Impaired Water	01104 1 0	Aluminum, total recoverable [as Al]	<=		Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
	Los Alamos National Laboratory	022	P	P1	022-IW	IW - Impaired Water	01040 1 0	Copper, dissolved [as Cu]	<=		Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
NMR050013 NMR050013	Los Alamos National Laboratory	022	P	P1	022-IW	IW - Impaired Water	39516 1 0	Polychlorinated biphenyls [PCBs]	<=		Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	022	р	P1	022-IW	IW - Impaired Water	00010-1-0	Temperature, water deg. centigrade	4=		Maximum	deg-C	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
NMKU5UU13	LOS Alamos National Laboratory	UZZ	-		OZZ IVV	in impared viole.	0002010	The state of the seasons and the seasons are seasons as a season a			Maximum	uch c	2/100	- Oi	1/1/2015	11/30/2013	1/31/2020
NMR050013	Los Alamos National Laboratory	026	P	P1	026-IW	IW - Impaired Water	01104 1 0	Aluminum, total recoverable [as Al]	<=	1010	Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
	Los Alamos National Laboratory	026	P	P1	026-IW	IW - Impaired Water	01040 1 0	Copper, dissolved [as Cu]	<=		Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
NMR050013		026	P	P1	026-IW	IW - Impaired Water	39516 1 0	Polychlorinated biphenyls [PCBs]	<=		Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	026	P	P1	026-IW	IW Impaired Water	00010 1 0	Temperature, water deg. centigrade	4=		Maximum	deg C	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	020			520 NV		101010	Para sala a mater web terrograde			MANUFACTOR IN	Jeg-C	2/111	- Or	1/1/2019	11,50,2015	1/31/1020
NIMADOE CO.1.2	Los Alamos National Laboratory	029	N	N2	029-IW	IW - Impaired Water	01104 1 0	Aluminum, total recoverable [as Al]	<=	1010	Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
***************************************	Los Alamos National Laboratory	029	N	N2	029-IW	IW - Impaired Water	01040 1 0	Copper, dissolved [as Cu]	<=		Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
		029	N	N2	029-IW	IW - Impaired Water	39516 1 0	Polychlorinated biphenyls [PCBs]	<=		Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
1	Los Alamos National Laboratory Los Alamos National Laboratory	029	N N	N2 N2	029-IW	IW Impaired Water	00010 1 0	Temperature, water deg. centigrade	4=		Maximum	deg-C	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
NMR050013	LOS MIGITIOS INACIONAL EADOTACOTY	923	14	ITE	025 111	Section of the sectio				-7	· · · · · · · · · · · · · · · · · · ·	acp c	-47.345	J.	1/ 2/ 2025	22/30/2019	2,02,2020
NMR050013	Los Alamos National Laboratory	031	Р	P1	031-IW	IW - Impaired Water	51931 1 0	Adjusted Gross Alpha	<=	15	Maximum	pCi/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
		031	P	P1	031-IW	IW - Impaired Water	01040 1 0	Copper, dissolved [as Cu]	<=		Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	031	P	P1	031-IW	IW - Impaired Water	71900 1 0	Mercury, total [as Hg]	<=		Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	031	P	P1	031-IW	IW - Impaired Water	39516 1 0	Polychlorinated biphenyls [PCBs]	<=		Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	031	-		051111		2022010	· stylenomical expension [1: 255]		- J.L	Traximan,	- WB/ L	2/111	O.	17 17 2013	11/30/2013	1/51/1020
NMR050013	Los Alamos National Laboratory	032	P	P1	032-IW	IW - Impaired Water	01104 1 0	Aluminum, total recoverable [as Al]	<=	1010	Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	032	P	P1	032-IW	IW - Impaired Water	01040 1 0	Copper, dissolved [as Cu]	<=		Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	032	P	P1	032-IW	IW - Impaired Water	39516 1 0	Polychlorinated biphenyls [PCBs]	<=		Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	032	p	P1	032 IW	IW - Impaired Water	00010-1-0	Temperature, water deg. centigrade	4=		Maximum	deg C	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
HIVIKUSUU1S	105 Alainos National Eaboratory	USE	· ·	1.2				, , , , ,			7				1,2,232		3,03,200
NMR050013	Los Alamos National Laboratory	036	P	P1	036-IW	IW Impaired Water	01104 1 0	Aluminum, total recoverable [as Al]	4=	1010	Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	036	P	P1	036 IW	IW - Impaired Water	01040 1 0	Copper, dissolved [as Cu]	4=	7.	Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	036	Р	P1	036-IW	IW Impaired Water	39516 1 0	Polychlorinated biphenyls [PCBs]	4=	0.2	Maximum	ug/L	1/YR	Gf	4/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	036	Р.	P1	036-IW	IW Impaired Water	00010 1 0	Temperature, water deg. centigrade	4=	24	Maximum	deg C	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
WWW.090019	Cosmanos rational caparatory																
NMR050013	Los Alamos National Laboratory	037	Р	P1	037-IW	IW - Impaired Water	01104 1 0	Aluminum, total recoverable [as Al]	<=	1010	Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	037	Р	P1	037-IW	IW - Impaired Water	01040 1 0	Copper, dissolved [as Cu]	<=	7	Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
	Los Alamos National Laboratory	037	Р	P1	037-IW	IW - Impaired Water	39516 1 0	Polychlorinated biphenyls [PCBs]	<=	0.2	Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
	•																
NMR050013	Los Alamos National Laboratory	039	Р	P1	039-IW	IW - Impaired Water	01104 1 0	Aluminum, total recoverable [as Al]	<=	1010	Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
	Los Alamos National Laboratory	039	Р	P1	039-IW	IW - Impaired Water	01040 1 0	Copper, dissolved [as Cu]	<=	7	Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	039	Р	P1	039-IW	IW - Impaired Water	39516 1 0	Polychlorinated biphenyls [PCBs]	<=	0.2	Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	039	₽	P1	039 IW	IW Impaired Water	00010-1-0	Temperature, water deg. centigrade	4=	24	Maximum	deg C	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	042	Р	P1	042-IW	IW - Impaired Water	01104 1 0	Aluminum, total recoverable [as Al]	<=	1010	Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	042	Р	P1	042-IW	IW - Impaired Water	01040 1 0	Copper, dissolved [as Cu]	<=	7	Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	042	Р	P1	042-IW	IW - Impaired Water	39516 1 0	Polychlorinated biphenyls [PCBs]	<=	0.2	Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	042	P	P1	042-IW	IW-Impaired Water	00010-1-0	Temperature, water deg. centigrade	<=	24	Vaximum	deg-€	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
						D1 - Asphalt Paving and Roofing Materials and	land to the same									2000	
NMR050013	Los Alamos National Laboratory	043	D	D1	043-D1	Lubricant Manufacturing	00530 1 0	Solids, total suspended	<=	100	Maximum	mg/L	1/60	Gr	4/1/2019	5/31/2019	7/31/2019
						D1 - Asphalt Paving and Roofing Materials and											
NMR050013	Los Alamos National Laboratory	043	D	D1	043-D1	Lubricant Manufacturing	00530 1 0	Solids, total suspended	<=	100	Maximum	mg/L	1/60	Gr	6/1/2019	7/31/2019	9/30/2019
						D1 - Asphalt Paving and Roofing Materials and											
NMR050013	Los Alamos National Laboratory	043	D	D1	043-D1	Lubricant Manufacturing	00530 1 0	Solids, total suspended	<=	100	Vlaximum	mg/L	1/60	Gr	8/1/2019	9/30/2019	11/30/2019

							ELG, Modified Benchmark, and Impaired Waters Limits per MSGP Section 9.6.2 and the NM Water Quality Standards (20.6.4.900 NMAC [New Mexico Administrative Code])										
Permit ID	Facility	Permitted Feature	Sector(s)	Subsector	Consolidated Discharge # (Limit Set)	Discharge Description	Parameter Code	Parameter Name	Symbol	Quality Value	Limit Type		Freq. of	Smpl.	Monitoring Period Start Date	Monitoring Period End Date	DMR Due Date
Permit ID	raciity	Teature	Sector(3)	Subscitor	(Linit Get)	D1 - Asphalt Paving and Roofing Materials and		1	7				,	.,,,,			
NMR050013	Los Alamos National Laboratory	043	l _D	D1	043-D1	Lubricant Manufacturing	00530 1 0	Solids, total suspended	<=	100	Maximum	mg/L	1/60	Gr	10/1/2019	11/30/2019	1/31/202
1414111050015	EGS / Harries (validital East-Inter)					1D - Asphalt Paving and Roofing Materials and								=			
NMR050013	Los Alamos National Laboratory	043	D	D1	043-1D	Lubricant Manufacturing	00556 1 0	Oil & Grease	<=	10	30-Day Average	mg/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/202
						1D - Asphalt Paving and Roofing Materials and									The second secon		
NMR050013	Los Alamos National Laboratory	043	D	D1	043-1D	Lubricant Manufacturing	00556 1 0	Oil & Grease	<=	15	Daily Maximum	mg/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/202
	, and a second s					1D - Asphalt Paving and Roofing Materials and							2.6		10 40 40 00 0		0.420.4222
NMR050013	Los Alamos National Laboratory	043	D	D1	043-1D	Lubricant Manufacturing	00400 1 0	pH	>=	6	Minimum	SU	1/YR	Gr	4/1/2019	11/30/2019	1/31/202
				D1	043.40	1D - Asphalt Paving and Roofing Materials and Lubricant Manufacturing	00400 1 0	au.	-		Maximum	SII.	1 (VD	C.,	4/1/2010	11/20/2010	1/21/202
NMR050013	Los Alamos National Laboratory	043	D	D1	043-1D	1D - Asphalt Paving and Roofing Materials and	00400 1 0	ρH	<=	9	Maximum	SU	1/YR	Gr	4/1/2019	11/30/2019	1/31/202
NINADOEOO12	Los Alamos National Laboratory	043	D	D1	043-1D	Lubricant Manufacturing	00530 1 0	Solids, total suspended	<=	15	30-Day Average	mg/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/202
NMR050013	Los Alamos National Laboratory	043	-		043-10	1D - Asphalt Paving and Roofing Materials and	0000010	Jones, total suspended		15	50 Day Average	1116/2	4/10	- Gi	4/1/2013	11/30/2013	1/31/2021
NMR050013	Los Alamos National Laboratory	043	D	D1	043-1D	Lubricant Manufacturing	00530 1 0	Solids, total suspended	<=	23	Daily Maximum	mg/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	043	D	D1	043-IW	IW - Impaired Water	51931 1 0	Adjusted Gross Alpha	<=		Maximum	pCi/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	043	D	D1	043-IW	IW - Impaired Water	01040 1 0	Copper, dissolved [as Cu]	<=		Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	043	D	D1	043-IW	IW - Impaired Water	39516 1 0	Polychlorinated biphenyls [PCBs]	<=	0.2	Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	043	D	D1	043-IW	IW - Impaired Water	71900 1 0	Mercury, total [as Hg]	<=		Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
	,																
NMR050013	Los Alamos National Laboratory	074	Α	A4	074-A4	A4 - Hardwood Dimension and Flooring Mills	81017 1 0	Chemical Oxygen Demand [COD]	<=	120	Maximum	mg/L	1/60	Gr	4/1/2019	5/31/2019	7/31/2019
NMR050013	Los Alamos National Laboratory	074	А	A4	074-A4	A4 - Hardwood Dimension and Flooring Mills	00530 1 0	Solids, total suspended	<=	100	Maximum	mg/L	1/60	Gr	4/1/2019	5/31/2019	7/31/2019
NMR050013	Los Alamos National Laboratory	074	А	A4	074-A4	A4 - Hardwood Dimension and Flooring Mills	81017 1 0	Chemical Oxygen Demand [COD]	<=	120	Maximum	mg/L	1/60	Gr	6/1/2019	7/31/2019	9/30/2019
NMR050013	Los Alamos National Laboratory	074	Α	A4	074-A4	A4 - Hardwood Dimension and Flooring Mills	00530 1 0	Solids, total suspended	<=	100	Maximum	mg/L	1/60	Gr	6/1/2019	7/31/2019	9/30/2019
NMR050013	Los Alamos National Laboratory	074	Α	A4	074-A4	A4 - Hardwood Dimension and Flooring Mills	81017 1 0	Chemical Oxygen Demand [COD]	<=		Maximum	mg/L	1/60	Gr	8/1/2019	9/30/2019	11/30/2019
NMR050013	Los Alamos National Laboratory	074	Α	A4	074-A4	A4 - Hardwood Dimension and Flooring Mills	00530 1 0	Solids, total suspended	<=	-	Maximum	mg/L	1/60	Gr	8/1/2019	9/30/2019	11/30/2019
NMR050013	Los Alamos National Laboratory	074	Α	A4	074-A4	A4 - Hardwood Dimension and Flooring Mills	81017 1 0	Chemical Oxygen Demand [COD]	<=		Maximum	mg/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	074	Α	A4	074-A4	A4 - Hardwood Dimension and Flooring Mills	00530 1 0	Solids, total suspended	<=		Maximum	mg/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	074	A	A4	074-IW	IW - Impaired Water	01104 1 0	Aluminum, total recoverable [as Al]	<=		Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	074	A	A4	074-IW	IW - Impaired Water	01040 1 0	Copper, dissolved [as Cu]	<=		Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	074	A	A4	074-IW	IW - Impaired Water	39516 1 0 00010 1 0	Polychlorinated biphenyls [PCBs]	<=		Maximum Maximum	ug/L	1/YR 1/YR	Gr Gr	4/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	074	A	A4	074-IW	IW Impaired Water	00010 1 0	Temperature, water deg. centigrade	4=	24	Maximum	deg-C	±/ 1K	61	4/1/2019	11/30/2019	1/31/2020
	Al Net	075	P	P1	075-IW	IW - Impaired Water	01104 1 0	Aluminum, total recoverable [as Al]	<=	1010	Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
	Los Alamos National Laboratory	075	P	P1	075-IW	IW - Impaired Water	01040 1 0	Copper, dissolved [as Cu]	<=		Maximum	ug/L	1/YR	Gr	4/1/2019		1/31/2020
NMR050013 NMR050013	Los Alamos National Laboratory Los Alamos National Laboratory	075	P	P1	075-IW	IW - Impaired Water	39516 1 0	Polychlorinated biphenyls [PCBs]	<=		Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
	Los Alamos National Laboratory	075	P	P1	075-IW	IW - Impaired Water	00010 1 0	Temperature, water deg. centigrade	4=		Maximum	deg C	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
141411050015	Los vilamos riodonar caparacary	070									Charles produced in the Collection of the Collec		5-1000				
NMR050013	Los Alamos National Laboratory	076	AA	AA1	076-11	11- Fabricated Metal Products, except Coating	01104 1 0	Aluminum, total recoverable [as Al]	<=	1010	Maximum	ug/L	1/60	Gr	4/1/2020	5/31/2020	7/31/2020
-	Los Alamos National Laboratory	076	AA	AA1	076-11	11- Fabricated Metal Products, except Coating	01045 1 0	Iron, total [as Fe]	<=	1000	Maximum	ug/L	1/60	Gr	4/1/2020	5/31/2020	7/31/2020
	Los Alamos National Laboratory	076	AA	AA1	076-11	11- Fabricated Metal Products, except Coating	51450 1 0	Nitrite Plus Nitrate Total	<=	0.68	Maximum	mg/L	1/60	Gr	4/1/2020	5/31/2020	7/31/2020
	Los Alamos National Laboratory	076	AA	AA1	076-11	11- Fabricated Metal Products, except Coating	01090 1 0	Zinc, dissolved [as Zn]	<=	99	Maximum	ug/L	1/60	Gr	4/1/2020	5/31/2020	7/31/2020
	Los Alamos National Laboratory	076	AA	AA1	076-11	11- Fabricated Metal Products, except Coating	01104 1 0	Aluminum, total recoverable [as Al]	<=	1010	Maximum	ug/L	1/60	Gr	6/1/2019	7/31/2019	9/30/2019
	Los Alamos National Laboratory	076	AA	AA1	076-11	11- Fabricated Metal Products, except Coating	01045 1 0	iron, total [as Fe]	<=		Maximum	ug/L	1/60	Gr	6/1/2019	7/31/2019	9/30/2019
NMR050013	Los Alamos National Laboratory	076	AA	AA1	076-11	11- Fabricated Metal Products, except Coating	51450 1 0	Nitrite Plus Nitrate Total	<=	0.68	Maximum	mg/L	1/60	Gr	6/1/2019	7/31/2019	9/30/2019
NMR050013	Los Alamos National Laboratory	076	AA	AA1	076-11	11- Fabricated Metal Products, except Coating	01090 1 0	Zinc, dissolved [as Zn]	<=		Maximum	ug/L	1/60	Gr	6/1/2019	7/31/2019	9/30/2019
NMR050013	Los Alamos National Laboratory	076	AA	AA1	076-11	11- Fabricated Metal Products, except Coating	01104 1 0	Aluminum, total recoverable [as Al]	<=		Maximum	ug/L	1/60	Gr	8/1/2019	9/30/2019	
NMR050013	Los Alamos National Laboratory	076	AA	AA1	076-11	11- Fabricated Metal Products, except Coating	01045 1 0	Iron, total [as Fe]	<=		Maximum	ug/L	1/60	Gr	8/1/2019	9/30/2019	
4 line and the second	Los Alamos National Laboratory	076	AA	AA1	076-11	11- Fabricated Metal Products, except Coating	51450 1 0	Nitrite Plus Nitrate Total	<=		Maximum	mg/L	1/60	Gr	8/1/2019	9/30/2019	11/30/2019
	Los Alamos National Laboratory	076	AA	AA1	076-11	11- Fabricated Metal Products, except Coating	01090 1 0	Zinc, dissolved [as Zn]	<=		Maximum	ug/L	1/60	Gr	8/1/2019	9/30/2019	
NMR050013	Los Alamos National Laboratory	076	AA	AA1	076-11	11- Fabricated Metal Products, except Coating	0110410	Aluminum, total recoverable [as Al]	<=		Maximum	ug/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	076	AA	AA1	076-11	11- Fabricated Metal Products, except Coating	01045 1 0	Iron, total [as Fe]	<=		Maximum	ug/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
NMR050013		076	AA	AA1	076-11	11- Fabricated Metal Products, except Coating	51450 1 0 01090 1 0	Nitrite Plus Nitrate Total	<=		Maximum	mg/L	1/60	Gr	10/1/2019	11/30/2019	1/31/2020
NMR050013	Los Alamos National Laboratory	076	AA	AA1	076-11	11- Fabricated Metal Products, except Coating		Zinc, dissolved [as Zn]	<=		Maximum	ug/L	1/60 1/YR	Gr	10/1/2019 4/1/2019		1/31/2020
NMR050013	Los Alamos National Laboratory	076	AA	AA1	076-IW	IW - Impaired Water	01104 1 0	Aluminum, total recoverable [as Al]	<=	10101	Maximum	ug/L		Gr	///////////////////////////////////////	11/30/2019	

										The same of the sa	paired Waters Lin .6.4.900 NMAC [N	CONTRACTOR OF STREET					
		Permitted		Subsector	Consolidated Discharge # (Limit Set)		Parameter Code	Parameter Name	Symbol	Quality Value	Limit Type	Units	Freq. of		_	Monitoring Period End Date	DMR Due Date
Permit ID	Facility	Feature	Sector(s)	Subsector	(Limit Set)	Discharge Description	Code	Parameter (value	Зуппоп	Value	Limit Type	Ullits	Allalysis	Type			
NMR050013	Los Alamos National Laboratory	076	AA	AA1	076-IW	IW - Impaired Water	39516 1 0	Polychlorinated biphenyls [PCBs]	<=	0.2	Maximum	ug/L	1/YR	Gr	4/1/2019	11/30/2019	1/31/2020
Additions to N	OI and NetDMR are in BOLD .																
Deletions from	NOI and NetDMR are indicated by	strikethrough	-														
	dicates no change to NOI or NetDM																

ATTACHMENT 2: SWPPP AMENDMENTS

Date	Plan Section	Reason for Amendment	Amendment
Jan 2019	All	New MSGP Plan for new	New MSGP Plan for Triad, LLC (replacing
		Laboratory Contract.	LANS, LLC.
Jan 2020	All	Implementation of the new	Inserted new template language to
		SWPPP template as required	standardize all MSGP SWPPPs and
		by EPC-CP-QP-2110, MSGP	inserted all required documentation for
		Stormwater Pollution	the yearly revision.
		Prevention Plan Preparation	
		and Maintenance. Also	
		included all inspections,	
		assessments and reports	
		required for the yearly	
		update.	

MSGP Stormwater Pollution Prevention Plan Revision 1, January 2020

ATTACHMENT 3: CERTIFICATION OF NO UNAUTHORIZED STORMWATER DISCHARGES

Unauthorized Non-Storm Water Discharge Assessment and Certification

Facility: TA-03-22 F	ower & Steam Plant			-
Outfalls (including SIOs*) or Other Onsite Drainage Points Observed During the Assessment		Description of Assessment Criterion Used		ed Actions to Control or the Discharge
005 (006)	None	Visual Inspection	N/A	
009 (007, 008, 010)	None	Visual Inspection	N/A	
012 (011)	None	Visual Inspection	N/A	
Assessor:				
Print Name: Jillian E. Burgin	Signature:	Title: DEP, CISEC		Date Assessed: 12/18/18
that qualified personnel properly responsible for gathering the info submitting false information, incl	rtify under penalty of law that this document and all attachments gathered and evaluated the information contained therein. Base ormation, the information contained is, to the best of my knowled uding the possibility of fine and imprisonment for knowing violation.	d on my inquiry of the person o ge and belief, true, accurate, an ons.	r persons who manage the syster	n, or those persons directly e are significant penalties for
Print Name: Pussell Sto	re Cusul Sur	Title: 254 Magr 4	DESH-UTS	Date Certified:

^{*}SIO = Substantially Identical Outfall

TA-03-22 Power and Steam PlantMSGP Stormwater Pollution Prevention Plan

Revision 1, January 2020

ATTACHMENT 4: DULY AUTHORIZED SIGNATORY MEMORANDUM



Environmental Protection & Compliance Division

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

Symbol: EPC-DO: 18-453

LAUR: 18-31574

DEC 1 1 2018

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

Subject: Notification of Triad National Security, LLC, Signatory Officials and

Authorized Representatives for NPDES Permits

Dear Ms. Idsal:

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

The positions of Associate Laboratory Director of Environment, Safety, Health & Quality and Safeguards & Security (ESHQSS), and Division Leader of the Environmental Protection & Compliance Division (EPC-DO) are identified as Triad's primary signatory officials under 40 CFR 122.22(a) for certifying and signing permit applications (including Notice of Intents (NOIs)) required under the LANL NPDES Industrial Point Source Outfall Permit (Permit No. NM0028355), the NPDES Storm Water Construction General Permit, the NPDES Multi-Sector General Permit (Permit No. NMR050013), and the NPDES Pesticide General Permit (Permit No. NMG87B113).

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



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

NPDES Industrial Point Source Outfall Permit (No. NM0028355)

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

NPDES Construction General Permit:

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

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

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

NPDES Pesticide General Permit (No. NM687A041)

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

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

Sincerely.

Enrique Torres Division Leader

Environmental Protection & Compliance Division

ET/TWL/MTS:jdm



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

Attachment(s): None.

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



TA-03-22 Power and Steam Plant

MSGP Stormwater Pollution Prevention Plan Revision 1, January 2020

ATTACHMENT 5: DISCHARGE MONITORING REPORTS

Permitted Perm	DIVIN COPY OF	Record																				
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Major:	No			F	Permittee A	ddress	s:			63 MS k DS, NM				Fac	ility Loca	tion:		OX 1663 ALAMOS		37545	
Permitted Feature		nal Outfall			Discharge:			012-O		ric Gen	erating I	Facilities									
Report Dates & Si	tatus			,																	
Monitoring Period	l: From	06/01/19 to	07/31/19	0	OMR Due D	ate:		09/30/	19					Sta	tus:		NetD	MR Vali	dated		
Considerations for	r Form Comple	etion												•							
Principal Executiv	e Officer																				
First Name:				1	Γitle:									Tel	ephone:						
Last Name:														•							
No Data Indicator	(NODI)																				
Form NODI:																					
Parameter	Monitoring Loca	tion Season	# Param. NODI			Quantity	y or Loadi	ng					Quali	ity or Cond	entration				# of Ex.	Frequency of Analysis	Sample Type
Code Name				01-		Value 1	Qualifier 2	Value 2	Units	Qualifier	1 Value 1	Qualifier 2	Value 2	Qualifier 3	3	Value 3		Units			
01045 Iron, total [as Fe]	1 - Effluent Gross	0		Sample Permit Re										<=	1000 MAXI	MUM		28 - ug/L		01/60 - Once Every 2 Mont	hs GR - GRAB
				Value NOI											F - Insuffici	ent Flow for				,	
Submission Note																					
If a parameter row	does not contain	n any value	s for the San	nple nor E	Effluent Trac	ding, the	en none d	of the fol	llowin	g fields	will be s	submitted f	for that	row: Uni	ts, Numbe	r of Excur	sions, Fr	equency	of Ana	alysis, and Sample Typ	e.
Edit Check Errors	;																				
No errors.																					
Comments																					
LA-UR-19-28656.	Automated samp	pler tripped	but there wa	s insuffici	ent flow for	sample	collection	n.													
Attachments																					
No attachments.																					
Report Last Save	d By																				
TRIAD NATIONAL	SECURITY LL	.C																			
User:			leslie@	lanl.gov																	
Name:			Leslie	Dale																	
E-Mail:			leslie@	lanl.gov																	
Date/Time:			2019-08	8-28 11:0	00 (Time Z	one: -05	5:00)														
Report Last Signe	ed By																				
User:			TERRIL	LLEMKE																	
Name:			Terrill	Lemke																	
E-Mail:			tlemke@	@lanl.gov																	
Date/Time:			2019-08	8-28 11:0	7 (Time Z	one: -05	5:00)														

Permit															_							
Permit #	:	NM	R050013			Permitte	e:		TRIAD	NATION	IAL SE	ECUR	ITY LL	C	Fac	ility:	l	OS ALAN	IOS NA	TIONAL LABOR	ATORY	
Major:		No				Permitte	e Addres	s:		OX 1663 I LAMOS,					Fac	ility Loca	ation: F	PO BOX 1 LOS ALAN		И 87545		
Permitte	d Feature:	005 Exte	ernal Outfa	all		Dischar	ge:		005-O1 Steam	1 Electric	Gener	rating I	Facilitie	s								
Report L	Dates & Statu	s																				
Monitori	ng Period:	Fro	m 08/01/1	9 to 09/	30/19	DMR Du	e Date:		11/30/1	19					Stat	us:	ı	NetDMR V	/alidate	d		
Conside	erations for Fe	orm Con	mpletion																			
Principa	I Executive C	Officer																				
First Na	me:					Title:									Tele	ephone:						
Last Nai	ne:																					
No Data	Indicator (NO	ODI)																				
Form NO																						
Pa Code	rameter Name	Monitorin	ng Location	Season #	Param. NOD		Qualifier 1	Quantity			nits Ou	ıalifior	1 Value			Ouglifier		Units	# of Ex.	Frequency of A	nalysis	Sample Type
						Sample	guanner 1	value i d	damici 2	value 2 o	iiito Qu	amici	Value	quamici	z value z	Qualifici	54900	28 - ug/L		01/60 - Once Every	2 Months	GR - GRAB
X 01045 ^{II}	ron, total [as Fe]	1 - Effluen	t Gross	0		Permit Req. Value NODI										<=	1000 MAXIMU	JM 28 - ug/L	. 1	01/60 - Once Every	2 Months	GR - GRAB
Submis	sion Note					value itebi																
If a para	meter row doe	s not co	ntain any v	/alues fo	or the Sampl	le nor Efflue	nt Trading	, then no	one of th	ne followi	ng field	ds will	be sub	mitted for	that ro	w: Units,	Number of E	xcursions,	Freque	ncy of Analysis,	and San	nple Type.
Edit Che	eck Errors																					
	Parameter																					
Code	Name	;	Monito	oring Lo	cation		F	ield			Тур	pe					Description				Ackr	nowledge
01045	Iron, total [as	Fe]	1 - Effluen	t Gross	C	Quality or Cor	centration	Sample \	/alue 3		Soft	Т	he prov	ided samp	le value	is outside	the permit lim	it. (Error Co	ode: 1)			Yes
Comme	nts																					
LA-UR-1	9-30860. The	concent	ration of Fe	e is mat	hematically	certain to ex	ceed the b	benchma	ark.													
Attachm	ents																					
No attachm																						
	Last Saved By																					
	IATIONAL SE	CURITY	LLC																			
User:					leslie@lanl.ç																	
Name:					Leslie Dale																	
E-Mail:					leslie@lanl.ç		7	05-00\														
Date/Tim				2	2019-10-25	09:10 (1in	ne ∠one: -(05:00)														
	ast Signed E	sy		_	TEDDULLE	MIZE																
User:					TERRILLLE Terrill Lem																	
Name: E-Mail:					tlemke@lan																	
Date/Tim	ıe.				uemke@ian 2019-10-25	_	ne Zone: -(05:00)														
Date/ IIII				4	2010 10-20	00.02 (1111	10 ZUNG(00.00)														

			-																					
Permit																								
Permit #	# :	NM	R050013			Permit	tee:		TRIAD	NOITAN C	IAL SEC	CURITY	LLC	F	acility	:		LOS AL	AMO	S NAT	TIONAL	LABORA	ATORY	
Major:		No				Permit	tee Addres	ss:		OX 1663 N ALAMOS,				F	acility	Locat	tion:	PO BOX LOS AL			1 87545			
Permitte	ed Feature:	009 Exte) ernal Outfa	all		Discha	rge:		009-O Steam)1 n Electric (Generat	ing Fa	cilities											
Report	Dates & Status	s				•																		
Monitor	ing Period:	Fro	m 08/01/1	9 to 09/3	30/19	DMR D	ue Date:		11/30/	/19				8	Status:			NetDMF	R Vali	dated	ŀ			
Conside	erations for Fo	orm Cor	mpletion																					
Principa	al Executive O	fficer												•										
First Na	me:					Title:								1	Γelepho	one:								
Last Na	me:																							
No Data	Indicator (NC	DI)																						
Form N	ODI:																							
Pa Code	Name	Monitorin	ng Location	Season #	Param. NOD	1	Ouglifier 1		y or Loadi	ing 2 Value 2 Ur	nite Oual	ifior 1 V	alue 1 Oua	Quality o				3 Uni		of Ex.	Freque	ency of An	alysis	Sample Type
Code	Name					Sample	Qualifier	value i	Qualifier 2	z value z Oi	ilits Quai	iller i v	alue i Qua	illei Z val	ue z Que		3220	28 - u		С	01/60 - Or	nce Every 2	Months	GR - GRAB
X 01045	ron, total [as Fe] 1	I - Effluen	nt Gross	0		Permit Red									<=		1000 MAXIN	MUM 28 - u	g/L 1	0	01/60 - Or	ce Every 2	Months	GR - GRAB
Submis	sion Note					Value NOE	<u>) </u>																	
	meter row does	s not co	ntain any v	values fo	r the Samol	le nor Efflu	ent Tradin	n then n	none of th	he followin	na fields	will he	submitte	d for that	t row: U	nits N	Jumber of	Excursion	ns Fr	ediler.	ncy of A	nalvsis a	and Sam	nle Tyne
	eck Errors	3 1101 001	man any v	values le	i ino odmpi	o nor Ema	ioni maani	g, triori i	ione or ti	ric ioliowii	ng noide	, will be	Judimilio	a for that	t tow. o	11110, 1	tarribor or	EXOCIOIO	10, 11	oquoi	loy of 7	rialyolo, c	and Odn	ipio Typo.
	Parameter		Monite	oring Lo	cation		1	Field			Туре						Description	n					Ackn	owledge
Code	Name																							
01045	Iron, total [as F	Fe]	1 - Effluen	t Gross	C	Quality or Co	oncentration	Sample	Value 3		Soft	The	provided s	sample va	lue is ou	ıtside t	he permit li	mit. (Error	Code	: 1)				Yes
Comme	nts																							
LA-UR-1	19-30860. The	concent	ration of F	e is math	nematically	certain to	exceed the	benchm	nark.															
Attachn No attachn																								
Report	Last Saved By	′																						
TRIAD	NATIONAL SE	CURITY	LLC																					
User:					eslie@lanl.g	-																		
Name:					eslie Dale																			
E-Mail:					eslie@lanl.g																			
Date/Tin				2	2019-10-25	09:10 (T	ime Zone:	-05:00)																
	Last Signed B	У																						
User:					ΓERRILLLEI																			
Name:					Terrill Lem																			
E-Mail:					lemke@lanl	_	_																	
Date/Tin	ne:			2	2019-10-25	09:32 (T	ıme ∠one:	-05:00)																

Permit																					
Permit #:	NMR050	013		Pe	ermittee:		TRIAD	10ITAN	NAL SEC	URITY LLC	;	Fac	ility:		LOS	ALAMOS	NATIC	DNAL LA	BORATOR	Υ	
Major:	No			Pe	ermittee Add	dress:			MS K490 5, NM 8754			Fac	ility Loca	ation:		OX 1663 ALAMOS		7545			
Permitted Feature:	012 External	Outfall		Di	ischarge:		012-01 Steam		: Generati	ng Facilities	5										
Report Dates & Stat	us																				
Monitoring Period:	From 08	3/01/19 to	09/30/19	DI	MR Due Dat	te:	11/30/1	19				Sta	tus:		NetD	MR Valid	dated				
Considerations for I	Form Completi	on		·								·									
Principal Executive	Officer																				
First Name:				Tit	tle:							Tele	ephone:								
Last Name:																					
No Data Indicator (N	IODI)																				
Form NODI:																					
Parameter M	onitoring Location	n Season #	Param. NODI		Q	uantity or Load	ding				Qual	ity or Cond	entration				# of Ex.	Freque	ency of Analy	sis S	Sample Type
Code Name					Qualifier 1 Va	alue 1 Qualifier	2 Value 2 U	Jnits Qua	alifier 1 Val	ue 1 Qualifie	r 2 Value 2	Qualifier 3	3	Value 3		Units					
11045 Iron, total [as Fe] 1	- Effluent Gross	0	-	Sample Permit Req. Value NODI								<=	1000 MAX	IMUM cient Flow for		28 - ug/L	C	01/60 - Or	nce Every 2 Mo	onths G	GR - GRAB
Submission Note																					
If a parameter row do	es not contain a	ny values	for the Sam	nple nor Eff	fluent Tradin	ng, then none	of the foll	lowing fi	ields will t	oe submitte	d for that	row: Unit	ts, Numbe	er of Excurs	sions, Fr	equency	of Anal	lysis, an	d Sample T	уре.	
Edit Check Errors																					
No errors.																					
Comments																					
LA-UR-19-30859																					
Attachments																					
lo attachments.																					
Report Last Saved E	3 <i>y</i>																				
TRIAD NATIONAL S	ECURITY LLC																				
User:			leslie@l	lanl.gov																	
Name:			Leslie	Dale																	
E-Mail:			leslie@l	lanl.gov																	
Date/Time:			2019-10	0-25 09:10) (Time Zon	ne: -05:00)															
Report Last Signed	Ву																				
User:			TERRIL	LLEMKE																	
Name:			Terrill	Lemke																	
E-Mail:			tlemke@	@lanl.gov																	
Date/Time:			2019-10	n-25 ng·32	7 (Time Zon	ne: -05:00)															

Permit																	ALAMOS NATIONAL LABORATORY						
Permit #			R050013			Permitte			NATIONA		RITYL	LC.	Fac	_				ATIONA	AL LABOR	ATORY			
Major:		No				Permitte	ee Address:		X 1663 MS AMOS, N		5		Fac	ility Loca		PO BOX 1663 LOS ALAMOS, NM 87545							
Permitte	d Feature:	005 Exte	i ernal Outfa	all		Discharg	ge:	005-O1 Steam B	Electric Ge	enerating	g Facili	ties											
Report L	ates & Statu	IS				·																	
Monitori	ng Period:	Fro	m 10/01/1	19 to 11/3	30/19	DMR Du	e Date:	01/31/2	0				Stat	tus:	N	NetDMR V	'alidate	ed					
Conside	rations for F	orm Con	mpletion																				
Principa	l Executive (Officer																					
First Nar	ne:					Title:							Tele	ephone:									
Last Nar	ne:																						
No Data	Indicator (N	ODI)																					
Form NC	DI:																						
	ameter	Monitorin	ng Location	Season #	Param. NOD			ty or Loading		- Ovelitie	n 4 Valu		_	oncentration		Huita	# of Ex.	Freq	uency of A	nalysis	Sample Type		
Code	Name					Sample	Qualifier 1 Value 1	Qualifier 2	value 2 Unit	S Quaime	er i vaiu	ie i Qualifier z	z value z	Qualifier .	3 Value 3 4610	Units 28 - ug/L		01/60 -	Once Every	2 Months	GR - GRAB		
X ₀₁₀₄₅ Ir	on, total [as Fe]	1 - Effluen	t Gross	0		Permit Req. Value NODI								<=	1000 MAXIMU	M 28 - ug/L	1	01/60 -	Once Every	2 Months	GR - GRAB		
Submiss	sion Note					14.4011021																	
If a parar	neter row doe	es not co	ntain any	values fo	r the Sampl	le nor Efflue	nt Trading, then	none of the	e following	fields w	/ill be s	ubmitted for	that ro	w: Units,	Number of Ex	xcursions,	Freque	ency of	Analysis,	and San	ple Type.		
Edit Che	ck Errors																						
	Parameter								_														
Code	Nam	е	Monit	oring Lo	cation		Field			Type					Description			Ackn	owledge				
01045	Iron, total [as	Fe]	1 - Effluer	nt Gross	C	Quality or Con	ncentration Sample	e Value 3		Soft	The pr	ovided samp	le value	is outside	the permit limi	t. (Error Co	de: 1)				Yes		
Comme	nts																						
LA-UR-1	9-32649. The	average	concentra	ation of F	e is mather	natically cer	tain to exceed th	ne benchma	ark value.														
Attachm	ents																						
No attachm																							
Report L	ast Saved B	Sy.																					
TRIAD N	ATIONAL SI	ECURITY	LLC																				
User:					eslie@lanl.g	-																	
Name:					_eslie Dale																		
E-Mail:					eslie@lanl.g		ov 16:30 (Time Zone: -06:00)																
Date/Tim				2	2019-12-19	16:30 (Tim	ne Zone: -06:00)																
-	ast Signed I	By																					
User:					ΓERRILLLEI																		
Name:					Terrill Lem																		
E-Mail:					lemke@lanl	_	7-n-: 00:00\																
Date/Tim	e:			2	2019-12-19	16:39 (11m	16:39 (Time Zone: -06:00)																

Permit																								
Permit #	# :	NM	R050013			Perm	ittee:	TRIA	AD NATION	IAL SEC	JRIT	TY LLC		Faci	ility:		LOS AL	AMOS N	IATIC	NAL LABO	RATORY			
Major:		No				Perm	ittee Address:		BOX 1663 N ALAMOS,					Faci	ility Loca		PO BOX 1663 LOS ALAMOS, NM 87545							
Permitte	ed Feature:	009 Exte	ernal Outfa	all		Disch	arge:	009- Stea	· O1 am Electric (Generatir	ng Fa	acilities												
Report	Dates & Statu	IS				·																		
Monitor	ing Period:	Fro	m 10/01/1	9 to 11/	30/19	DMR	Due Date:	01/3	01/31/20						us:		NetDMR	Validat	ted					
Conside	erations for F	orm Con	npletion																					
Principa	al Executive (Officer				•																		
First Na	me:					Title:								Tele	phone:									
Last Na	me:																							
No Data	Indicator (N	ODI)																						
Form N																								
Pa Code	rameter Name	Monitorin	ng Location	Season #	# Param. NO	DI		antity or Loa		nite Oualif	ior 1	Value 1 C			Ouglifier 3		Unit	# of E	x. F	Frequency of	Analysis	Sample Type		
Code	Name					Sample		de i Qualifie	1 Z Value Z OI	ilitə Qualii	ici i	value i G	qualifier 2	r 2 Value 2 Qualifier 3		3620	ue 3 Units 28 - ug/L		01/6	60 - Once Ever	/ 2 Months	GR - GRAB		
X 01045 ^I	ron, total [as Fe]	1 - Effluen	t Gross	0		Permit R								<=	1000 MAXIMI	JM 28 - uç	_J /L 1	01/6	60 - Once Ever	/ 2 Months	GR - GRAB			
Suhmis	sion Note					Value NC)DI																	
		es not co	ntain anv	values fo	or the Sam	ple nor Eff	luent Trading, th	en none of	the following	na fields	will b	oe subm	itted for	that rov	w: Units.	Number of E	xcursion	s. Fregu	Jency	of Analysis	. and Sar	nple Type.		
	eck Errors	70 1101 001	man any	valuoo id	or the cam	pio noi Em	idoni Trading, in	011 110110 01		ng noido		o cabiii	into a ror	inat ro	v. Omio,		.xouroioi	0, 1 1090	uonoy	, or , indivole	, and car	ipio Typo.		
	Parameter		Monit	oring Lo	cation		Field	d		Туре						Description					Ackr	owledge		
Code	Name	е																						
01045	Iron, total [as	Fe]	1 - Effluer	nt Gross		Quality or 0	Concentration San	mple Value 3	3	Soft	Th	e provide	ed sample	e value	is outside	the permit lim	nit. (Error	Code: 1)				Yes		
Comme	nts																							
LA-UR-1	9-32649																							
Attachn No attachn																								
Report	Last Saved B	У																						
TRIAD I	NATIONAL SE	CURITY	LLC																					
User:				I	leslie@lan	l.gov																		
Name:				I	Leslie Da	ale																		
E-Mail:				I	leslie@lan	l.gov																		
Date/Tin	ne:			:	2019-12-1	9 16:30 (Time Zone: -06:	00)																
Report	Last Signed L	3 <i>y</i>																						
User:				•	TERRILLL	EMKE																		
Name:					Terrill Le																			
E-Mail:					tlemke@la																			
Date/Time: 2019-12-19						9 16:39 (16:39 (Time Zone: -06:00)																	

DIVIR Copy of	Record																			
Permit																				
Permit #:	NMR0500	13		Permi	ttee:		TRIA	AD NATI	ONA	AL SECUR	RITY LL	.C	Fa	cility:		LOS AL	_AMC	OS NA	TIONAL LABORATOR	Y
Major:	No			Permi	ttee Addr	ess:		BOX 166 ALAMO		IS K490 NM 87545			Fa	cility Loc	cation:	PO BO LOS AL			M 87545	
Permitted Feature:	012 External O	outfall		Disch	arge:		012- Stea		ic G	Senerating	Faciliti	es								
Report Dates & Sta	tus			·																
Monitoring Period:	From 10/0	1/19 to 1	1/30/19	DMR I	Due Date:		01/3	1/20					Sta	atus:		NetDM	R Va	lidate	d	
Considerations for	Form Completion	on																		
Principal Executive	Officer																			
First Name:				Title:									Те	lephone:	:					
Last Name:													-							
No Data Indicator (NODI)																			
Form NODI:																				
	Monitoring Location	Season #	Param. NODI				y or Loadi						-	oncentratio				of Ex.	Frequency of Analysis	Sample Type
Code Name				Sample	Qualifier 1	Value 1	Qualifier 2	Value 2 U	Jnits	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier	3 Value 3	Uni	ts			
01045 Iron, total [as Fe] 1	- Effluent Gross	0		Permit Req.										<=	1000 MAXIM	UM 28 - u	g/L		01/60 - Once Every 2 Months	GR - GRAB
				Value NODI											C - No Disch	arge				
Submission Note																				
If a parameter row do Type.	oes not contain a	ny values	s for the Sam	ple nor Eff	luent Trac	ding, the	en none c	of the follo	owir	ng fields w	ill be su	ubmitted fo	or that	row: Unit	ts, Number	of Excurs	ions,	Frequ	uency of Analysis, and S	Sample
Edit Check Errors																				
No errors.																				
Comments																				
LA-UR-19-32648																				
Attachments																				
No attachments.																				
Report Last Saved																				
TRIAD NATIONAL S	SECURITY LLC																			
User:			leslie@lan	.gov																
Name:			Leslie Da	ale																
E-Mail:			leslie@lan	.gov																
Date/Time:			2019-12-19	9 16:10 (Time Zone	e: -06:0	0)													
Report Last Signed	l By																			
User:			TERRILLL	EMKE																
Name:			Terrill Le	mke																
E-Mail:			tlemke@la	nl.gov																
Date/Time:			2019-12-19	9 16:39 (Time Zone	e: -06:0	0)													

Permit																					
Permit	#: NN	MR050013			Permit	tee:		TRIAI	D NATIONAL SE	CURITY I	LLC		Facility:		LOS AL	AMOS NAT	TIONAL LABO	RATORY			
Major:	No)			Permit	tee Address	S:		OX 1663 MS K4 ALAMOS, NM 87				Facility Lo	ocation:	PO BOX LOS AL	(1663 AMOS, NM	1 87545				
Permitt	ed Feature: 00 Ex	5 cternal Outfa	all		Discha	arge:		005-IN	W red Water												
Report	Dates & Status							·													
Monito	ring Period: Fro	om 12/01/1	8 to 11/30/1	9	DMR D	Due Date:		01/31	/20				Status:		NetDMF	R Validated	ı				
	erations for Form Con	npletion											1								
	pased upon the alternate		g season of	April 1 thi	rough Nove	ember 30.															
	al Executive Officer				J																
First Na					Title:								Telephone	e:							
Last Na													1								
	a Indicator (NODI)																				
Form N																					
7 0111111	Parameter	Monito	oring Location	Season #	Param. NOE	OI		Quant	ity or Loading				Quality or 0	Concentration	on	#	of Ex. Frequer	ncy of Analysi	s Sample Ty		
Code	Name						Qualifier 1		Qualifier 2 Value	2 Units Qua	alifier 1	Value 1	Qualifier 2 Value	2 Qualifier 3	Value 3	Units					
V			. •			Sample									15.9	28 - ug/L	01/YR - A		GR - GRAE		
X 01040	Copper, dissolved [as Cu]	1 - Effic	uent Gross	0		Permit Req. Value NODI								<=	7.0 MAXIMUM	28 - ug/L 1	01/YR - /	Annual	GR - GRAE		
						Sample									18300.0	28 - ug/L	01/YR	Annual	GR - GRAE		
X 01104	Aluminum, total recoverable	1 - Efflu	uent Gross	0		Permit Req.								<=	1010.0 MAXIMU	M 28 - ug/L 1	01/YR	Annual	GR - GRAE		
						Value NODI Sample								<	0.037	28 - ug/L	01/YR	Δnnual	GR - GRAE		
39516	Polychlorinated biphenyls [P	CBs] 1 - Efflu	uent Gross	0		Permit Req.									0.2 MAXIMUM	28 - ug/L (GR - GRAE		
						Value NODI															
Submis	ssion Note																				
If a para	ameter row does not cor	ntain any va	alues for the	Sample r	nor Effluent	t Trading, the	en none c	of the fo	ollowing fields wi	ll be subm	nitted	for that	row: Units, Num	nber of Exc	cursions, Freq	uency of A	nalysis, and S	ample Type			
Edit Ch	eck Errors																				
	Parameter																				
Code	Name		Monito	ring Loca	tion		Fi	eld		Туре				De	scription			Ack	nowledge		
01040	Copper, dissolved [as 0	Cu]	1 - Effluent	Gross	Qı	uality or Conc	entration S	Sample	Value 3	Soft	The	provide	d sample value is	outside the	permit limit. (E	rror Code: 1)		Yes		
01104	Aluminum, total recove	rable	1 - Effluent	Gross	Qı	uality or Conc	entration S	Sample	Value 3	Soft	The	provide	d sample value is	outside the	permit limit. (E	rror Code: 1)		Yes		
Comme	ents																				
	19-32659. The impaireding will be discontinued			d Cu exce	eded the N	New Mexico	Water Qu	ality S	tandard. The imp	paired wat	ter pol	llutant to	otal Aroclor was	not detec	ted in stormwa	ater dischai	rge from this o	outfall therefo	ore annual		
Attachi	ments																				
No attachi	ments.																				
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TRIAD	NATIONAL SECURITY	LLC																			
User:			lesl	ie@lanl.g	jov																
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E-Mail:			lesl	ie@lanl.g	jov																
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Name:		rill Lem	ke																		
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Permit																						
Permit	#: I	NMR050	0013		Pern	nittee:		TRIAD	OITAN C	NAL SEC	URITY I	LLC		Facility:		LOS ALA	MOS NA	TIONA	L LABORATOR	1		
Major:	I	No			Pern	nittee Addres	s:		OX 1663 ALAMOS,					Facility I	ocation:	PO BOX LOS ALA		M 8754	5			
Permit		009 External	Outfall		Disc	harge:		009-IV	V red Water	r												
Report	Dates & Status				-																	
-		From 12	2/01/18 to 11/3	0/19	DMR	Due Date:		01/31/	/20					Status:		NetDMR	Validate	d				
Consid	lerations for Form C	ompleti	on		'																	
Yearly	based upon the altern	ate mon	itoring season	of April 1 th	rough No	ovember 30.																
Princip	al Executive Officer																					
First N	ame:				Title	:								Telepho	ne:							
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No Da	ta Indicator (NODI)				·																	
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	Parameter		Monitoring Locat	ion Season #	Param. N	ODI			ty or Loadi						Concentrat			# of Ex.	Frequency of Ana	ysis Sam	ple Typ	
Code	Name					Sample	Qualifier 1	Value 1	Qualifier 2	2 Value 2 L	Jnits Qua	lifier 1 Va	lue 1 Qu	alifier 2 Value	e 2 Qualifier	3 Value 3 11.9	Units 28 - ug/L		01/YR - Annual	CP	GRAB	
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V						Sample										6550.0	28 - ug/L		01/YR - Annual		GRAB	
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39516	Polychlorinated biphenyls	[PCBs] 1	- Effluent Gross	0		Permit Req.									<=	0.2 MAXIMUM	28 - ug/L	0	01/YR - Annual	GR -	GRAB	
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	ameter row does not d	ontain a	ariy values for t	ie Sample	nor Enlu	ent frauing, tri	en none (or the to	niowing in	eius wiii i	subii	iillea ioi	that rov	w. Onns, No	imber of Ex	xcursions, Frequ	ency or F	Analysis	s, and Sample Ty	pe.		
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01104	Aluminum, total reco	verable	1 - Efflue	ent Gross		Quality or Cond	entration s	Sample \	Value 3		Soft	The pro	ovided sa	ample value	is outside th	ne permit limit. (Err	or Code:	1)		Yes		
01040	Copper, dissolved [as	s Cu]	1 - Efflue	ent Gross		Quality or Cond	entration	Sample \	Value 3		Soft	The pro	ovided sa	ample value	is outside th	ne permit limit. (Err	or Code:	1)		Yes		
Comm	ents																					
	.19-32659. The impair			and Cu exc	eeded the	e New Mexico	Water Qu	uality St	tandard. T	The impa	ired wat	er pollut	ant tota	l Aroclor wa	s not dete	cted in stormwat	er discha	arge fro	om this outfall the	refore an	nual	
Attach	ments																					
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User:			le	eslie@lanl.	gov																	
Name:			L	eslie Dal	е																	
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NMR050013

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Permittee:

Permittee Address:

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Yearly I	based upon the alterna	te mon	nitoring	season of	April 1 th	rough No	vember 30.														
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No Dat	ta Indicator (NODI)																				
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	Parameter		Monitori	ing Location	Season #	Param. NO	ODI	(Quantity	y or Loadi	ng				Quality	or Conce	entration	# o	f Ex. Frequency o	f Analysi	s Sample Type
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1104	Aluminum, total recoverable	е	1 - Efflue	nt Gross	U		Permit Req. Value NODI								<=		1010.0 MAXIMUM F - Insufficient Flow for Sampling	28 - ug/L	01/YR - Annu	d I	GR - GRAB
							Sample										3				
9516	Polychlorinated biphenyls [I	PCBs] 1	1 - Efflue	nt Gross	0		Permit Req.								<=		0.2 MAXIMUM F - Insufficient Flow for Sampling	28 - ug/L	01/YR - Annu	al	GR - GRAB
Submis	ssion Note						Value NODI										r - insufficient Flow for Sampling				
		nntain a	any vali	ues for the	Sample	nor Efflue	ent Trading th	en none of	the fol	lowing fi	elds will	l he sul	hmitted f	or that row: Units	Numbe	r of Exc	cursions, Frequency of Ana	lysis and S	ample Type		
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01040	Copper, dissolved [as	Cuj		1 - Effluent	Gross		Quality or Co	ncentration	Sample	value 3			Soft	The provided sar	npie value	e is outsi	de the permit limit. (Error Cod	e: 1)			Yes
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LA-UR-	19-32659. The impaire	d wate	er pollut	ant Cu exc	eeded th	ne New M	exico Water C	uality Stan	dard.												
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TRIAD NATIONAL SECURITY LLC

PO BOX 1663 MS K490

LOS ALAMOS, NM 87545

Facility:

Facility Location:

LOS ALAMOS NATIONAL LABORATORY

PO BOX 1663 LOS ALAMOS, NM 87545

TA-03-22 Power and Steam Plant

MSGP Stormwater Pollution Prevention Plan Revision 1, January 2020

ATTACHMENT 6: ANNUAL REPORTS



Environmental Protection & Compliance Division

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

Symbol: EPC-DO: 19-029

LAUR: 19-20724

Date: JAN 3 0 2019

Stormwater Notice Processing Center Mail Code 4203M, ATTN: 2015 MSGP Reports U.S. EPA 1200 Pennsylvania Avenue, NW Washington, DC 20460

Subject: National Pollutant Discharge Elimination System (NPDES) Permit Tracking No. NMR050013, 2018 Multi-Sector General Permit (MSGP) Annual Report for Los Alamos National Laboratory (LANL)

To Whom It May Concern:

Enclosed is the 2018 MSGP Annual Report (Attachment 1) for LANL as required by Part 7.5 of the MSGP.

EPA's Electronic Reporting Rule requires that the Annual Report be submitted using the NeT-MSGP program service on the EPA Central Data Exchange system. However, due to unique conditions related to LANL's monitoring requirements, LANL's NOI was not generated on NeT-MSGP, thus LANL is unable to submit the Annual Report electronically. Correspondence from Nasim Jahan (EPA Region 6) and Emily Hack (NPDES eReporting Help Desk) are included as Attachments 2 and 3, respectively.

Please contact Holly Wheeler at (505) 667-1312 or Terrill Lemke at (505) 665-2397 if you have questions.

Very truly yours,

Terrill W. Lemke

Storm Water Team Leader

TWL/HLW:jdm



Attachment(s): Attachment 1 Annual Report for Stormwater Discharges Associated with Industrial Activity under the NPDES Multi-Sector General Permit Attachment 2 Email correspondence from Nasim Jahan dated 9/26/2018 Attachment 3 Email correspondence from Emily Hack dated 10/26/2018

Copy: Nasim Jahan, USEPA, Region 6, jahan.nasim@epa.gov, (E-File)
Sarah Holcomb, NMED, sarah.holcomb@state.nm.us, (E-File)
Karen E. Armijo, LASO-MA-LS, Karen.armijo@nnsa.doe.gov, (E-File)
Michael W. Hazen, ESHQSS, mhazen@lanl.gov, (E-File)
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Taunia Van Valkenburg, EPC-CP, tauniav@lanl.gov, (E-File)
Terrill W. Lemke, EPC-CP, tlemke@lanl.gov, (E-File)
Holly L. Wheeler, EPC-CP, hbenson@lanl.gov, (E-File)
Tim Dolan, GC-ESH, tdolan@lanl.gov, (E-File)
emla.docs@em.doe.gov, (E-File)
locatestream@lanl.gov, (E-File)
epc-correspondence@lanl.gov, (E-File)
adesh-records@lanl.gov, (E-File)



Annual Report for Stormwater Discharges Associated with Industrial Activity Under the NPDES Multi-Sector General Permit

EPC-DO: 19-029

LA-UR: 19-20724

Date:	JAN 3 0 2019	

NPDES FORM 6100-28



United States Environmental Protection Agency Washington, DC 20460

ANNUAL REPORT FOR STORMWATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY UNDER THE NPDES THE NPDES MULTI-SECTOR GENERAL PERMIT

Form Approved. OMB No. 2040-0004

2. Provide a summary of your past year's quarterly visual assessment documentation (see Part 3.2.2 of the permit).
3. For any four-sample (minimum) average benchmark monitoring exceedance, if after reviewing the selection, design, installation, and implementation
of your control measures and considering whether any modifications are necessary to meet the effluent limits in the permit, you determine that no further
pollutant reductions are technologically available and economically practicable and achievable in light of best industry practice, provide your rationale for why you believe no further reductions are achievable (see Part 6.2.1.2 of the permit). Enter "NA" if not applicable.
4. Provide a summary of your past year's corrective action documentation (See Part 4.4 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).) 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.

E. Certification I	nformation
designed to assure who manage the and belief, true, as	nalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system e that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge occurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine to knowing violations.
First Name, Middle	e Initial, Last Name:
Title:	
Signature:	
E-mail:	

Table 1. Summary of Inspections and Associated Corrective Actions

Facility	Status	Inspections Conducted Between 11/1/2018 and 1/9/2019	Unauthorized Release or Discharge	Control Measures Needing Maintenance, Repair, or Replacement	Control Measures Inadequate to Meet Non-Numeric Effluent Limitations
TA-3-22 Power and Steam Plant	Active	2	1	3	2
TA-3-29 Indoor TSD	No Exposure	1	_	_	_
TA-3-29 Machine Shop	No Exposure	1	· <u>-</u>	_	_
TA-3-30 Warehouse	No Exposure	1	1	_	2
TA-3-32 Metal Shop	No Exposure	1	_	_	1
TA-3-34-Metal Shop	No Exposure	1	_	_	_
TA-3-38 Carpenter Shop	Active	2	_	_	_
TA-3-38 Metals Fabrication Shop	Active	2		_	2
TA-3-39 and 102 Metal Shop	No Exposure	1	1	_	2
TA-3-40, Room 131S Machine Shop	No Exposure	1	_	_	1
TA-3-66 Sigma Facility	No Exposure	1	1	_	_
TA-3-2206 Warehouse	No Exposure	1	_	_	_
TA-9-28 Heavy Equipment Maintenance	No Exposure	1	_	_	1
TA-14-23 Burn Cage	No Exposure	1	_	_	_
TA-15-185 Phermex	Inactive	1	_	_	_
TA-15-313 Machine Shop	No Exposure	1	_	_	_
TA-22-52 Machine Shop	No Exposure	1	_	_	1
TA-33-39 Machine Shop	No Exposure	1	_	_	1
TA-33-113 Machine Shop	No Exposure	1	_	_	1
TA-35-2 Machine Shop	No Exposure	1	_	_	_
TA-35-125 Machine Shop	No Exposure	1	_	_	_
TA-35-213 Machine Shop	No Exposure	1		_	_
TA-46-31 Machine Shop	No Exposure	1	_	_	1
TA-46-77	No Exposure	1	_	_	_
TA-48-8 Machine Shop	No Exposure	1	_	_	_
TA-50-54 Machine Shop	No Exposure	1	_	_	_
TA-50-69 WCRRF	No Exposure	1	_	_	_
TA-53-2 Machine Shop	No Exposure	1	_	_	_
TA-53-16/0726 Machine Shop	No Exposure	1	_	_	2
TA-53-26 Machine Shop	No Exposure	1	_	_	2
TA-54-38 Indoor TSD	No Exposure	1	_	_	_
TA-54-38 Outdoor TSD	No Exposure	1	_	_	_
TA-55-3 Metal Shop	No Exposure	1	=	_	_
TA-55-PF-4 Indoor TSD	No Exposure	1	_	_	_
TA-55-5 Warehouse	No Exposure	1	_	_	_
TA-55-268 Warehouse	No Exposure	1	_	_	_
TA-55-314 Warehouse	No Exposure	1	<u> </u>	_	_

Facility	Status	Inspections Conducted Between 11/1/2018 and 1/9/2019	Unauthorized Release or Discharge	Control Measures Needing Maintenance, Repair, or Replacement	Control Measures Inadequate to Meet Non-Numeric Effluent Limitations
TA-55-355	No Exposure	1	-	_	_
TA-55-432	No Exposure	1	_	_	_
TA-55 Outdoor TSD	No Exposure	1	_	_	_
TA-60 Asphalt Batch Plant	Active	2	1	_	1
TA-60 MRF	Active	2		_	3
TA-60 Roads and Grounds	Active	2	3	1	3
TA-60-1 Heavy Equipment Yard	Active	2	_	_	10
TA-60-2 Warehouse	Active	2	1	1	1
TA-63 Transuranic Waste Facility	No Exposure	1		_	_
Totals	46	54	9	5	37

TSD=Treatment, storage and disposal
WCRRF=Waste Characterization, Reduction, and Repackaging Facility
PF = Plutonium Facility
MRF=Material Recycling Facility

Table 2. Summary of Outstanding Corrective Actions

Facility Description	Inspection Date	Inspection Type Description	Finding Description	Problem Description	Corrective Action Description	Completed	Date Corrective Action was Initiated	Expected Completion Date	Corrective Action Completion Date	Description of Noncompliance
TA-60-1 Heavy Equipment Yard	12/19/2018	Routine facility inspection	Control measure inadequate to meet non-numeric effluent limitations	Within the lower east yard at the TA-60-1 Heavy Equipment Yard, leftover ducting and straps were abandoned outside with no controls in place. Housekeeping issue.	Site representative contacted the Electrical Foreman, whom was believed to be responsible for the material on 12/20/2018. However, during a walk down on that date, it was confirmed that he was not responsible for the material. LANL was closed from 12/22/2018 through 1/03/2019. On 1/10/2019, the site representative contacted a member of the sheet metal workers to pick up the material. It was confirmed on 1/28/2019 that the material is under several feet of snow. Sheet metal workers agree to remove the material once it is accessible.	No	12/20/2018	02/28/2019	N/A	Inadequate documentation of requirements in Parts 4.3.1, 4.3.2, and 4.4.
TA-60-1 Heavy Equipment Yard	12/19/2018	Routine facility inspection	Control measure inadequate to meet non-numeric effluent limitations	East of the TA-60-1, in the southern part of the upper yard, several broken solar panels are being stored outside.	Salvage was contacted on 12/19/2018 and 1/15/2019 to determine if they could pick up the panels, but they did not respond. On 1/28/2019, the site representative contacted the Material Recycling Facility (MRF) to determine whether the solar panels could be sent to them. On 1/29/2018 the solar panels were taken to the MRF.	Yes	12/19/2018	N/A	1/29/2019	Inadequate documentation of requirements in Parts 4.3.1, 4.3.2, and 4.4.
TA-60-1 Heavy Equipment Yard	12/19/2018	Routine facility inspection	Control measure inadequate to meet non- numeric	There are several pieces of metal for fabrication and old pieces of equipment that are rusting and not covered.	LANL was closed from 12/22/2018 through 1/03/2019. Starting on 12/26/2018, several snow events occurred. A walk	No	Not documented.	1/31/2019	N/A	Inadequate documentation of requirements in Parts 4.3.1, 4.3.2, and 4.4.

Facility Description	Inspection Date	Inspection Type Description	Finding Description	Problem Description	Corrective Action Description	Completed	Date Corrective Action was Initiated	Expected Completion Date	Corrective Action Completion Date	Description of Noncompliance
			effluent limitations	Specific equipment and locations are as follows: Tail gate and apron in the lower east yard; a rusted metal beam at the same general location; and metal mesh, diamond steel and steel sheets in the central portion of the lower east yard.	down on 1/28/2019 determined the snow melted enough to be place tarps on the identified equipment and metal by 1/31/2019.					
TA-60-1 Heavy Equipment Yard	12/19/2018	Routine facility inspection	Control measure inadequate to meet non- numeric effluent limitations	On the east side of the TA-60-1, Heavy Equipment Yard, tires are being stockpiled outside with no stormwater controls in place.	Tires were transported to MRF where they will be covered, then transported to the Los Alamos County Landfill.	Yes	Not documented.	N/A	1/29/2019	Inadequate documentation of requirements in Parts 4.3.1, 4.3.2, and 4.4.
TA-60-1 Heavy Equipment Yard	12/19/2018	Routine facility inspection	Control measure inadequate to meet non-numeric effluent limitations	At the far northwest corner of the TA-60-1 Heavy Equipment Yard, stormwater is sheet flowing off the asphalt private vehicle parking area and causing erosion to the soil between there and Maniac Road.	Site representative walked down the eroded area with personnel from Roads and Grounds (R&G) on 12/20/2018. R&G will regrade the area and stabilize it with asphalt millings until the area is paved later in the year. LANL was closed from 12/22/2018 through 1/03/2019. Starting on 12/26/2018, several snow events occurred. On 1/11/2019, the Excavation Permit review was completed. The R&G crew is waiting for line locates in the area before they can regrade and stabilize. Work is proposed to be completed by 2/28/2019.	No	12/20/2018	2/28/2019	N/A	Inadequate documentation of requirements in Parts 4.3.1, 4.3.2, and 4.4.
TA-60-1 Heavy Equipment Yard	12/19/2018	Routine facility inspection	Control measure inadequate to meet non- numeric	At several locations within the TA-60-1 Heavy Equipment Yard, either metal storage racks are not covered, the existing covers need to be	LANL was closed from 12/22/2018 through 1/03/2019. Starting on 12/26/2018, several snow events occurred. Tarps will be replaced, resituated or	No	Not documented.	1/31/2019	N/A	Inadequate documentation of requirements in Parts 4.3.1, 4.3.2, and 4.4.

Facility Description	Inspection Date	Inspection Type Description	Finding Description	Problem Description	Corrective Action Description	Completed	Date Corrective Action was Initiated	Expected Completion Date	Corrective Action Completion Date	Description of Noncompliance
			effluent limitations	replaced, or metal is stored near a rack on the ground and needs to be covered. Specific locations include: north of structure TA-60-330; blade storage area on the north side of the lower east yard; far east end of lower east yard; between trailers TA-60-008 and 009; and the west side of TA-60-1 (center area).	installed to cover materials by 1/31/2019.					
TA-60-1 Heavy Equipment Yard	12/19/2018	Routine facility inspection	Control measure inadequate to meet non- numeric effluent limitations	Steel, for fabrication of ladder racks, was stored outside west of TA-60-1 without being covered.	Part of the steel was covered or removed on 12/21/2018.	Yes	Not documented.	N/A	12/21/2018	Inadequate documentation of requirements in Parts 4.3.1, 4.3.2, and 4.4.
TA-60-1 Heavy Equipment Yard	12/19/2018	Routine facility inspection	Control measure inadequate to meet non- numeric effluent limitations	Three roll-off bins were not covered. Two were located in the lower yard and one was in the paved area east of TA-60-1.	The roll-off bin containing metal for recycle was sent to MRF on 12/20/2018. A rental truck was being used at MRF because their regular truck was being repaired. The rental truck was unable to move the wood bin due to its weight. The recycle bin containing wood was taken to MRF on 1/29/2019. Roll-off bins containing tires were sent to MRF on 12/20/2018 and 1/29/2019. The new bin for tires was covered with a tarp on 1/29/2019.	Yes	Not documented.	N/A	1/29/2019	Inadequate documentation of requirements in Parts 4.3.1, 4.3.2, and 4.4.
TA-60 Roads and Grounds	12/17/2018	Routine facility inspection	Control measure inadequate to meet non- numeric effluent limitations	A Hamm roller appears to be abandoned within the Sigma Mesa Staging Area at TA-60 Roads and Grounds east. Liquids have not been drained from the equipment.	On 12/12/2018 a drip pan with spill pads and pillows was placed underneath the Hamm roller to help capture any drips from the small leak. By 1/7/2019, approximately 20 or more inches of leftover snow	Yes	12/17/2018	N/A	1/26/2019	Inadequate documentation of requirements in Part 4.3.2.

Facility Description	Inspection Date	Inspection Type Description	Finding Description	Problem Description	Corrective Action Description	Completed	Date Corrective Action was Initiated	Expected Completion Date	Corrective Action Completion Date	Description of Noncompliance
					from multiple storms that dropped 3 feet of snow by 1/1/2019, impeded access to Hamm roller. On 1/18/2019, during the routine facility inspection, there was no new signs of leakage inside the drip pan underneath the Hamm roller. On 1/26/2019, the motor oil and hydraulic fluids were removed from the Hamm roller.					
TA-60 Asphalt Batch Plant	12/17/2018	Routine facility inspection	Unauthorized release or discharge	At the TA-60 Asphalt Batch Plant, the pump to the heating oil tank is leaking oil.	On 12/11/2017 Roads and Grounds contacted TP Pump out of Albuquerque for a quote on a replacement pump. On 12/17/2018 a new pump was ordered from Honstein Oil & Distribution out of Santa Fe with a 20 day business lead time. On 12/18/2018, the Asphalt Batch Plant was shut down which turns the pump off and stops it from leaking. On 12/20/2018, the soil south of the tank and within the secondary containment basin was cleaned up and the affected area was sprayed with Micro-Blaze. During the routine facility inspection on 1/16/2019, it was determined that power to the Asphalt Batch Plant had not been restored and the pump to the heating oil was not leaking. The new replacement pump is now scheduled to arrive on 2/25/2019. The expected completion date for this corrective action is close of business on 2/28/2019.	No	12/17/2018	2/28/2019	N/A	Inadequate documentation of requirements in Part 4.3.2.

Facility Description	Inspection Date	Inspection Type Description	Finding Description	Problem Description	Corrective Action Description	Completed	Date Corrective Action was Initiated	Expected Completion Date	Corrective Action Completion Date	Description of Noncompliance

Email correspondence from Nasim Jahan dated 9/26/2018

EPC-DO: 19-029

LA-UR: 19-20724

From:

Lemke, Terrill W

To: Subject: Dolan, Timothy Aloysius; Dale, Leslie J; Wheeler, Holly Lynn

Subject Date:

FW: Request for LANL Paper MSGP NOI Waiver Wednesday, September 26, 2018 4:15:53 PM

FYI

Terrill Lemke, PE, CPESC, CISEC Environmental Compliance Programs Los Alamos National Laboratory Los Alamos, NM

Office: 505-665-2397 Cell: 505-699-0725

From: Jahan, Nasim < Jahan.Nasim@epa.gov> **Sent:** Wednesday, September 26, 2018 2:43 PM

To: Lemke, Terrill W <tlemke@lanl.gov>

Cc: Emily Gorman <emily@avanticorporation.com> **Subject:** RE: Request for LANL Paper MSGP NOI Waiver

Dear Mr. Terrill:

EPA, Region 6 is approving your request for paper submission as the facility is unable to submit the NOI online. Please mail the hardcopies to the following address:

For Regular U.S. Mail Delivery:

Stormwater Notice Processing Center
Mail Code 4203M, ATTN: 2015 MSGP Signature Agreement
U.S. EPA
1200 Pennsylvania Avenue, NW
Washington, DC 20460

For Overnight/Express U.S. Mail Delivery:

Stormwater Notice Processing Center
William Jefferson Clinton East Building – Room 7420
ATTN: 2015 MSGP Signature Agreement
U.S. EPA
1201 Constitution Avenue, NW
Washington, DC 20004
Thank you,

Nasim Jahan

Environmental Engineer Permits and Technical Section (6WQ-PP) EPA Region 6 Water Quality Protection Division 1445 Ross Avenue, Ste. 1200 Dallas, TX 75202-2733 Phone: 214.665.7522 Fax: 214.665.2191

- 1. Part 9.6.2 of the 2015 MSGP, Permit Conditions for the State of New Mexico, requires that benchmark values be modified to reflect New Mexico water quality standards for facilities in New Mexico, based on benchmark values from the Standards for Interstate and Intrastate Surface Waters (20.6.4.900 New Mexico Administrative Code [NMAC]). These modified benchmark values are not recognized by NeT-MSGP and populated in NetDMR.
- 2. The 2018-2020 State of New Mexico Clean Water Act §303(d)/ §305(b) Integrated Report requires monitoring of impaired waters pollutants not available for selection in NeT-MSGP (e.g., Adjusted Gross Alpha and Temperature).
- 3. 20.6.4.900 NMAC requires monitoring of certain modified benchmark and impaired waters metals pollutants as dissolved species, which are not available for selection in NeT-MSGP. Currently, only total metals species may be assigned in NeT-MSGP.
- 4. Due to extended frozen conditions during the winter and a semi-arid climate, Triad will implement an alternative monitoring period of four (4) two-month monitoring quarters for benchmark values as identified below, in accordance with Part 6.1.6 of the 2015 MSGP. This alternate monitoring schedule does not coincide with the default four (4) three-month quarters listed in Part 6.1.7 of the 2015 MSGP and NeT-MSGP does not allow input of an

alternate monitoring schedule. Accordingly, annual impaired waters and Effluent Limitation Guideline monitoring will be conducted between April 1 and November 30 of each year.

April 1 through May 31 June 1 through July 31 August 1 through September 30 October 1 through November 30

These system limitations directly result in inaccurate pollutants, limits, monitoring periods and DMR due dates being populated in NetDMR.

EPA Region 6 has recognized the challenges that the outgoing operator (LANS) has identified with NeT-MSGP related to compliance with Part 9.6.2 of the 2015 MSGP, Permit Conditions for the State of New Mexico, and has been instrumental in helping LANS to resolve these issues. Therefore, per your verbal direction, we are requesting a waiver for Triad to submit a paper NOI in lieu of submitting an inaccurate and incomplete NOI in NeT-MSGP. Please advise at your earliest convenience if you concur with our submittal of a paper NOI, as we must submit by Oct 2.

We appreciate your assistance in helping us maintain compliance. If you have any questions, please contact me at (505) 665-2397.

Terrill

Terrill Lemke, PE, CPESC, CISEC Environmental Compliance Programs Los Alamos National Laboratory Los Alamos, NM Office: 505-665-2397

Cell: 505-699-0725

Email correspondence from Emily Hack dated 10/26/2018

EPC-DO: 19-029

LA-UR: 19-20724

From:

Emily Hack (Avanti) (EPA NeT Support)

Cc: Subject: Jahan Nasim; Wheeler, Holly Lynn; Dale, Leslie J; Hazen, Michael W NMR050013 - Triad National Security LLC - MSGP Notice of Intent

Date:

Friday, October 26, 2018 11:13:07 AM

Attachments:

NMR050013 Triad Los Alamos National Laboratory 2015 MSGP NOI Acknowledgement.pdf

Triad National Security LLC Los Alamos National Laboratory 10-02-2018.pdf

##- Please type your reply above this line -##

You are CC'ed on this support request (10066). Reply to this email to add a comment to the request.

Emily Hack (Avanti) (EPA NeT Support)

Oct 26, 13:12 FDT

Good afternoon,

The paper Notice of Intent (NOI) submitted under EPA's Multi-Sector General Permit (MSGP) for Los Alamos National Laboratory under Triad National Security LLC has been processed by the EPA NPDES eReporting Help Desk. The facility was assigned NPDES ID NMR050013. Please, retain the attached acknowledgement letter for your records.

Due to the unique nature of the outfall sequence and monitoring requirements, EPA instructed that we enter the NOI directly into the back-end system. Therefore, the NOI will not be generated in the NeT MSGP program at this time. Attached is the NOI that we received. As I'm sure you are aware, for any changes to the NOI in the future, please submit them via paper as well.

Please, let me know if you have any questions.

Sincerely,

Emily Hack
NPDES eReporting Help Desk
Staffed by Avanti Corporation
1-877-227-8965
NPDESeReporting@epa.gov



Environmental Protection & Compliance Division

Compliance Programs Group PO Box 1663, K490 Los Alamos, New Mexico 87545 505-667-0666

Symbol: EPC-DO: 20-032 LAUR: 20-20880

Date: JAN 2 9 2020

Stormwater Notice Processing Center Mail Code 4203M, ATTN: 2015 MSGP Reports U.S. EPA 1200 Pennsylvania Avenue, NW Washington, DC 20460

Subject: National Pollutant Discharge Elimination System (NPDES) Permit Tracking

No. NMR050013, 2019 Multi-Sector General Permit (MSGP) Annual Report for

Los Alamos National Laboratory (LANL)

To Whom It May Concern:

Enclosed is the 2019 MSGP Annual Report (Attachment 1) submitted by Triad National Security, LLC (Triad) for Los Alamos National Laboratory as required by Part 7.5 of the MSGP.

EPA's Electronic Reporting Rule requires that the Annual Report be submitted using the NeT-MSGP program service on the EPA Central Data Exchange system. However, due to unique conditions related to LANL's monitoring requirements, LANL's NOI was not generated on NeT-MSGP, thus LANL is unable to submit the Annual Report electronically. Correspondence from Nasim Jahan (EPA Region 6) and Emily Hack (NPDES eReporting Help Desk) are included as Attachments 2 and 3, respectively.

Please contact Holly Wheeler at (505) 667-1312 or Terrill Lemke at (505) 665-2397 if you have questions.

Sincerely,

Terrill W. Lemke

Storm Water Team Leader

Du Ale

TWL/HLW:jdm



EPC-DO: 20-032

Stormwater Notice Processing Center

Attachment(s): Attachment 1 National Pollutant Discharge Elimination System (NPDES) Permit Tracking No. NMR050013 Multi-Sector General Permit (MSGP) 2019 Annual Report

Attachment 2 Email correspondence from Nasim Jahan dated 9/26/2018 Attachment 3 Email correspondence from Emily Hack dated 10/26/2018

Copy: Nasim Jahan, USEPA, Region 6, jahan.nasim@epa.gov
Sarah Holcomb, NMED/SWQB, sarah.holcomb@state.nm.us
Karen E. Armijo, NA-LA, Karen.armijo@nnsa.doe.gov
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Terrill W. Lemke, EPC-CP, tlemke@lanl.gov
Holly L. Wheeler, EPC-CP, hbenson@lanl.gov
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adesh-records@lanl.gov



National Pollutant Discharge Elimination System (NPDES) Permit Tracking No. NMR050013 Multi-Sector General Permit (MSGP) 2019 Annual Report

EPC-DO: 20-032

LA-UR-20-20880

National Pollutant Discharge Elimination System (NPDES) Permit Tracking No. NMR050013

Multi-Sector General Permit (MSGP) 2019 Annual Report

1. A summary of routine inspection documentation from January 1, 2019 through December 31, 2019 required in Part 3.1.2.

Los Alamos National Laboratory (LANL), operated by Triad National Security, LLC (Triad), consists of 8 active industrial sites that operate under 6 different Sectors (A, D, N, O, P, and AA). Permit coverage became effective on November 1, 2018. All 8 active sites were inspected according the schedules identified in the site-specific Stormwater Pollution Prevention Plans (SWPPPs). The 37 sites that qualify for a conditional exclusion for no exposure were inspected between January 1, 2019 and December 31, 2019. A summary of inspections/evaluations and associated corrective actions are included in Table 1. An evaluation of analytical monitoring data and summary of results for the 2019 calendar year was conducted on 1/21/2020 and is included in Table 2.

Table 1. Summary of Inspections and Associated Corrective Actions

Facility	Status	Inspections Conducted Between 1/1/2019 and 12/31/2019	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)	Incidents of Noncompliance [New Mexico Water Quality Standard (NM WQS) Exceedances]	Incidents of Noncompliance (Average Exceeds or is Mathematically Certain to Exceed Benchmark Value Modified to Reflect a NM WQS per 2015 MSGP Part 9.6.2.1)	Average Exceeds or is Mathematically Certain to Exceed Benchmark Value	Total Corrective Actions by Facility
TA-3-22 Power and Steam Plant	Active	12	1	13	10		5		3	32
TA-3-29 Indoor TSD	No Exposure	1	=	· ·	710	-	****	-	2_	
TA-3-29 Machine Shop	No Exposure	1		=	-	=:		; -	_	200
TA-3-30 Warehouse	No Exposure	1	2	(111		-	_	200	2
TA-3-32 Metal Shop	No Exposure	1				1 01		-	1011 1011	_
TA-3-34 Metal Shop	No Exposure	1	===	=	;m ;	 :		-	100	_
TA-3-38 Carpenter Shop	Active	12		1	3	: 0:	=	-	444	4
TA-3-38 Metals Fabrication Shop	Active	12	2	8	5	: :);	2	_	2	19
TA-3-39 and 102 Metal Shop	No Exposure	1	1	=	1		-	— :	<u> </u>	2
TA-3-40, Room 1315 Machine Shop	No Exposure	1	2-2	-				-	442	-
TA-3-66 Sigma Facility	No Exposure	1	3		2)) == ;			5
TA-3-2206 Warehouse	No Exposure	1	-	3 ;	1	-	13-0-1	-		1
TA-9-28 Heavy Equipment Maintenance	No Exposure	1	1					(-)	_	1
TA-14-23 Burn Cage	No Exposure	1		2-2		-	3 -3 1	; =).	-	-
TA-15-185 Phermex	No Exposure	1	; = ;		_	-	3 3	-		
TA-15-313 Machine Shop	No Exposure	1	2	===		-	<u>→</u>			2
TA-22-52 Machine Shop	No Exposure	1		· ·			· -	-	(=	-
TA-33-39 Machine Shop	No Exposure	1					-	_	9-4	====

Facility	Status	Inspections Conducted Between 1/1/2019 and 12/31/2019	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)	Incidents of Noncompliance [New Mexico Water Quality Standard (NM WQS) Exceedances]	Incidents of Noncompliance (Average Exceeds or is Mathematically Certain to Exceed Benchmark Value Modified to Reflect a NM WQS per 2015 MSGP Part 9.6.2.1)	Average Exceeds or is Mathematically Certain to Exceed Benchmark Value	Total Corrective Actions by Facility
TA-33-113 Machine Shop	No Exposure	111	:	+		_				2-
TA-35-2 Machine Shop	No Exposure	1		-			=		<u> </u>	9-1
TA-35-125 Machine Shop	No Exposure	11		-	1			\ <u></u>	-	1
TA-46-31 Machine Shop	No Exposure	1	1		1	-		9=	_	2
TA-46-77 Machine Shop	No Exposure	1	1	1	1	_			-	1
TA-48-8 Machine Shop	No Exposure	11	-		-	_	1	(A=1)		
TA-50-54 Machine Shop	No Exposure	1	Ţ		 1:	_	—	S = 3	-	-
TA-50-69 WCRRF	No Exposure	11		-		_	-	-	-	12_31
TA-53-2 Machine Shop	No Exposure	11	Ţ		1	i—		-	-	1
TA-53-16 Machine Shop	No Exposure	1	Ţ	***	1		-		_	1
TA-53-26 Machine Shop	No Exposure	1	1	***	1	1	-			1
TA-54-38 Indoor TSD	No Exposure	11	-			1	Ţ	7=0		(==)
TA-54 RANT	No Exposure	1	-				T			
TA-55-3 Metal Shop	No Exposure	1	-	-	1	(-)	<u> </u>			1
TA-55-PF-4 Indoor TSD	No Exposure	1	1		-	-	-			
TA-55-5 Warehouse	No Exposure	11	1		<u>-</u>	1	Ī			1
TA-55-268 Warehouse	No Exposure	1	-	_	=	-	-	=======================================	_	_
TA-55-314 Warehouse	No Exposure	11	-			1				_
TA-55-355 TSD	No Exposure	11	1		-	1		<u> </u>		1
TA-55-432 Warehouse	No Exposure	1	3							
TA-55 Outdoor TSD	No Exposure	1	()	_		-	944			-
TA-60 Asphalt Batch Plant	Active	12	4	11	3	2	444			10
TA-60 MRF	Active	12	2	E-4	9		1			12
TA-60 Roads and Grounds	Active	12	14	12	24	_	4	-		54
TA-60-1 Heavy Equipment Yard	Active	12	21	24	14	-	2	2	1	64
TA-60-2 Warehouse	Active	12	2	4	6		4	-	<u> </u>	16
TA-63 Transuranic Waste Facility	No Exposure	11	5 — 6	0 		<u>1—0</u> 0	<u> </u>	-		==
Totals	45	133	58	63	85	2	18	2	6	234

TSD=Treatment, storage and disposal WCRRF=Waste Characterization, Reduction, and Repackaging Facility PF = Plutonium Facility MRF=Material Recycling Facility

Table 2. Summary of Monitoring Results

Permitted Facility	Outfall	Monitoring Type	Pollutant(s)	Monitoring Status	Reason
TA-3-22 Power & Steam Plant	005	Impaired Waters	Total recoverable AI, dissolved Cu	Continued	The pollutant was detected at a concentration that exceeded the Water Quality Standard.
TA-3-22 Power & Steam Plant	005	Impaired Waters	Total Aroclor	Discontinued	Part 6.2.4.1. The pollutant of concern was not detected and not expected to be present in discharge.
TA-3-22 Power & Steam Plant	005	Quarterly Benchmark	Total Fe	Continued	The average concentration of fewer than four quarterly monitoring values is mathematically certain to exceed the benchmark.
TA-3-22 Power & Steam Plant	009	Impaired Waters	Total recoverable Al, dissolved Cu	Continued	The pollutant was detected at a concentration that exceeded the Water Quality Standard.
TA-3-22 Power & Steam Plant	009	Impaired Waters	Total Aroclor	Discontinued	Part 6.2.4.1. The pollutant of concern was not detected and not expected to be present in discharge.
TA-3-22 Power & Steam Plant	009	Quarterly Benchmark	Total Fe	Continued	The average concentration of fewer than four quarterly monitoring values is mathematically certain to exceed the benchmark.
TA-3-22 Power & Steam Plant	012	Impaired Waters	Dissolved Cu	Continued	The pollutant was detected at a concentration that exceeded the Water Quality Standard.
TA-3-22 Power & Steam Plant	012	Impaired Waters	Total recoverable Al, Total Aroclor	Continued	Insufficient volume collected to perform analysis.
TA-3-22 Power & Steam Plant	012	Quarterly Benchmark	Total Fe	Continued	Insufficient volume collected to perform analysis.
TA-3-38 Carpenter Shop	074	Impaired Waters	Total recoverable Al, Dissolved Cu	Continued	The pollutant was detected at a concentration below the Water Quality Standard.
TA-3-38 Carpenter Shop	074	Impaired Waters	Total Aroclor	Discontinued	Part 6.2.4.1. The pollutant of concern was not detected and not expected to be present in discharge.
TA-3-38 Carpenter Shop	073	Impaired Waters	COD, TSS	Discontinued	Per Part 6.2.1.2, the average of four quarterly monitoring values does not exceed the benchmark.
TA-3-38 Metals Fab Shop	002	Impaired Waters	Total recoverable Al, dissolved Cu, Total Aroclor	Discontinued	Due to physical site changes, outfall 002 was replaced by outfall 076 on May 1, 2019, therefore monitoring at outfall 002 is discontinued.
TA-3-38 Metals Fab Shop	002	Quarterly Benchmark	NO3+NO2-N, total recoverable AI, total Fe, dissolved Zn	Discontinued	Due to physical site changes, outfall 002 was replaced by outfall 076 on May 1, 2019, therefore monitoring at outfall 002 is discontinued.
TA-3-38 Metals Fab Shop	076	Impaired Waters	Total recoverable Al	Continued	The pollutant was detected at a concentration that exceeded the Water Quality Standard.
TA-3-38 Metals Fab Shop	076	Impaired Waters	Dissolved Cu	Continued	Dissolved Copper was monitored at outfall 002 prior to being replaced by this outfall. The pollutant wa detected at a concentration that exceeded the Water Quality Standard.
TA-3-38 Metals Fab Shop	076	Impaired Waters	Total Aroclor	Discontinued	Part 6.2.4.1. The pollutant of concern was not detected and not expected to be present in discharge.
TA-3-38 Metals Fab Shop	076	Quarterly Benchmark	NO3+NO2-N	Continued	Fewer than four quarterly monitoring values have been collected, however the average does not exceed the benchmark.
TA-3-38 Metals Fab Shop	076	Quarterly Benchmark	Total recoverable AI, total Fe, dissolved Zn	Continued	The average concentration of fewer than four quarterly monitoring values is mathematically certain to exceed the benchmark. Per Part 9.6.2.1, the benchmarks for Al and Zn are modified to reflect the NM WQS.
TA-60 Asphalt Batch Plant	043	Effluent Limitations Guidelines	Oil and Grease	Continued	Monitoring is required annually. The pollutant was not detected.
TA-60 Asphalt Batch Plant	043	Effluent Limitations Guidelines	TSS, pH	Continued	Monitoring is required annually. The pollutant was detected at a concentration that exceeded the daily limit.
TA-60 Asphalt Batch Plant	043	Effluent Limitations Guidelines	TSS	Continued	Monitoring is required annually. The pollutant was detected at a concentration that exceeded the 30-day average limit.
TA-60 Asphalt Batch Plant	043	Impaired Waters	Dissolved Cu, Adjusted Gross Alpha	Continued	The pollutant was detected at a concentration below the Water Quality Standard.
TA-60 Asphalt Batch Plant	043	Impaired Waters	Total Aroclor, total Hg	Discontinued	Per Part 6.2.4.1, the pollutant of concern was not detected and not expected to be present in discharge
TA-60 Asphalt Batch Plant	043	Quarterly Benchmark	TSS	Continued	Fewer than four quarterly monitoring values have been collected, however the average does not exceed the benchmark.
TA-60 MRF	029	Impaired Waters	Dissolved Cu	Continued	The pollutant was detected at a concentration that exceeded the Water Quality Standard.
TA-60 MRF	029	Impaired Waters	Total recoverable Al	Continued	The pollutant was detected at a concentration below the Water Quality Standard.

Permitted Facility	Outfall	Monitoring Type	Pollutant(s)	Monitoring Status	Reason
TA-60 MRF	029	Impaired Waters	Total Aroclor	Discontinued	Per Part 6.2.4.1, the pollutant of concern was not detected and not expected to be present in discharge.
TA-60 Roads and Grounds	031	Impaired Waters	Dissolved Cu, Adjusted Gross Alpha	Continued	The pollutant was detected at a concentration below the Water Quality Standard.
TA-60 Roads and Grounds	031	Impaired Waters	Total Aroclor, total Hg	Discontinued	Per Part 6.2.4.1, the pollutant of concern was not detected and not expected to be present in discharge.
TA-60 Roads and Grounds	032	Impaired Waters	Total recoverable Al	Continued	The pollutant was detected at a concentration that exceeded the Water Quality Standard.
TA-60 Roads and Grounds	032	Impaired Waters	Dissolved Cu	Continued	The pollutant was detected at a concentration below the Water Quality Standard.
TA-60 Roads and Grounds	032	Impaired Waters	Total Aroclor	Discontinued	Per Part 6.2.4.1, the pollutant of concern was not detected and not expected to be present in discharge.
TA-60 Roads and Grounds	037	Impaired Waters	Total recoverable Al	Continued	The pollutant was detected at a concentration that exceeded the Water Quality Standard.
TA-60 Roads and Grounds	037	Impaired Waters	Dissolved Cu	Continued	The pollutant was detected at a concentration below the Water Quality Standard.
TA-60 Roads and Grounds	037	Impaired Waters	Total Aroclor	Discontinued	Per Part 6.2.4.1, the pollutant of concern was not detected and not expected to be present in discharge.
TA-60 Roads and Grounds	039	Impaired Waters	Dissolved Cu	Continued	The pollutant was detected at a concentration that exceeded the Water Quality Standard.
TA-60 Roads and Grounds	039	Impaired Waters	Total Aroclor, total recoverable Al	Continued	Insufficient volume collected to perform analysis.
TA-60 Roads and Grounds	042	Impaired Waters	Total recoverable Al	Continued	The pollutant was detected at a concentration that exceeded the Water Quality Standard.
TA-60 Roads and Grounds	042	Impaired Waters	Dissolved Cu	Continued	The pollutant was detected at a concentration below the Water Quality Standard,
TA-60 Roads and Grounds	042	Impaired Waters	Total Aroclor	Discontinued	Per Part 6.2.4.1, the pollutant of concern was not detected and not expected to be present in discharge.
TA-60-1 Heavy Equipment Yard	022	Impaired Waters	Total recoverable Al, dissolved Cu	Continued	The pollutant was detected at a concentration that exceeded the Water Quality Standard.
TA-60-1 Heavy Equipment Yard	022	Impaired Waters	Total Aroclor	Discontinued	Per Part 6.2.4.1, the pollutant of concern was not detected and not expected to be present in discharge.
TA-60-1 Heavy Equipment Yard	022	Quarterly Benchmark	NO3+NO2-N, total recoverable Al, total Fe, dissolved Zn	Continued	The average concentration of fewer than four quarterly monitoring values is mathematically certain to exceed the benchmark. Per Part 9.6.2.1, the benchmarks for Al and Zn are modified to reflect the NM WQS.
TA-60-2 Warehouse	026	Impaired Waters	Total recoverable AI, dissolved Cu	Continued	The pollutant was detected at a concentration that exceeded the Water Quality Standard.
TA-60-2 Warehouse	026	Impaired Waters	Total Aroclor	Discontinued	Per Part 6.2.4.1, the pollutant of concern was not detected and not expected to be present in discharge.
TA-60-2 Warehouse	075	Impaired Waters	Total recoverable AI, dissolved Cu	Continued	The pollutant was detected at a concentration that exceeded the Water Quality Standard.
TA-60-2 Warehouse	075	Impaired Waters	Total Aroclor	Discontinued	Per Part 6.2.4.1, the pollutant of concern was not detected and not expected to be present in discharge.

Al=Aluminum Cu=Copper

COD=Chemical Oxygen Demand

Fe=Iron

NO3+NO2-N=Nitrate-Nitrite as Nitrogen

Hg=Mercury

TSS=Total Suspended Solids

Zn=Zinc

NM WQS= New Mexico Water Quality Standard

MRF=Material Recycling Facility

2. A summary of the past year's quarterly visual assessment documentation (see Part 3.2.2)

A total of 112 visual assessments were completed at 30 different outfalls. Evidence of an oil sheen was observed in two samples: Outfall 002 on 4/23/2019 and and Outfall 074 on 05/10/2019. No other evidence of pollutants were observed.

3. For any four-sample (minimum) average benchmark monitoring exceedance, if after reviewing the selection, design, installation, and implementation of your control measures and considering whether any modifications are necessary to meet the effluent limits in the permit, you determine that no further pollutant reductions are technologically available and economically practicable and achievable in light of best industry practice, your rationale for why you believe no further reductions are achievable.

N/A

4. A summary of your past year's corrective action documentation (See Part 4.4). If corrective action is not yet completed at the time of submission of your annual report, you must describe the status of any outstanding corrective actions. 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 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, and (3) control measures that were inadequate to meet the non-numeric effluent limitations. There are no corrective actions not yet completed at the time of annual report submission.

Regarding incidents of noncompliance, 18 monitored constituents from different outfalls exceeded an individual New Mexico Water Quality Standard (NM WQS), 2 monitored quarterly benchmark constituent value exceedances occurred where the benchmark value was modified to reflect a NM WQS per Section 9.6.2.1, and 2 effluent limitation guideline constituent value exceedances occurred as shown in Table 2. Corrective actions to address these exceedances have been completed.

Email correspondence from Nasim Jahan dated 9/26/2018

EPC-DO: 20-032

LA-UR-20-20880

Date:	JAN 2 9 2020

From: Lemke, Terrill W

To: Dolan, Timothy Aloysius; Dale, Leslie J; Wheeler, Holly Lynn

Subject: FW: Request for LANL Paper MSGP NOI Waiver
Date: Wednesday, September 26, 2018 4:15:53 PM

FYI

Terrill Lemke, PE, CPESC, CISEC Environmental Compliance Programs Los Alamos National Laboratory Los Alamos, NM

Office: 505-665-2397 Cell: 505-699-0725

From: Jahan, Nasim < Jahan. Nasim@epa.gov>
Sent: Wednesday, September 26, 2018 2:43 PM

To: Lemke, Terrill W <tlemke@lanl.gov>

Cc: Emily Gorman <emily@avanticorporation.com>
Subject: RE: Request for LANL Paper MSGP NOI Waiver

Dear Mr. Terrill:

EPA, Region 6 is approving your request for paper submission as the facility is unable to submit the NOI online. Please mail the hardcopies to the following address:

For Regular U.S. Mail Delivery:

Stormwater Notice Processing Center
Mail Code 4203M, ATTN: 2015 MSGP Signature Agreement
U.S. EPA
1200 Pennsylvania Avenue, NW
Washington, DC 20460

For Overnight/Express U.S. Mail Delivery:

Stormwater Notice Processing Center
William Jefferson Clinton East Building – Room 7420
ATTN: 2015 MSGP Signature Agreement
U.S. EPA
1201 Constitution Avenue, NW
Washington, DC 20004
Thank you,

Nasim Jahan

Environmental Engineer Permits and Technical Section (6WQ-PP) EPA Region 6 Water Quality Protection Division 1445 Ross Avenue, Ste. 1200 Dallas, TX 75202-2733 Phone: 214.665.7522 Fax: 214.665.2191

- 1. Part 9.6.2 of the 2015 MSGP, Permit Conditions for the State of New Mexico, requires that benchmark values be modified to reflect New Mexico water quality standards for facilities in New Mexico, based on benchmark values from the Standards for Interstate and Intrastate Surface Waters (20.6.4.900 New Mexico Administrative Code [NMAC]). These modified benchmark values are not recognized by NeT-MSGP and populated in NetDMR.
- 2. The 2018-2020 State of New Mexico Clean Water Act §303(d)/ §305(b) Integrated Report requires monitoring of impaired waters pollutants not available for selection in NeT-MSGP (e.g., Adjusted Gross Alpha and Temperature).
- 3. 20.6.4.900 NMAC requires monitoring of certain modified benchmark and impaired waters metals pollutants as dissolved species, which are not available for selection in NeT-MSGP. Currently, only total metals species may be assigned in NeT-MSGP.
- 4. Due to extended frozen conditions during the winter and a semi-arid climate, Triad will implement an alternative monitoring period of four (4) two-month monitoring quarters for benchmark values as identified below, in accordance with Part 6.1.6 of the 2015 MSGP. This alternate monitoring schedule does not coincide with the default four (4) three-month quarters listed in Part 6.1.7 of the 2015 MSGP and NeT-MSGP does not allow input of an

alternate monitoring schedule. Accordingly, annual impaired waters and Effluent Limitation Guideline monitoring will be conducted between April 1 and November 30 of each year.

April 1 through May 31 June 1 through July 31 August 1 through September 30 October 1 through November 30

These system limitations directly result in inaccurate pollutants, limits, monitoring periods and DMR due dates being populated in NetDMR.

EPA Region 6 has recognized the challenges that the outgoing operator (LANS) has identified with NeT-MSGP related to compliance with Part 9.6.2 of the 2015 MSGP, Permit Conditions for the State of New Mexico, and has been instrumental in helping LANS to resolve these issues. Therefore, per your verbal direction, we are requesting a waiver for Triad to submit a paper NOI in lieu of submitting an inaccurate and incomplete NOI in NeT-MSGP. Please advise at your earliest convenience if you concur with our submittal of a paper NOI, as we must submit by Oct 2.

We appreciate your assistance in helping us maintain compliance. If you have any questions, please contact me at (505) 665-2397.

Terrill

Terrill Lemke, PE, CPESC, CISEC Environmental Compliance Programs Los Alamos National Laboratory Los Alamos, NM Office: 505-665-2397

Cell: 505-699-0725

Email correspondence from Emily Hack dated 10/26/2018

EPC-DO: 20-032

LA-UR-20-20880

D	4.4.4
Date:	JAN 2 9 2020
Date.	3HI4 Z 3 ZUZII

From:

Emily Hack (Avanti) (EPA NeT Support)

Cc: Subject:

Jahan Nasim; Wheeler, Holly Lynn; Dale, Leslie J; Hazen, Michael W NMR050013 - Triad National Security LLC - MSGP Notice of Intent

Date:

Friday, October 26, 2018 11:13:07 AM

Attachments:

NMR050013 Triad Los Alamos National Laboratory 2015 MSGP NOI Acknowledgement.pdf Triad National Security LLC Los Alamos National Laboratory 10-02-2018.pdf

##- Please type your reply above this line -##

You are CC'ed on this support request (10066). Reply to this email to add a comment to the request.

Emily Hack (Avanti) (EPA NeT Support)

Oct 26, 13:12 EDT

Good afternoon,

The paper Notice of Intent (NOI) submitted under EPA's Multi-Sector General Permit (MSGP) for Los Alamos National Laboratory under Triad National Security LLC has been processed by the EPA NPDES eReporting Help Desk. The facility was assigned NPDES ID NMR050013. Please, retain the attached acknowledgement letter for your records.

Due to the unique nature of the outfall sequence and monitoring requirements, EPA instructed that we enter the NOI directly into the back-end system. Therefore, the NOI will not be generated in the NeT MSGP program at this time. Attached is the NOI that we received. As I'm sure you are aware, for any changes to the NOI in the future, please submit them via paper as well.

Please, let me know if you have any questions.

Sincerely,

Emily Hack NPDES eReporting Help Desk Staffed by Avanti Corporation 1-877-227-8965 NPDESeReporting@epa.gov

This email is a service from EPA NeT Support. Delivered by Zendesk

TA-03-22 Power and Steam Plant

MSGP Stormwater Pollution Prevention Plan Revision 1, January 2020

ATTACHMENT 7: ROUTINE FACILITY INSPECTIONS

Los Alamos National Lab - ADESH

Work Order MSGP-RI-63344

MSGP Routine Inspection Printed 11/26/2018 - 5:09 PM

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u	110	H	ITP	na	mc	Α.	IOT2	

Requested: 10/29/2018 10:35:31 AM

Procedure: MSGP Routine Facility

Inspection (EPC-CP-Form-

1020.1)

Last PM:

9/25/2018

Project:

Routine Facility Inspections Nov. 2018 (P-MSGP-RI-

5346)

Reason: 2018 November Inspections

Special Instructions: NMR053195

Target: 11/30/2018

Priority/Type: Normal / Inspection

Department: Utilities and Infrastructure

☑ MSGP Program 器 RG121.9

★ TA-3-22 Power & Steam Plant

Contact: Phone:

Insp done Phon 11/20/18 10:00-10:45 AM

Tasks				***************************************	***************************************
#	Description	Meas.	No	N/A	Yes
Weatl	ner Information				
20	Describe the weather at time of inspection and document the temperature (F°).	Fair		Ī	Tu
Withi	the Facility Boundary				
	Is the facility free of new discharges of pollutants that have occurred since the last		51,032.09	Katrona	KEMER
<u>40</u> 50	inspection? If "Failed" describe. If "No" has a CAR been previously initiated for this new discharge?				
60	Is the facility free of discharge of pollutants at the time of inspection? If "No" describe.				
70	Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe.				
descr	ll Inspection (identify needed maintenance and repairs, failed control measures that need iption of corrective actions in relevant task comment)	d replace	ement,	or a	
90	Monitored Outfall [005] Free of Evidence of Erosion? If "No", describe.			<u> </u>	
100	Monitored Outfall [005] Flow Dissipation Devices Operating Effectively? If "No", describe.				[-/
110	Monitored Outfall [005] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		Г		
120	Monitored Outfall [009] Free of Evidence of Erosion? If "No", describe.		Ė	Ė	T
130	Monitored Outfall [009] Flow Dissipation Devices Operating Effectively? If "No", describe.		Г		
140	Monitored Outfall [009] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.				
150	Monitored Outfall [012] Free of Evidence of Erosion? If "No", describe.		T	Ŧ	
160	Monitored Outfall [012] Flow Dissipation Devices Operating Effectively? If "No", describe.				
170	Monitored Outfall [012] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.				
180	Substantially Identical Outfall [006] Free of Evidence of Erosion? If "No", describe.		Ė	Ť	Ė
190	Substantially Identical Outfall [006] Flow Dissipation Devices Operating Effectively? If "No", describe.		Г	F	
200	Substantially Identical Outfall [006] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		T'	<u> </u>	<u> </u>
210	Substantially Identical Outfall [007] Free of Evidence of Erosion? If "No", describe.		Ė		
220	Substantially Identical Outfall [007] Flow Dissipation Devices Operating Effectively? If "No", describe.	Thirt is a second of the secon		——	<u> </u>
230	Substantially Identical Outfall [007] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.			_ <u></u>	<u> </u>
240	Substantially Identical Outfall [008] Free of Evidence of Erosion? If "No", describe.		_ <u>_</u>	- '	

250	Substantially Identical Outfall [008] Flow Dissipation Devices Operating Effectively? If "No", describe.	ľ	Γ	F
260	Substantially Identical Outfall [008] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.	r		— [~
270	Substantially Identical Outfall [010] Free of Evidence of Erosion? If "No", describe.	l exa		T
280	Substantially Identical Outfall [010] Flow Dissipation Devices Operating Effectively? If "No", describe.			
290	Substantially Identical Outfall [010] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.	T		
300	Substantially Identical Outfall [011] Free of Evidence of Erosion? If "No", describe.			
310	Substantially Identical Outfall [011] Flow Dissipation Devices Operating Effectively? If "No", describe.			<u></u>
320	Substantially Identical Outfall [011] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.			
Contr descr	ol Measures (identify needed maintenance and repairs, failed control measures that need responsive actions in relevant task comments).	placment, c	or a	
340	Asphalt Berm [0300403040001] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	Г	_	T.
350	Asphalt Berm [0300403040006] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		_ <u></u>	
360	Asphalt Berm [0300403040007] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			
370	Asphalt Berm [0300403040008] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			
380	Asphalt Berm [0300403040009] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	20002		
390	Asphalt Berm [0300403040010] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			
400	Gravel Bags [0300403100002] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			
410	Gravel Bags [0300403100012] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<u> </u>	
420	Gravel Bags [0300403100013] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			
430	Gravel Bags [0300403100014] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	r		
440	Gravel Bags [0300403100015] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			
450	Gravel Bags [0300403100016] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			
460	Concrete/Asphalt Channel/Swale [0300404020003] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			
470	Concrete/Asphalt Channel/Swale [0300404020005] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	ľ	Г	
480	Concrete/Asphalt Channel/Swale [0300404020024] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	r		
190	Concrete/Asphalt Channel/Swale [0300404020025] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		Г	
500	Concrete/Asphalt Channel/Swale [0300404020037] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	1	Г	I —
510	Concrete/Asphalt Channel/Swale [300404020004] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		Г	F
520	Eco-Block [0300403110018] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			
530	Eco-Block [0300403110019] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	9	Г	- <u>-</u> -
540	Eco-Block [0300403110020] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	T	r	·
550	Eco-Block [0300403110021] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		r	

560	Infiltration Basin [0300405060023] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		Г	F
 570	 Rock Channel/Swale [0300404030026] Control Measure is operating effectively? If "No" —— describe condition & need for Maintenance, Repair, or Replacement. 			[~
580	Rock Channel/Swale [0300404030027] Control Measure is operating effectively? If "No"			
	describe condition & need for Maintenance, Repair, or Replacement. Rock Channel/Swale [0300404030028] Control Measure is operating effectively? If "No"			
590	describe condition & need for Maintenance, Repair, or Replacement. Rock Channel/Swale [0300404030029] Control Measure is operating effectively? If "No"	<u> </u>		<u>F</u>
600	describe condition & need for Maintenance, Repair, or Replacement.			
610	Rock Channel/Swale [0300404030030] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			
620	Rock Channel/Swale [0300404030031] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	Γ	Г	
630	Erosion Control Blanket [0300401060032] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			
640	Rip Rap [0300404060033] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			
650	Rip Rap [0300404060038] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			<u> </u>
	Rip Rap [0300404060039] Control Measure is operating effectively? If "No" describe			<u></u>
660	condition & need for Maintenance, Repair, or Replacement. Retaining Wall [0300403080034] Control Measure is operating effectively? If "No"	<u>_</u>		
670	describe condition & need for Maintenance, Repair, or Replacement.			
680	Trench Drain [0300409040035] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			
690	Trench Drain [0300409040036] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	Т		
700	EnviroSoxx w/ MetalLoxx [0300403200040] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	F		
710	EnviroSoxx w/ MetalLoxx [0300403200041] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			
720	EnviroSoxx w/ MetalLoxx [0300403200043] Control Measure is operating effectively? If			
Per Salah	"No" describe condition & need for Maintenance, Repair, or Replacement. EnviroSoxx w/ MetalLoxx [0300403200044] Control Measure is operating effectively? If			
730	"No" describe condition & need for Maintenance, Repair, or Replacement.			
Area/A	ctivity exposed to stormwater (identify needed mainteance or a description of corrective a nt).	ctions in rel	evant t	ask
750	Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	.1	г	r-
760	Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.	F	I	
770	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.			
780	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.			
	Industrial processing and finished product storage areas: controls adequate (appropriate,			
790	effective, and operating)? If "No" describe. Equipment operation and maintenance areas: controls adequate (appropriate, effective,			1
800	and operating)? If "No" describe. Fueling areas: controls adequate (appropriate, effective, and operating)? If "No"			
810	describe.	T_		
820	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		r-	_
830	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.			F/
840	Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe.			F
850	Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.		<u></u>	
860	Locations and sources of run-on to the site: controls adequate (appropriate, effective,	T	$\overline{\Gamma}$	

***************************************	and operating)? If "No" describe.	######################################			
870	Non-stormwater/illicit connections: controls adequate (appropriate, effective, and operating)? If "No" describe.				
880	Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.		Г		
890	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.		r		
900	Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe.	e need	15	clea	aned
910	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe.		r	BACK SAM	
Non-C	Compliance				
930	Free of incidents of observed non-compliance not already identified above? If "No" describe.			T	T-
Additi	onal Control Measures				
950	Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed.				<u> </u>
Labor					
Labor	Assigned Work Date	Reg Hrs	OT Hr	s Oth	er Hrs
Burgin	, Jillian 11/1/2018 / 1				Marie Ma
Compl Report					
~*************************************		ATTENDED TO SEE TO AND THE SECOND SEC			
/O ID: <u>Y</u>	MSGP-R1-63344 Page 4 of 4				
ame/Z#:	Tillian Burgin/211081				
gnature (le	e information as recorded is true, accurate and complete."	118			
confirm the	e information as recorded is true, accurate and complete."	S AM			
	CERTIFICATION STATEMENT				
esigned to a anage the s ue, accurat	der penalty of law that this document and all attachments were prepared under my direction or superviassure that qualified personnel properly gathered and evaluated the information submitted. Based on m system, or those persons directly responsible for gathering information, the information submitted is, the, and complete. I am aware that there are significant penalties for submitting false information, including for knowing violations.	ny inquiry of o the best of	the per my kno	son or p wledge	ersons who and belief,
ignatory ı	must meet definition in Section B.11.A, eg., FOD, Ops Mgr, DESH Group Leader, EPC Group Le	eader)			

Print name and title: Russell Stone DESTI-COES GC

Signature: Date: 12/14/2018

Los Alamos National Lab - ADFSH

220

230

240

250

"No", describe.

"No", describe,

and/or Receiving Water? If "No", describe.

Work Order MSGP-RI-63444

MSGP Routine Inspection Printed 12/17/2018 - 4:43 PM

Maintenance Details Requested: 12/17/2018 4:33:13 PM Target: 12/31/2018 MSGP Program Procedure: MSGP Routine Facility Priority/Type: Normal / Inspection 品 RG121.9 Inspection (EPC-CP-Form-Department: Utilities and Infrastructure TA-3-22 Power & Steam Plant 1020.1) Last PM: 11/29/2018 Contact: Project: Routine Facility Inspections Insp done Phone: Dec. 2018 (P-MSGP-RI-5353) 12/18/18 Reason: 2018 December Inspections 1:00 - 2:00 pm. Tasks Description Meas. No N/A Yes **Weather Information** 460 Fair Describe the weather at time of inspection and document the temperature (F°). 20 Within the Facility Boundary Is the facility free of new discharges of pollutants that have occurred since the last 40 inspection? If "Failed" describe. If "No" has a CAR been previously initiated for this new discharge? 50 60 Is the facility free of discharge of pollutants at the time of inspection? If "No" describe Is the facility free of evidence of, or the potential for, pollutants entering the drainage 70 system. If "No" describe. Outfall Inspection (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comment) Monitored Outfall [005] Free of Evidence of Erosion? If "No", describe. Monitored Outfall [005] Flow Dissipation Devices Operating Effectively? If "No", 100 describe. Monitored Outfall [005] Free of Evidence of Pollutants in Discharges and/or Receiving 110 Water? If "No", describe. 120 Monitored Outfall [009] Free of Evidence of Erosion? If "No", describe, Monitored Outfall [009] Flow Dissipation Devices Operating Effectively? If "No", 130 describe. Monitored Outfall [009] Free of Evidence of Pollutants in Discharges and/or Receiving 140 Water? If "No", describe. 150 Monitored Outfall [012] Free of Evidence of Erosion? If "No", describe. Monitored Outfall [012] Flow Dissipation Devices Operating Effectively? If "No", 160 describe. Monitored Outfall [012] Free of Evidence of Pollutants in Discharges and/or Receiving 170 Water? If "No", describe 180 Substantially Identical Outfall [006] Free of Evidence of Erosion? If "No", describe, Substantially Identical Outfall [006] Flow Dissipation Devices Operating Effectively? If 190 "No", describe. Substantially Identical Outfall [006] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. 200 Substantially Identical Outfall [007] Free of Evidence of Erosion? If "No", describe. 210 Substantially Identical Outfall [007] Flow Dissipation Devices Operating Effectively? If

Substantially Identical Outfall [007] Free of Evidence of Pollutants in Discharges

Substantially Identical Outfall [008] Free of Evidence of Erosion? If "No", describe Substantially Identical Outfall [008] Flow Dissipation Devices Operating Effectively? If

260	Substantially Identical Outfall [008] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.	_	г	T
270	Substantially Identical Outfall [010] Free of Evidence of Erosion? If "No", describe.	·		
	Substantially Identical Outfall [010] Flow Dissipation Devices Operating Effectively? If "No", describe.			
280	Substantially Identical Outfall [010] Free of Evidence of Pollutants in Discharges		-	
290	and/or Receiving Water? If "No", describe.			
300	Substantially Identical Outfall [011] Free of Evidence of Erosion? If "No", describe.			-
310	Substantially Identical Outfall [011] Flow Dissipation Devices Operating Effectively? If "No", describe.			
320	Substantially Identical Outfall [011] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		Г_	
Contro	- I Measures (identify needed maintenance and repairs, failed control measures that need replac	ment, o	a	
descrip	ction of corrective actions in relevant task comments).			
	Asphalt Berm [0300403040001] Control Measure is operating effectively? If "No"	/	- FOLORIE	2000
340	describe condition & need for Maintenance, Repair, or Replacement. See CHR 1438			
350	Asphalt Berm [0300403040006] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	Г		Jul 1
	Asphalt Berm [0300403040007] Control Measure is operating effectively? If "No"			
360	describe condition & need for Maintenance, Repair, or Replacement.			
	Asphalt Berm [0300403040008] Control Measure is operating effectively? If "No"			
370	describe condition & need for Maintenance, Repair, or Replacement.			
380	Asphalt Berm [0300403040009] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			
	Asphalt Berm [0300403040010] Control Measure is operating effectively? If "No"			
390	describe condition & need for Maintenance, Repair, or Replacement.			-
	Gravel Bags [0300403100002] Control Measure is operating effectively? If "No"			
400	describe condition & need for Maintenance, Repair, or Replacement.			4
	Gravel Bags [0300403100012] Control Measure is operating effectively? If "No"			
410	describe condition & need for Maintenance, Repair, or Replacement.			سيا
420	Gravel Bags [0300403100013] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	Г	Г	
	Gravel Bags [0300403100014] Control Measure is operating effectively? If "No"			
430	describe condition & need for Maintenance, Repair, or Replacement.			~
	Gravel Bags [0300403100015] Control Measure is operating effectively? If "No"			
440	describe condition & need for Maintenance, Repair, or Replacement.			
	Gravel Bags [0300403100016] Control Measure is operating effectively? If "No"			
450	describe condition & need for Maintenance, Repair, or Replacement.			-
	Concrete/Asphalt Channel/Swale [0300404020003] Control Measure is operating			
460	effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	Г		
	Concrete/Asphalt Channel/Swale [0300404020005] Control Measure is operating			
470	effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	Г	Г	
	Concrete/Asphalt Channel/Swale [0300404020024] Control Measure is operating			
480	effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	Г	Г	F /
100	Concrete/Asphalt Channel/Swale [0300404020025] Control Measure is operating			
490	effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	г	г	
450	Concrete/Asphalt Channel/Swale [0300404020037] Control Measure is operating			
500	effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	_	_	
500				
540	Concrete/Asphalt Channel/Swale [300404020004] Control Measure is operating	-		,
510	effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			
	Eco-Block [0300403110018] Control Measure is operating effectively? If "No" describe	na sinenia	-	-
520	condition & need for Maintenance, Repair, or Replacement.			
	Eco-Block [0300403110019] Control Measure is operating effectively? If "No" describe	100,000	Marchael	
530	condition & need for Maintenance, Repair, or Replacement.		二二	- Land
	Eco-Block [0300403110020] Control Measure is operating effectively? If "No" describe		Min-era	
540	condition & need for Maintenance, Repair, or Replacement.			
	Eco-Block [0300403110021] Control Measure is operating effectively? If "No" describe			
550	condition & need for Maintenance, Repair, or Replacement.			
	Infiltration Basin [0300405060023] Control Measure is operating effectively? If "No"			
560	describe condition & need for Maintenance, Repair, or Replacement.			سا

570	Rock Channel/Swale [0300404030026] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	П		-
580	Rock Channel/Swale [0300404030027] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	Г		[/
590	Rock Channel/Swale [0300404030028] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	Г		[·
600	Rock Channel/Swale [0300404030029] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	П		
610	Rock Channel/Swale [0300404030030] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	Г		
620	Rock Channel/Swale [0300404030031] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			-
630	Erosion Control Blanket [0300401060032] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		П	
640	Rip Rap [0300404060033] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			_
650	Rip Rap [0300404060038] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			~
660	Rip Rap [0300404060039] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	Г		_
670	Retaining Wall [0300403080034] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			1
680	Trench Drain [0300409040035] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	П	Г	F
690	Trench Drain [0300409040036] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			[]
700	EnviroSoxx w/ MetalLoxx [0300403200040] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	П	Г	
<u>710</u>	EnviroSoxx w/ MetalLoxx [0300403200041] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	П	П	
720	EnviroSoxx w/ MetalLoxx [0300403200043] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		П	Tiv
730	EnviroSoxx w/ MetalLoxx [0300403200044] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		Г	F /
Area/A	activity exposed to stormwater (identify needed mainteance or a description of corrective a	ctions in rele	evant t	ask
750	Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	F/	П	Г
760	Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.	Г	Г	<u></u>
770	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.		Г	
780	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.			Г
790	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	Г		F/
800	Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		Г	
810	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	Г		[-
820	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	Г	F/	
830	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.	П		
840	Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe.			
850	Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.		Г	
860	Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.			
870	Non-stormwater/illicit connections: controls adequate (appropriate, effective, and			

	operating)? If "No" describe.					
088	Salt storage piles or pile containing salt: containing salt: containing)? If "No" describe.	rols adequate (appropriate, effective, and				
390	Dust generation and vehicle tracking: controls operating)? If "No" describe.					
900	Housekeeping (Industrial materials/residues/tadequate (appropriate, effective, and operation	ng)? If "No" describe.			Г	<u> </u>
10	Leaks and spills: controls adequate (appropridescribe.	ate, effective, and operating)? If "No"				<u> </u>
Non-Co	ompliance					
930	Free of incidents of observed non-compliance describe.	e not already identified above? If "No"				
Additio	nal Control Measures					
950	Are permit requirements satisfied with existin additional control measures needed.	g control measure(s)? If "No" describe			П	<u></u>
abor		Andrea			management of a legic in the appearance	in tilen vekstir som over menne
Labor		Assigned Work Date	Reg Hrs	OT Hrs	Othe	r Hrs
Burgin,	Jillian er, Holly	12/17/2018 / 1 12/17/2018 / 1		-		
Report	:					
	156P-R1-63444 Page_		8432			
ne/Z#:	J. Burgin Duose for	Holly wheeless In		2100	Per	
ne/Z#: nature (le		Holly wheeler 119		2:0e	Pro	
me/Z#: nature (le	ead inspector): Though a complete.	Holly wheeler 119		2:00	Prec	

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

Print name and title: Russell Stone, GL DESH-UES

Signature: Received Date: 1/11/2019

Los Alamos National Lab - ADESH

Work Order MSGP-RI-63453

MSGP Routine Inspection Printed 1/15/2019 - 2:22 PM

	- 4
Maintenance	Details —

Requested: 1/15/2019 2:08:54 PM

Procedure: MSGP Routine Facility
Inspection (EPC-CP-Form-

1020.1)

Last PM: 11/29/2018

Project: Routine Facilit

Routine Facility Inspections Jan. 2019 (P-MSGP-RI-

5352)

Reason: MSGP Routine Facility Inspection

Target: 1/31/2019

Priority/Type: Normal / Inspection

Department: Utilities and Infrastructure

MSGP Program

品 RG121.9

🖒 TA-3-22 Power & Steam Plant

2000, 1/30/19 Contact: Phone:

Tasks Description Meas. Nο N/A Yes Weather Information Describe the weather at time of inspection and document the temperature (F°) Within the Facility Boundary Is the facility free of new discharges of pollutants that have occurred since the last 40 inspection? If "Failed" describe. 50 If "No" has a CAR been previously initiated for this new discharge? 60 Is the facility free of discharge of pollutants at the time of inspection? If "No" describe. Is the facility free of evidence of, or the potential for, pollutants entering the drainage 70 system, If "No" describe. Outfall Inspection (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comment) Monitored Outfall [005] Free of Evidence of Erosion? If "No", describe. Monitored Outfall [005] Flow Dissipation Devices Operating Effectively? If "No". 100 describe. Monitored Outfall [005] Free of Evidence of Pollutants in Discharges and/or Receiving 110 Water? If "No", describe. 120 Monitored Outfall [009] Free of Evidence of Erosion? If "No", describe. snow covered Monitored Outfall [009] Flow Dissipation Devices Operating Effectively? If "No". í١ 130 describe. Monitored Outfall [009] Free of Evidence of Pollutants in Discharges and/or Receiving 140 Water? If "No", describe. 150 Monitored Outfall [012] Free of Evidence of Erosion? If "No", describe. Monitored Outfall [012] Flow Dissipation Devices Operating Effectively? If "No", 160 describe. Monitored Outfall [012] Free of Evidence of Pollutants in Discharges and/or Receiving 170 Water? If "No", describe. 180 Substantially Identical Outfall [006] Free of Evidence of Erosion? If "No", describe, Substantially Identical Outfall [006] Flow Dissipation Devices Operating Effectively? If 190 "No", describe. Substantially Identical Outfall [006] Free of Evidence of Pollutants in Discharges 200 and/or Receiving Water? If "No", describe. 210 Substantially Identical Outfall [007] Free of Evidence of Erosion? If "No", describe. Substantially Identical Outfall [007] Flow Dissipation Devices Operating Effectively? If 220 Substantially Identical Outfall [007] Free of Evidence of Pollutants in Discharges .. 230 and/or Receiving Water? If "No", describe. 240 Substantially Identical Outfall [008] Free of Evidence of Erosion? If "No", describe. 250 Substantially Identical Outfall [008] Flow Dissipation Devices Operating Effectively? If "No", describe,

260	Substantially Identical Outfall [008] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.	sle	Б	
270	Substantially Identical Outfall [010] Free of Evidence of Erosion? If "No", describe.	SIL		
280	Substantially Identical Outfall [010] Flow Dissipation Devices Operating Effectively? In "No", describe.			F D
290	Substantially Identical Outfall [010] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		П	
300	Substantially Identical Outfall [011] Free of Evidence of Erosion? If "No", describe.	510		
310	Substantially Identical Outfall [011] Flow Dissipation Devices Operating Effectively? If "No", describe.			г у П
320	Substantially Identical Outfall [011] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.	13	п	ГV П
	ol Measures (identify needed maintenance and repairs, failed control measures that ption of corrective actions in relevant task comments).	need replac	nent, o	ra
340	Asphalt Berm [0300403040001] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	SIC	г	F D
350	Asphalt Berm [0300403040006] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	L.V.		<u>г</u>
360	Asphalt Berm [0300403040007] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		Е	FI
370	Asphalt Berm [0300403040008] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	15	П	F D
380	Asphalt Berm [0300403040009] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	į.	Г	PI
390	Asphalt Berm [0300403040010] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	ıc		FI
400	Gravel Bags [0300403100002] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	**		FF
410	Gravel Bags [0300403100012] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			F
420	Gravel Bags [0300403100013] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		Г	FI
430	Gravel Bags [0300403100014] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	n		
440	Gravel Bags [0300403100015] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	K	Г.	
<u>450</u>	Gravel Bags [0300403100016] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	10	30/109	F
460	Concrete/Asphalt Channel/Swale [0300404020003] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	QD	- Jack	
<u>470</u>	Concrete/Asphalt Channel/Swale [0300404020005] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	JB 1/30		
480	Concrete/Asphalt Channel/Swale [0300404020024] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. Concrete/Asphalt Channel/Swale [0300404020025] Control Measure is operating	OB 1/201		
490	effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	JB 1/30	M	
500	Concrete/Asphalt Channel/Swale [0300404020037] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. Concrete/Asphalt Channel/Swale [300404020004] Control Measure is operating	Op 1/30	Time.	
510	effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	DB 1/30	The state of the s	
520	Eco-Block [0300403110018] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. Eco-Block [0300403110019] Control Measure is operating effectively? If "No" describe	Sie	ഥ.	<u> </u>
530	condition & need for Maintenance, Repair, or Replacement. Eco-Block [0300403110020] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		п_	
540	condition & need for Maintenance, Repair, or Replacement.	, (П	r r
550	Eco-Block [0300403110021] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		П.	
560	Infiltration Basin [0300405060023] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement	**		

570	Rock Channel/Swale [0300404030026] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	5lc	Li	F	
580	Rock Channel/Swale [0300404030027] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	ζ1	Г	「	
590	Rock Channel/Swale [0300404030028] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	11		T _V	Г
600	Rock Channel/Swale [0300404030029] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	11	П	[V	П
610	Rock Channel/Swale [0300404030030] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	ц	Г	TV	г
620	Rock Channel/Swale [0300404030031] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	u	Г	T	Г
630	Erosion Control Blanket [0300401060032] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	Sle	Г	~	П
640	Rip Rap [0300404060033] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	**	Г	1	П
650	Rip Rap [0300404060038] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	15	Г	I	Г
660	Rip Rap [0300404060039] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	11	Г	1	Г
670	Retaining Wall [0300403080034] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	17.13	ام	Б	[~
680	Trench Drain [0300409040035] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.				F-
690	Trench Drain [0300409040036] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.				[-
700	EnviroSoxx w/ MetalLoxx [0300403200040] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	SIL		[~	Б
710	EnviroSoxx w/ MetalLoxx [0300403200041] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		П	[V	
720	EnviroSoxx w/ MetalLoxx [0300403200043] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	,.	П	~	г
730	EnviroSoxx w/ MetalLoxx [0300403200044] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	ic	Г	1	Г
Area/A	ctivity exposed to stormwater (identify needed mainteance or a description of correction of	ve actions	in rele	vant ta	sk
750	Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	•	5113	(19) 	
760	Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.	613	30(10)		[V
770	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.	00 ·1	20/19		
780	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.	OB 11	10/19		F
790	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	7B 1/3	0119	г	Te
800	Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	Qp 1/	3010	F	TV
810	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	OB 1/3	1 -	г	[·
820	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		~	[·	Г
830	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.	B1/30/1	NO OF		-
840	Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	780 1/30	W	П	
850	Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.	03 1/3	0/19	Б	-
960	Locations and sources of run-on to the site: controls adequate (appropriate, effective,	or 1/8	وراه	_	_/
860 870	and operating)? If "No" describe. Non-stormwater/illicit connections: controls adequate (appropriate, effective, and	Olo .	<u>Г</u>	1	Г

880				
	Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.	п		
890	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.			~
900	Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe.	П	Vancous	F
910	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe.	F		
Non-Co	mpliance Vaines repaired (lot. water the) CAR # 1466 Free of incidents of observed non-compliance not already identified above? If "No"			
930	describe.		Ti.	1
Additio	nal Control Measures			
950	Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed.		Г.	<u></u>
abor				
Labor Burgin,	Assigned Work Date Reg Hrs 1/15/2019 / 1	OT Hrs	Othe	er Hrs
abor R	eport			
Comple	eted:			
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ID:	156P-R1-63453 Page 4 of 4			
ID: \\'				
ne/Z#:	1569-R1-63453 Page 4 of 4 511.an Burgin (21081) d inspector): Paragra, Deptember 2013019			
ne/Z#:	156P-R1-63453 Page 4 of 4 Jillian Burgin (211081	\		
ne/Z#:	1569-R1-63453 Page 4 of 4 511.an Burgin (21081) d inspector): Paragra, Deptember 2013019	\		
nature (lea onfirm the i	186-R1-63453 Page 4 of 4 Sillian Byrgin (21108) d inspector): Paragram, PP (CISC Date and Time: 130119) information as recorded is true, accurate and complete."	rdance w f the perso my knov	on or pe	ersons wh and belie:
ne/Z#:	Description of law that this document and all attachments were prepared under my direction or supervision in acconstruct that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of stem, or those persons directly responsible for gathering information, the information submitted is, to the best of and complete. I am aware that there are significant penalties for submitting false information, including the poss for knowing violations".	rdance w f the perso my knov	on or pe	ersons wh and belie:
ne/Z#:	CERTIFICATION STATEMENT The penalty of law that this document and all attachments were prepared under my direction or supervision in accordant accordant to the personnel properly gathered and evaluated the information submitted. Based on my inquiry of stem, or those persons directly responsible for gathering information, the information submitted is, to the best of and complete. I am aware that there are significant penalties for submitting false information, including the poss for knowing violations. The penalty of law that this document and all attachments were prepared under my direction or supervision in acconstruction, or those personnel properly gathered and evaluated the information submitted is, to the best of and complete. I am aware that there are significant penalties for submitting false information, including the poss for knowing violations. State of the personnel properly gathered and evaluated the information submitted is, to the best of and complete. I am aware that there are significant penalties for submitting false information, including the poss for knowing violations.	rdance w f the perso my knov	on or pe	ersons wh and belief

Los Alamos National Lab - ALDESHQSS

Work Order MSGP-RI-63465

MSGP Routine Inspection Printed 2/12/2019 - 9:04 AM

Maintenance Details

Requested: 2/12/2019 8:59:46 AM

Procedure: MSGP Routine Facility

Inspection (EPC-CP-Form-

1020.2)

12/18/2018

Project:

Last PM:

Tasks

Routine Facility Inspections Feb. 2019 (P-MSGP-RI-

5354)

Reason: 2019 February Inspections

Target: 2/28/2019

Insp done:

Priority/Type: Normal / Inspection

Department: Utilities and Infrastructure

MSGP Program 品 RG121.9

[♣] TA-3-22 Power & Steam Plant

Contact: Phone:

2127/19

1:30 - 2:10 PM

#	Description	Meas.	No	N/A	Yes
Weatl	her Information				
20	Describe the weather at time of inspection and document the temperature (F°). 50 °	Pla			
Withi	n the Facility Boundary	-			
	Is the facility free of new discharges of pollutants that have occurred since the last				
40	inspection? If "Failed" describe.				
50	If "No" has a CAR been previously initiated for this new discharge?				
60	Is the facility free of discharge of pollutants at the time of inspection? If "No" describe.			Г	1
70	Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe.		_6_		Ti-
Outfa descr	Il Inspection (identify needed maintenance and repairs, failed control measures that ne iption of corrective actions in relevant task comment)	ed replace	ment,	or a	k
90	Monitored Outfall [005] Free of Evidence of Erosion? If "No", describe.				~
	Monitored Outfall [005] Flow Dissipation Devices Operating Effectively? If "No",				
100	describe.				5
110	Monitored Outfall [005] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.				F
120	Monitored Outfall [005] Free of any unauthorized non-stormwater discharges? If "No" describe.		Di.	Б	
130	Monitored Outfall [009] Free of Evidence of Erosion? If "No", describe.	ered	П	-	
140	Monitored Outfall [009] Flow Dissipation Devices Operating Effectively? If "No", describe.	19	П		П
150	Monitored Outfall [009] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		Г		П
160	Monitored Outfall [009] Free of any unauthorized non-stormwater discharges? If "No" describe.	e.	Г		П
170	Monitored Outfall [012] Free of Evidence of Erosion? If "No", describe.	ored		T	
180	Monitored Outfall [012] Flow Dissipation Devices Operating Effectively? If "No", describe.	· N	П	[_	П
190	Monitored Outfall [012] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.	M	Г	[]	П
200	Monitored Outfall [012] Free of any unauthorized non-stormwater discharges? If "No" describe.		Г	[V	Г
210	Substantially Identical Outfall [006] Free of Evidence of Erosion? If "No", describe.	N CAV.	Г	~	
220	Substantially Identical Outfall [006] Flow Dissipation Devices Operating Effectively? If "No", describe.	n	Г	1	Г
230	Substantially Identical Outfall [006] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.	Łŧ		-	П
240	Substantially Identical Outfall [006] Free of any unauthorized non-stormwater discharges? If "No" describe.	u		F.	F

250	Substantially Identical Outfall [007] Free of Evidence of Erosion? If "No", describe.	w cov	<u>. L</u>	<u> </u>	Г
260	Substantially Identical Outfall [007] Flow Dissipation Devices Operating Effectively? If "No", describe.	u	Г		Г
270_	Substantially Identical Outfall [007] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.	*1		5	Г
280	Substantially Identical Outfall [007] Free of any unauthorized non-stormwater discharges? If "No" describe.				Г
90	Substantially Identical Outfall [008] Free of Evidence of Erosion? If "No", describe.	w co			
00	Substantially Identical Outfall [008] Flow Dissipation Devices Operating Effectively? If "No", describe.				
10	Substantially Identical Outfall [008] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		Б	T-	П
20_	Substantially Identical Outfall [008] Free of any unauthorized non-stormwater discharges? If "No" describe.		Г	[-	П
30	Substantially Identical Outfall [010] Free of Evidence of Erosion? If "No", describe.	- nst	с. Г	T-	
10	Substantially Identical Outfall [010] Flow Dissipation Devices Operating Effectively? If "No", describe.		Г	[v	
50	Substantially Identical Outfall [010] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		Г		
30	Substantially Identical Outfall [010] Free of any unauthorized non-stormwater discharges? If "No" describe.				
'0	Substantially Identical Outfall [011] Free of Evidence of Erosion? If "No", describe.	W COV		1	П
30	Substantially Identical Outfall [011] Flow Dissipation Devices Operating Effectively? If "No", describe.		Г	- Tu	
90	Substantially Identical Outfall [011] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		П	Jī	
00	Substantially Identical Outfall [011] Free of any unauthorized non-stormwater discharges? If "No" describe.				
20	Asphalt Berm [0300403040001] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			<u>.F.</u>	1
30	Asphalt Berm [0300403040006] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.				
10	Asphalt Berm [0300403040007] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.				-
0	Asphalt Berm [0300403040008] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.				
0	Asphalt Berm [0300403040009] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		_6_		
0	Asphalt Berm [0300403040010] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.				TV
0	Gravel Bags [0300403100002] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			П	T
0	Gravel Bags [0300403100012] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.				T
0	Gravel Bags [0300403100013] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.				-
0	Gravel Bags [0300403100014] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.				F
.0	Gravel Bags [0300403100015] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			Г.	T-
0	Gravel Bags [0300403100016] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.				-
0	Concrete/Asphalt Channel/Swale [0300404020003] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			<u></u>	استا
0	Concrete/Asphalt Channel/Swale [0300404020005] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.				-
	Concrete/Asphalt Channel/Swale [0300404020024] Control Measure is operating				

570	Concrete/Asphalt Channel/Swale [0300404020025] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	_3	=		
580	Concrete/Asphalt Channel/Swale [0300404020037] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		Б	TV	
590	Concrete/Asphalt Channel/Swale [300404020004] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.				
600	Eco-Block [0300403110018] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.				
610	Eco-Block [0300403110019] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		П	「レ	
620	Eco-Block [0300403110020] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.				
630	Eco-Block [0300403110021] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			[·	
640	Infiltration Basin [0300405060023] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			<u></u>	
650	Rock Channel/Swale [0300404030026] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			<u></u>	
660	Rock Channel/Swale [0300404030027] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.				
670	Rock Channel/Swale [0300404030028] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	<u>. []</u>			
680	Rock Channel/Swale [0300404030029] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.				
690	Rock Channel/Swale [0300404030030] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	, Гіі			
700	Rock Channel/Swale [0300404030031] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			I	
710	Erosion Control Blanket [0300401060032] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			-	
720	Rip Rap [0300404060033] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			-	
730	Rip Rap [0300404060038] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		Г	-	
740	Rip Rap [0300404060039] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	_اتا			
750	Retaining Wall [0300403080034] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			Tu-	
760	Trench Drain [0300409040035] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			C.	
770	Trench Drain [0300409040036] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			F	
780	EnviroSoxx w/ MetalLoxx [0300403200040] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	П			
790	EnviroSoxx w/ MetalLoxx [0300403200041] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			F	
800	EnviroSoxx w/ MetalLoxx [0300403200043] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			TV	
810	EnviroSoxx w/ MetalLoxx [0300403200044] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			F	
Area/A	activity exposed to stormwater (identify needed mainteance or a description of corrective action ent).	s in rel	evant t	ask (ne	2+
830	Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	m f	arp	-	46
840	Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.	Г	П		
850	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.	F	Г		
860	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.			Te/	
				I	

870	Industrial processing and finished product storage areas: conti effective, and operating)? If "No" describe.	rols ade	quate (appropriate,				
880	Equipment operation and maintenance areas: controls adequa and operating)? If "No" describe.	ate (appr	opriate, effective,		. ——.		~
890	Fueling areas: controls adequate (appropriate, effective, and o describe.					_	
900	Outdoor vehicle and equipment washing areas: controls adequand operating)? If "No" describe.	uate (ap	propriate, effective,			[~ [
910	Machinery: controls adequate (appropriate, effective, and oper	rating)?	f "No" describe.				
920	Waste handling and disposal areas: controls adequate (approp operating)? If "No" describe.				П.		
930	Erodible areas/construction: controls adequate (appropriate, et	ffective,	and operating)? If	×			
940	Locations and sources of run-on to the site: controls adequate and operating)? If "No" describe.	(approp	riate, effective,	*			
950	Salt storage piles or pile containing salt: controls adequate (ap operating)? If "No" describe.	propriat	e, effective, and			F/ I	
960	Dust generation and vehicle tracking: controls adequate (approperating)? If "No" describe.	opriate, e	effective, and				~
970	Housekeeping (Industrial materials/residues/trash in contact windustrials adequate (appropriate, effective, and operating)? If "No" descri		water). controls				_
980	Leaks and spills: controls adequate (appropriate, effective, and describe.	d operati	ng)? If "No"		Б	D 0	
Non-Co	ompliance Free of incidents of observed non-compliance not already iden	tified ab	ove? If "No"				
1000	describe.						
Additio	nal Control Measures Are permit requirements satisfied with existing control measure	/-\^ IE !!!	Nall dagariba				
1020	additional control measures needed.	s(S) ! II I				ГГ	
abor							
Labor Burgin,	Jillian Assign 2/11/20		Work Date	Reg Hrs	OT Hrs	Other I	drs
abor R	Report						
Comple	eted:						
Report:	· · · · · · · · · · · · · · · · · · ·						
Bu	ugin Jillian Burgin DEP, CISE	٥	Sing day / Nove		ءاح_	27/19	곡
confirm	Signature / Name Date n the information as recorded is true, accurate and complete		Signature / Name			Date 💍	1:10 P

Print name and title:	Elissell Stone	GL DEHILLS	
Signature:	Result &	Date:	3/8/2019

Work Order MSGP-RI-63474

MSGP Routine Inspection Printed 2/26/2019 - 12:07 PM

Maintenance Details

Requested: 2/26/2019 11:51:35 AM

Procedure: MSGP Routine Facility

Inspection (EPC-CP-Form-

1020.2)

Last PM: 12/18/2018

Project: Routine Facility Inspections

March 2019 (P-MSGP-RI-

5355)

Reason: 2019 March Inspections

Target: 3/31/2019

Inop done

Priority/Type: Normal / Inspection

3127/19

Department: Utilities and Infrastructure

MSGP Program 品 RG121.9

TA-3-22 Power & Steam Plant

Contact:

Phone:

1:00 - 1:45 PM

asks					
#	Description	Meas.	No	N/A	Yes
Veatl	ner Information				
20	Describe the weather at time of inspection and document the temperature (F°). 69	clear			<u></u>
Vithi	n the Facility Boundary	Sun	ny		
10	Is the facility free of new discharges of pollutants that have occurred since the last inspection? If "Failed" describe.			п	F-/
0	If "No" has a CAR been previously initiated for this new discharge?			-	
0	Is the facility free of discharge of pollutants at the time of inspection? If "No" describe.				
0	Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe.			П	
descr	II Inspection (identify needed maintenance and repairs, failed control measures that nee iption of corrective actions in relevant task comment)	ed replace	ment,	or a	
90	Monitored Outfall [005] Free of Evidence of Erosion? If "No", describe.			ᅳ	
100	Monitored Outfall [005] Flow Dissipation Devices Operating Effectively? If "No", describe. As phalt Swale Clean- a Monitored Outfall [005] Free of Evidence of Pollutants in Discharges and/or Receiving	of UAR	# (4		
10	Monitored Outfall [005] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.				
	Monitored Outfall [005] Free of any unauthorized non-stormwater discharges? If "No"		_	_	_
20	describe.				
30	Monitored Outfall [009] Free of Evidence of Erosion? If "No", describe. Monitored Outfall [009] Flow Dissipation Devices Operating Effectively? If "No",		10		
40	describe. Wetallox wattles needs change - out. CHE	# 1485	F		
50	Monitored Outfall [009] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.				
60	Monitored Outfall [009] Free of any unauthorized non-stormwater discharges? If "No" describe.		П	Б.	
70	Monitored Outfall [012] Free of Evidence of Erosion? If "No", describe.		E		
80	Monitored Outfall [012] Flow Dissipation Devices Operating Effectively? If "No", describe.			П	
90	Monitored Outfall [012] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		Г	П	
00	Monitored Outfall [012] Free of any unauthorized non-stormwater discharges? If "No" describe.		П		r.
10	Substantially Identical Outfall [006] Free of Evidence of Erosion? If "No", describe.			Tu.	T-
20	Substantially Identical Outfall [006] Flow Dissipation Devices Operating Effectively? If "No", describe.			Г	
30	Substantially Identical Outfall [006] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		Г	Г	Γυ'
40	Substantially Identical Outfall [006] Free of any unauthorized non-stormwater discharges? If "No" describe				

250	Substantially Identical Outfall [007] Free of Evidence of Erosion? If "No", describe.				F	1
260	Substantially Identical Outfall [007] Flow Dissipation Devices Operating Effectively? If "No", describe.			Fi		
270	Substantially Identical Outfall [007] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.					
280	Substantially Identical Outfall [007] Free of any unauthorized non-stormwater discharges? If "No" describe.					
290	Substantially Identical Outfall [008] Free of Evidence of Erosion? If "No", describe.					
300	Substantially Identical Outfall [008] Flow Dissipation Devices Operating Effectively? If "No", describe.		——— ——————————————————————————————————			1
310	Substantially Identical Outfall [008] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.			-	<u> </u>	
	Substantially Identical Outfall [008] Free of any unauthorized non-stormwater discharges? If "No" describe.					
320		601.0	47.00			
330	Substantially Identical Outfall [010] Free of Evidence of Erosion? If "No", describe.	7	7		ec 6	u coastr.
340	Substantially Identical Outfall [010] Flow Dissipation Devices Operating Effectively? If "No", describe.	7		⊋ [√		project
	Substantially Identical Outfall [010] Free of Evidence of Pollutants in Discharges	CARS	= 148	10		350
350	and/or Receiving Water? If "No", describe. Culvert needs clean-	-out	Ŋ	7		1100
360	Substantially Identical Outfall [010] Free of any unauthorized non-stormwater discharges? If "No" describe.		Г	П		# 1487
370	Substantially Identical Outfall [011] Free of Evidence of Erosion? If "No", describe.					
	Substantially Identical Outfall [011] Flow Dissipation Devices Operating Effectively? If		•			
380	"No", describe. Substantially Identical Outfall [011] Free of Evidence of Pollutants in Discharges			<u> [/</u>		
390	and/or Receiving Water? If "No", describe.					
400	Substantially Identical Outfall [011] Free of any unauthorized non-stormwater discharges? If "No" describe.					
	I Measures (identify needed maintenance and repairs, failed control measures that need tion of corrective actions in relevant task comments). Asphalt Berm [0300403040001] Control Measure is operating effectively? If "No"	ed replacn	nent, o	га		
420						
	describe condition & need for Maintenance, Repair, or Replacement.					
430	describe condition & need for Maintenance, Repair, or Replacement. Asphalt Berm [0300403040006] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			_E_	<u>[/</u>	
-	Asphalt Berm [0300403040006] Control Measure is operating effectively? If "No"	or mo	Γ Γ Γ	_D_		
430	Asphalt Berm [0300403040006] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. Asphalt Berm [0300403040007] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. Asphalt Berm [03004030400008] Control Measure is operating effectively? If "No"	or me	Г Р Г		F	
430 440 7 450	Asphalt Berm [0300403040006] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. Asphalt Berm [0300403040007] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. Asphalt Berm [0300403040008] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. Asphalt Berm [0300403040009] Control Measure is operating effectively? If "No"	or we				
430	Asphalt Berm [0300403040006] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. Asphalt Berm [0300403040007] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. Asphalt Berm [03004030400008] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. Asphalt Berm [0300403040009] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	or we			F	
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430 440 7 450 460	Asphalt Berm [0300403040006] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. Asphalt Berm [0300403040007] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. Asphalt Berm [0300403040008] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. Asphalt Berm [0300403040009] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. Asphalt Berm [0300403040010] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. Gravel Bags [0300403100002] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	or we				
430 440 7 450 460 470	Asphalt Berm [0300403040006] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. Asphalt Berm [0300403040007] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. Asphalt Berm [03004030400008] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. Asphalt Berm [0300403040009] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. Asphalt Berm [0300403040010] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. Gravel Bags [0300403100002] Control Measure is operating effectively? If "No"	or we				
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430 440 7 450 460 470 480 490 500	Asphalt Berm [0300403040006] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. Asphalt Berm [0300403040007] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. Asphalt Berm [0300403040008] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. Asphalt Berm [0300403040009] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. Asphalt Berm [0300403040010] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. Gravel Bags [0300403100002] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. Gravel Bags [0300403100012] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. Gravel Bags [0300403100013] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. Gravel Bags [0300403100013] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. Gravel Bags [0300403100014] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	or me				
430 440 7 450 460 470 480 490 500	Asphalt Berm [0300403040006] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. Asphalt Berm [0300403040007] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. Asphalt Berm [0300403040008] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. Asphalt Berm [0300403040009] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. Asphalt Berm [0300403040010] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. Gravel Bags [0300403100002] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. Gravel Bags [0300403100012] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. Gravel Bags [0300403100013] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. Gravel Bags [0300403100014] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. Gravel Bags [0300403100015] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	or me				
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430 440 7 450 460 470 480 490 500 510 520 530	Asphalt Berm [0300403040006] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. Asphalt Berm [0300403040007] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. Asphalt Berm [0300403040008] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. Asphalt Berm [0300403040009] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. Asphalt Berm [0300403040010] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. Gravel Bags [0300403100002] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. Gravel Bags [0300403100012] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. Gravel Bags [0300403100013] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. Gravel Bags [0300403100014] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. Gravel Bags [0300403100015] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. Gravel Bags [0300403100016] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. Concrete/Asphalt Channel/Swale [0300404020003] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. Concrete/Asphalt Channel/Swale [0300404020005] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.					Post-
430 440 7 450 460 470 480 490 500 510 520 530 540	Asphalt Berm [0300403040006] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. Asphalt Berm [0300403040007] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. Asphalt Berm [0300403040008] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. Asphalt Berm [0300403040009] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. Asphalt Berm [0300403040010] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. Gravel Bags [0300403100002] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. Gravel Bags [0300403100012] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. Gravel Bags [0300403100013] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. Gravel Bags [0300403100014] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. Gravel Bags [0300403100015] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. Gravel Bags [0300403100016] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. Concrete/Asphalt Channel/Swale [0300404020003] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. Concrete/Asphalt Channel/Swale [0300404020005] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	or me				Post- winter)

570	Concrete/Asphalt Channel/Swale [0300404020025] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.				
580	Concrete/Asphalt Channel/Swale [0300404020037] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	621-			
590	Concrete/Asphalt Channel/Swale [300404020004] Control Measure is operating (אבית אבר) effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	need	45	T CL	can-out
600	Eco-Block [0300403110018] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			I	
610	Eco-Block [0300403110019] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			<u></u>	
620	Eco-Block [0300403110020] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			<u></u>	
630	Eco-Block [0300403110021] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			<u> </u>	
640	Infiltration Basin [0300405060023] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	п			
650	Rock Channel/Swale [0300404030026] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.				
660	Rock Channel/Swale [0300404030027] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		П		
670	Rock Channel/Swale [0300404030028] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.				
680	Rock Channel/Swale [0300404030029] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			<u></u>	
690	Rock Channel/Swale [0300404030030] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.				
700	Rock Channel/Swale [0300404030031] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.				
710	Erosion Control Blanket [0300401060032] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.				
720	Rip Rap [0300404060033] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		п	<u></u>	
730	Rip Rap [0300404060038] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<u>; </u>		
740	Rip Rap [0300404060039] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.				
750	Retaining Wall [0300403080034] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.				
760	Trench Drain [0300409040035] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			F/.	AR
770	Trench Drain [0300409040036] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	ed5	ce.	المدمع). # 1485
780	EnviroSoxx w/ MetalLoxx [0300403200040] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	see?	800 [CARH	= l 48S
790	EnviroSoxx w/ MetalLoxx [0300403200041] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	2 80	° C	ARH	-1485
. 800	EnviroSoxx w/ MetalLoxx [0300403200043] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	Pla	cen	rent F CA	neded n=
810	EnviroSoxx w/ MetalLoxx [0300403200044] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	see	200		1485
Area/A	activity exposed to stormwater (identify needed mainteance or a description of corrective action	s in rele	vant t	ask	
830	Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	;			
840	Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.				
850	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.		—— —		
860	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.				
300	and operating): If the describe.			[]	

870	Industrial processing and finished product storage are effective, and operating)? If "No" describe.	eas: controls adequate (appropriate	€,			
880	Equipment operation and maintenance areas: control and operating)? If "No" describe.	ls adequate (appropriate, effective,			П	<u></u>
890	Fueling areas: controls adequate (appropriate, effecting describe.	ve, and operating)? If "No"				<u> </u>
900	Outdoor vehicle and equipment washing areas: control and operating)? If "No" describe.	ols adequate (appropriate, effective	e, —		F/	
910	Machinery: controls adequate (appropriate, effective,	and operating)? If "No" describe.		Ti.		
920	Waste handling and disposal areas: controls adequate operating)? If "No" describe.	e (appropriate, effective, and		Г	П	F ~
930	Erodible areas/construction: controls adequate (appro		ed" di	stur k	ر ا	are
40	Locations and sources of run-on to the site: controls a and operating)? If "No" describe.	adequate (appropriate, effective,			П	
50	Salt storage piles or pile containing salt: controls adec operating)? If "No" describe.	quate (appropriate, effective, and		П.	F/	Б
60	Dust generation and vehicle tracking: controls adequate operating)? If "No" describe.	ate (appropriate, effective, and		Б	Б	F-
70	Housekeeping (Industrial materials/residues/trash in cadequate (appropriate, effective, and operating)? If "N					レ
80	Leaks and spills: controls adequate (appropriate, effectives)	ctive, and operating)? If "No"				
020	nal Control Measures Are permit requirements satisfied with existing control additional control measures needed.	I measure(s)? If "No" describe			П.	<u></u>
ibor						
.abor Burgin, .	Jillian	Assigned Work Date 2/26/2019 / 1	Reg Hrs	OT Hrs	Othe	r Hrs
ibor R Comple Report:			T			
TP.	DEP/ burgu, CISEC 3/27/19	じべる 6~~)				

Print name and title: Kussell Sta	one GL DOSK-UDS	
Signature: Rose Ol Ste	Date: 4/9/2019	

Work Order MSGP-RI-63539

MSGP Routine Inspection Printed 4/9/2019 - 2:32 PM

Maintenance Details

Requested: 4/9/2019 2:06:58 PM

Procedure: MSGP Routine Facility

Inspection (EPC-CP-Form-

1020.2)

Last PM: 2/27/2019

Project:

Routine Facility Inspections April 2019 (P-MSGP-RI-

5361)

Reason: MSGP Routine Facility Inspection

Target: 4/30/2019

Priority/Type: Normal / Inspection

Insp. done

Department: Utilities and Infrastructure

MSGP Program

品 RG121.9

TA-3-22 Power & Steam Plant

Contact: Phone:

4125119

Tasks	4	9. 7			
#	Description	Meas.	No	N/A	Yes
Weath	er Information				
20	Describe the weather at time of inspection and document the temperature (F°).	Sunn	<u> </u>		
Within	the Facility Boundary		,		
40	Is the facility free of new discharges of pollutants that have occurred since the last inspection? If "Failed" describe.		Б		
50	If "No" has a CAR been previously initiated for this new discharge?		ii.	T-	
60	Is the facility free of discharge of pollutants at the time of inspection? If "No" describe.		10		T-
70	Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe.		SI	7/5	<u></u>
Outfal descri	I Inspection (identify needed maintenance and repairs, failed control measures that option of corrective actions in relevant task comment) Monitored Outfall [005] Free of Evidence of Erosion? If "No", describe.	need replace	ement,	or a	.
100	Monitored Outfall [005] Flow Dissipation Devices Operating Effectively? If "No", describe.				
110	Monitored Outfall [005] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		3		<u></u>
120	Monitored Outfall [005] Free of any unauthorized non-stormwater discharges? If "No" describe.				
130	Monitored Outfall [009] Free of Evidence of Erosion? If "No", describe.		-2	à	
140	Monitored Outfall [009] Flow Dissipation Devices Operating Effectively? If "No", describe.		Б		<u></u>
150	Monitored Outfall [009] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.	=°		<u> </u>	<u></u>
160	Monitored Outfall [009] Free of any unauthorized non-stormwater discharges? If "No" describe.				<u> </u>
170	Monitored Outfall [012] Free of Evidence of Erosion? If "No", describe.	_:			<u> </u>
180	Monitored Outfall [012] Flow Dissipation Devices Operating Effectively? If "No", describe.				سن ا
190	Monitored Outfall [012] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		10)		<u></u>
200	Monitored Outfall [012] Free of any unauthorized non-stormwater discharges? If "No" describe.		100		<u></u>
210	Substantially Identical Outfall [006] Free of Evidence of Erosion? If "No", describe.		-3		
220	Substantially Identical Outfall [006] Flow Dissipation Devices Operating Effectively? If "No", describe.				<u> </u>
230	Substantially Identical Outfall [006] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.				
240	Substantially Identical Outfall [006] Free of any unauthorized non-stormwater discharges? If "No" describe.				[-/

250	Substantially Identical Outfall [007] Free of Evidence of Erosion? If "No", describe.	
260	Substantially Identical Outfall [007] Flow Dissipation Devices Operating Effectively? If "No", describe.	
270	Substantially Identical Outfall [007] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.	
280	Substantially Identical Outfall [007] Free of any unauthorized non-stormwater discharges? If "No" describe.	
 290	Substantially Identical Outfall [008] Free of Evidence of Erosion? If "No", describe.	ГГГ
300	Substantially Identical Outfall [008] Flow Dissipation Devices Operating Effectively? If "No", describe.	
310	Substantially Identical Outfall [008] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.	
320	Substantially Identical Outfall [008] Free of any unauthorized non-stormwater discharges? If "No" describe.	
330	Substantially Identical Outfall [010] Free of Evidence of Erosion? If "No", describe.	
340	Substantially Identical Outfall [010] Flow Dissipation Devices Operating Effectively? If "No", describe.	
350	Substantially Identical Outfall [010] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.	
360	Substantially Identical Outfall [010] Free of any unauthorized non-stormwater discharges? If "No" describe.	
370	Substantially Identical Outfall [011] Free of Evidence of Erosion? If "No", describe.	
380	Substantially Identical Outfall [011] Flow Dissipation Devices Operating Effectively? If "No", describe.	
390	Substantially Identical Outfall [011] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.	
400	Substantially Identical Outfall [011] Free of any unauthorized non-stormwater discharges? If "No" describe.	
420	Asphalt Berm [0300403040001] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	
	Asphalt Berm [0300403040006] Control Measure is operating effectively? If "No"	
430	describe condition & need for Maintenance, Repair, or Replacement. Asphalt Berm [0300403040007] Control Measure is operating effectively? If "No"	
440	describe condition & need for Maintenance, Repair, or Replacement. Asphalt Berm [0300403040008] Control Measure is operating effectively? If "No"	
450	describe condition & need for Maintenance, Repair, or Replacement.	
460	Asphalt Berm [0300403040009] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	
<u>470</u>	Asphalt Berm [0300403040010] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	
480	Gravel Bags [0300403100002] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	
490	Gravel Bags [0300403100012] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	
500	Gravel Bags [0300403100013] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	
510	Gravel Bags [0300403100014] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	
520	Gravel Bags [0300403100015] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	
530	Gravel Bags [0300403100016] Control Measure is operating effectively? If "No". describe condition & need for Maintenance, Repair, or Replacement.	
540	Concrete/Asphalt Channel/Swale [0300404020003] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	
550	Concrete/Asphalt Channel/Swale [0300404020005] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	
560	Concrete/Asphalt Channel/Swale [0300404020024] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	

570	Concrete/Asphalt Channel/Swale [0300404020025] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			Ti-	(009)
580	Concrete/Asphalt Channel/Swale [0300404020037] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	100 Se	d un		Storms
5 90	Concrete/Asphalt Channel/Swale [300404020004] Control Measure is operating Check effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		Lm	₩+#	own
600	Eco-Block [0300403110018] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			<u></u>	storm
610	Eco-Block [0300403110019] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.				(005)
620	Eco-Block [0300403110020] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			<u></u>	
630	Eco-Block [0300403110021] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			-	
640	Infiltration Basin [0300405060023] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.				
650	Rock Channel/Swale [0300404030026] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		of	<u> </u>	
660	Rock Channel/Swale [0300404030027] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			<u> </u>	-
670	Rock Channel/Swale [0300404030028] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			<u></u>	
680	Rock Channel/Swale [0300404030029] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	6		سنا	
690	Rock Channel/Swale [0300404030030] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.				
700	Rock Channel/Swale [0300404030031] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			<u></u>	
710	Erosion Control Blanket [0300401060032] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.				
720	Rip Rap [0300404060033] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.				
730	Rip Rap [0300404060038] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.				
740	Rip Rap [0300404060039] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			F	
750	Retaining Wall [0300403080034] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			[i/	
760	Trench Drain [0300409040035] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			[-/	
770	Trench Drain [0300409040036] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			12	
780	EnviroSoxx w/ MetalLoxx [0300403200040] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	9 [w u	ratio	نه صلب
790	EnviroSoxx w/ MetalLoxx [0300403200041] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	[19 ~	new		مثلاه میر
800	EnviroSoxx w/ MetalLoxx [0300403200043] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		neu	r w	ettle, ou
810	EnviroSoxx w/ MetalLoxx [0300403200044] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	3/19	nei	V U	ou.
Area/Ac	tivity exposed to stormwater (identify needed mainteance or a description of corrective action).				رنور
830	Material loading/unloading and storage areas: controls adequate (appropriate, effective, raches and operating)? If "No" describe. Return I cover firefatters material	_	mere	F (ARI
840	Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.		——- -		1202
850	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.				
860	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.	- <u></u> -			
	. 9(

870	Industrial processing and finished product storage areas: effective, and operating)? If "No" describe.	: controls adequate (appropriate,	
880	Equipment operation and maintenance areas: controls and operating)? If "No" describe.	dequate (appropriate, effective,	
390	Fueling areas: controls adequate (appropriate, effective, describe.	and operating)? If "No"	
900	Outdoor vehicle and equipment washing areas: controls and operating)? If "No" describe.	adequate (appropriate, effective,	<u> </u>
910	Machinery: controls adequate (appropriate, effective, and	d operating)? If "No" describe.	
920	Waste handling and disposal areas: controls adequate (a operating)? If "No" describe.	appropriate, effective, and	<u> </u>
30	Erodible areas/construction: controls adequate (appropri "No" describe.	iate, effective, and operating)? If	
940	Locations and sources of run-on to the site: controls ade and operating)? If "No" describe.	equate (appropriate, effective,	
950	Salt storage piles or pile containing salt: controls adequate operating)? If "No" describe.	ate (appropriate, effective, and	
960	Dust generation and vehicle tracking: controls adequate operating)? If "No" describe.	(appropriate, effective, and	
970	Housekeeping (Industrial materials/residues/trash in con adequate (appropriate, effective, and operating)? If "No"		
980	Leaks and spills: controls adequate (appropriate, effective describe.	ve, and operating)? If "No"	
1020	Are permit requirements satisfied with existing control m additional control measures needed.		
abor Labor Burgin,		Assigned Work Date Reg Hrs	OT Hrs Other Hrs
abor I Compl Repor			
W.	11954/ JBrin 4/25/19	3	
confi	Signature / Name Date m the information as recorded is true, accurate and co	Signature / Name omplete.	Date

Print name and title:	Russell Stone	GC DETH-UES	
Signature: Re	usell Ste	Date: 5/6/2019	

Work Order MSGP-63654

MSGP Monitoring Stations Printed 5/8/2019 - 11:35 AM

Maintenance Details

Requested: 5/8/2019 11:30:18 AM

Procedure: MSGP Routine Facility

Inspection (EPC-CP-Form-

1020.2)

3/27/2019

Project: Rou

Last PM:

Routine Facility Inspections May 2019 (P-MSGP-RI-

5371)

Reason: MSGP Routine Facility Inspection

Target: 5/31/2019

Priority/Type: Normal / Inspection

Department: Utilities and Infrastructure

MSGP Program

品 RG121.9

A TA-3-22 Power & Steam Plant

Contact:

Phone:

9:30-10:30 AM

Tasks					
#	Description	Meas.	No	N/A	Yes
Weat	her Information				
20	Describe the weather at time of inspection and document the temperature (F°). 58°	PIC			
Withi	n the Facility Boundary				
40	Is the facility free of new discharges of pollutants that have occurred since the last inspection? If "Failed" describe.			П	Jī.
50	If "No" has a CAR been previously initiated for this new discharge?			[J	
60	Is the facility free of discharge of pollutants at the time of inspection? If "No" describe.				
70	Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe.				
	II Inspection (identify needed maintenance and repairs, failed control measures that ne iption of corrective actions in relevant task comment) Monitored Outfall [005] Free of Evidence of Erosion? If "No", describe.	eed replace	ment,	ora ·	F
100	Monitored Outfall [005] Flow Dissipation Devices Operating Effectively? If "No", describe.				
110	Monitored Outfall [005] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.				
120	Monitored Outfall [005] Free of any unauthorized non-stormwater discharges? If "No" describe.				
130	Monitored Outfall [009] Free of Evidence of Erosion? If "No", describe.				F
140	Monitored Outfall [009] Flow Dissipation Devices Operating Effectively? If "No", describe.		***	F	
150	Monitored Outfall [009] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		Г	Г	
160	Monitored Outfall [009] Free of any unauthorized non-stormwater discharges? If "No" describe.		Г	Г	
170	Monitored Outfall [012] Free of Evidence of Erosion? If "No", describe.		100		
180	Monitored Outfall [012] Flow Dissipation Devices Operating Effectively? If "No", describe.				
190	Monitored Outfall [012] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.				<u></u>
200	Monitored Outfall [012] Free of any unauthorized non-stormwater discharges? If "No" describe.		3		「
210	Substantially Identical Outfall [006] Free of Evidence of Erosion? If "No", describe.		A		
220	Substantially Identical Outfall [006] Flow Dissipation Devices Operating Effectively? If "No", describe.				<u> </u>
230	Substantially Identical Outfall [006] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.				<u> </u>
240	Substantially Identical Outfall [006] Free of any unauthorized non-stormwater discharges? If "No" describe.				F2/

250	Substantially Identical Outfall [007] Free of Evidence of Erosion? If "No", describe.	
260	Substantially Identical Outfall [007] Flow Dissipation Devices Operating Effectively? If "No", describe.	
270	Substantially Identical Outfall [007] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.	
280	Substantially Identical Outfall [007] Free of any unauthorized non-stormwater discharges? If "No" describe.	
290	Substantially Identical Outfall [008] Free of Evidence of Erosion? If "No", describe.	
300	Substantially Identical Outfall [008] Flow Dissipation Devices Operating Effectively? If "No", describe.	
310	Substantially Identical Outfall [008] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.	
320	Substantially Identical Outfall [008] Free of any unauthorized non-stormwater discharges? If "No" describe.	
330	Substantially Identical Outfall [010] Free of Evidence of Erosion? If "No", describe.	
340	Substantially Identical Outfall [010] Flow Dissipation Devices Operating Effectively? If "No", describe.	
350	Substantially Identical Outfall [010] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.	
360	Substantially Identical Outfall [010] Free of any unauthorized non-stormwater discharges? If "No" describe.	
370	Substantially Identical Outfall [011] Free of Evidence of Erosion? If "No", describe.	
380	Substantially Identical Outfall [011] Flow Dissipation Devices Operating Effectively? If "No", describe.	
	Substantially Identical Outfall [011] Free of Evidence of Pollutants in Discharges	
<u>390</u> 400	and/or Receiving Water? If "No", describe. Substantially Identical Outfall [011] Free of any unauthorized non-stormwater discharges? If "No" describe.	
420	iption of corrective actions in relevant task comments). Asphalt Berm [0300403040001] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	
430	Asphalt Berm [0300403040006] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	
440	Asphalt Berm [0300403040007] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	utten berm nou
450	Asphalt Berm [0300403040008] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	
460	Asphalt Berm [0300403040009] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	
470	Asphalt Berm [0300403040010] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	
480	Gravel Bags [0300403100002] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	
490	Gravel Bags [0300403100012] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	
500	Gravel Bags [0300403100013] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	
510	Gravel Bags [0300403100014] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	
520	Gravel Bags [0300403100015] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	
530	Gravel Bags [0300403100016] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	
<u>540</u>	Concrete/Asphalt Channel/Swale [0300404020003] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	
550	Concrete/Asphalt Channel/Swale [0300404020005] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	
	Concrete/Asphalt Channel/Swale [0300404020024] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement	

570	Concrete/Asphalt Channel/Swale [0300404020025] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			[~
580	Concrete/Asphalt Channel/Swale [0300404020037] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			
590	Concrete/Asphalt Channel/Swale [300404020004] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			<u>.</u>
600	Eco-Block [0300403110018] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			<u> </u>
610	Eco-Block [0300403110019] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			
620	Eco-Block [0300403110020] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			
630	Eco-Block [0300403110021] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			
640	Infiltration Basin [0300405060023] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			
650	Rock Channel/Swale [0300404030026] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			[J
660	Rock Channel/Swale [0300404030027] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			[]
670	Rock Channel/Swale [0300404030028] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			
680	Rock Channel/Swale [0300404030029] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			ト
690	Rock Channel/Swale [0300404030030] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			ー 「レ
700	Rock Channel/Swale [0300404030031] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			14
710	Erosion Control Blanket [0300401060032] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			
720	Rip Rap [0300404060033] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	П		
730	Rip Rap [0300404060038] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			TV
740	Rip Rap [0300404060039] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			
750	Retaining Wall [0300403080034] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			
760	Trench Drain [0300409040035] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			
770	Trench Drain [0300409040036] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<u> </u>	
780	EnviroSoxx w/ MetalLoxx [0300403200045] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<u> </u>	
790	EnviroSoxx w/ MetalLoxx [0300403200046] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	Г		TV
800	EnviroSoxx w/ MetalLoxx [0300403200047] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			TV
810	EnviroSoxx w/ MetalLoxx [0300403200048] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			5 /
	Activity exposed to stormwater (identify needed mainteance or a description of corrective ac	tions in rele	vant ta	
comm 830	Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	_	_	<u></u>
840	Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.			- -
850	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.	——————————————————————————————————————		
860	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.	——————————————————————————————————————		<u> </u>
	A			1

870	Industrial processing and finished product storage areas effective, and operating)? If "No" describe.	: controls adequate (appropriate,		
880	Equipment operation and maintenance areas: controls a and operating)? If "No" describe.	dequate (appropriate, effective,		
890	Fueling areas: controls adequate (appropriate, effective, describe.	and operating)? If "No"	ů.	
900	Outdoor vehicle and equipment washing areas: controls and operating)? If "No" describe.	adequate (appropriate, effective,		
910	Machinery: controls adequate (appropriate, effective, and	d operating)? If "No" describe.		
920	Waste handling and disposal areas: controls adequate (a operating)? If "No" describe.	appropriate, effective, and		
930	Erodible areas/construction: controls adequate (appropri "No" describe.	ate, effective, and operating)? If		
940	Locations and sources of run-on to the site: controls ade and operating)? If "No" describe.	quate (appropriate, effective,		
950	Salt storage piles or pile containing salt: controls adequa operating)? If "No" describe.	ite (appropriate, effective, and		
960	Dust generation and vehicle tracking: controls adequate operating)? If "No" describe.	(appropriate, effective, and		
970	Housekeeping (Industrial materials/residues/trash in con- adequate (appropriate, effective, and operating)? If "No"			
980	Leaks and spills: controls adequate (appropriate, effective describe.	e, and operating)? If "No"		
Non Co	amplianae			
NOII-CC	ompliance Free of incidents of observed non-compliance not alread	v identified above 2 If "NIa"		
1000	describe.	y identified above? If No		
Additio	nal Control Measures			
1020	Are permit requirements satisfied with existing control me additional control measures needed.	easure(s)? If "No" describe		
Labor				
Labor Burgin,		Assigned Work Date /8/2019 / 1	Reg Hrs	OT Hrs Other Hrs
Labor F	Report			
Comple	eted:			
Report:				
-				
-				
	1 - 1 - 20 - 1 - 1 - 2			
1	Brigue, DEPICISEC 5/17/10			
l confirm	Signature / Name Date n the information as recorded is true, accurate and cor	Signature / Name		Date
	as is a second to trace, account and and	h.a.a.		

Print name and title: Russell Stone GL DOSH -1055

Signature: Date: 6/11/2019

Work Order MSGP-RI-63714

MSGP Routine Inspection Printed 6/10/2019 - 12:50 PM

Maintenance Details

Requested: 6/10/2019 12:38:48 PM

Procedure: MSGP Routine Facility

Inspection (EPC-CP-Form-

1020.2)

4/25/2019 Last PM:

Routine Facility Inspections Project:

June 2019 (P-MSGP-RI-

5377)

Reason: 2019 June Inspections

Target: 6/28/2019

Priority/Type: Normal / Inspection

Department: Utilities and Infrastructure

MSGP Program 森 RG121.9

A TA-3-22 Power & Steam Plant

Contact: Phone:

Insp dom: 14/14/19
1:00-2:00 PM

Tasks					
#	Description	Meas.	No	N/A	Yes
Weath	ner Information	2			
20	Describe the weather at time of inspection and document the temperature (F°).	80° SUNN	٦ڥ		
Withir	n the Facility Boundary)		
40	Is the facility free of new discharges of pollutants that have occurred since the last inspection? If "Failed" describe.			Б	[-/-
50	If "No" has a CAR been previously initiated for this new discharge?			F	
60	Is the facility free of discharge of pollutants at the time of inspection? If "No" describe.				
70	Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe.			_D_	
Outfal descr	II Inspection (identify needed maintenance and repairs, failed control measures that in interpretation of corrective actions in relevant task comment)	need replacer	nent, c	ra	
90	Monitored Outfall [005] Free of Evidence of Erosion? If "No", describe.				
100	Monitored Outfall [005] Flow Dissipation Devices Operating Effectively? If "No", describe.				<u></u>
110	Monitored Outfall [005] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.				
120	Monitored Outfall [005] Free of any unauthorized non-stormwater discharges? If "No" describe.				
130	Monitored Outfall [009] Free of Evidence of Erosion? If "No", describe.				
140	Monitored Outfall [009] Flow Dissipation Devices Operating Effectively? If "No", describe.		.e.		
150	Monitored Outfall [009] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.				<u></u>
160	Monitored Outfall [009] Free of any unauthorized non-stormwater discharges? If "No" describe.				
170	Monitored Outfall [012] Free of Evidence of Erosion? If "No", describe.				1
180	Monitored Outfall [012] Flow Dissipation Devices Operating Effectively? If "No", describe.				<u> </u>
190	Monitored Outfall [012] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.				<u> </u>
200	Monitored Outfall [012] Free of any unauthorized non-stormwater discharges? If "No" describe.				
210	Substantially Identical Outfall [006] Free of Evidence of Erosion? If "No", describe.				
220	Substantially Identical Outfall [006] Flow Dissipation Devices Operating Effectively? If "No", describe.				<u> </u>
230	Substantially Identical Outfall [006] Free of Evidence of Pollutants in Discharges and/one Receiving Water? If "No", describe.	or 			1
240	Substantially Identical Outfall [006] Free of any unauthorized non-stormwater discharges? If "No" describe.				

250	Substantially Identical Outfall [007] Free of Evidence of Erosion? If "No", describe.	П	П		- 17
	Substantially Identical Outfall [007] Flow Dissipation Devices Operating Effectively? If		<u> </u>		
260	"No", describe. Substantially Identical Outfall [007] Free of Evidence of Pollutants in Discharges and/or				
270	Receiving Water? If "No", describe. Substantially Identical Outfall [007] Free of any unauthorized non-stormwater			<u> </u>	
280	discharges? If "No" describe.			<u> </u>	
290	Substantially Identical Outfall [008] Free of Evidence of Erosion? If "No", describe.				
300_	Substantially Identical Outfall [008] Flow Dissipation Devices Operating Effectively? If "No", describe.				-
310	Substantially Identical Outfall [008] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.	П	П	[]	
320	Substantially Identical Outfall [008] Free of any unauthorized non-stormwater discharges? If "No" describe.				
330	Substantially Identical Outfall [010] Free of Evidence of Erosion? If "No", describe.				
340	Substantially Identical Outfall [010] Flow Dissipation Devices Operating Effectively? If "No", describe.			ワン	
350	Substantially Identical Outfall [010] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		П		
360	Substantially Identical Outfall [010] Free of any unauthorized non-stormwater discharges? If "No" describe.				
370	Substantially Identical Outfall [011] Free of Evidence of Erosion? If "No", describe.				
<u></u>	Substantially Identical Outfall [011] Flow Dissipation Devices Operating Effectively? If				
380	"No", describe.			<u></u>	
390	Substantially Identical Outfall [011] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.			<u></u>	
400	Substantially Identical Outfall [011] Free of any unauthorized non-stormwater discharges? If "No" describe.				
420	rective actions in relevant task comments). Asphalt Berm [0300403040001] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.				
430	Asphalt Berm [0300403040006] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.				
440	Asphalt Berm [0300403040008] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		П	[-/	
450	Asphalt Berm [0300403040009] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	I = 0		レ	
460	Asphalt Berm [0300403040010] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	Б	176	[·	
470	Gravel Bags [0300403100002] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		П	[~	
	Gravel Bags [0300403100012] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	, was ed	-00	t.	CARH
480	condition & need for Maintenance, Repair, or Replacement. needs Scalingut Gravel Bags [0300403100013] Control Measure is operating effectively? If "No" describe	Cut IV			154
490	condition & need for Maintenance, Repair, or Replacement.				
500	Gravel Bags [0300403100014] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.				
510	Gravel Bags [0300403100015] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			T	
520	Gravel Bags [0300403100016] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.				
530	Concrete/Asphalt Channel/Swale [0300404020003] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		П		
540	Concrete/Asphalt Channel/Swale [0300404020005] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.				
550	Concrete/Asphalt Channel/Swale [0300404020024] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.				
	Concrete/Asphalt Channel/Swale [0300404020025] Control Measure is operating				
560 570	effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. Concrete/Asphalt Channel/Swale [0300404020037] Control Measure is operating		+		CAL

Usen out needed at 1545 culverts.

	effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.					
580	Concrete/Asphalt Channel/Swale [300404020004] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.					
590	Eco-Block [0300403110018] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		П		F	
600	Eco-Block [0300403110019] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.					
610	Eco-Block [0300403110020] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.					
620	Eco-Block [0300403110021] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.				<u></u>	
630	Infiltration Basin [0300405060023] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.				_T_	
640	Rock Channel/Swale [0300404030026] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.					
650	Rock Channel/Swale [0300404030027] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	e 			12	
660	Rock Channel/Swale [0300404030028] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.				[~	
670	Rock Channel/Swale [0300404030029] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.					
680	Rock Channel/Swale [0300404030030] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.				سي إ	
690	Rock Channel/Swale [0300404030031] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.					
700	Erosion Control Blanket [0300401060032] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			П		
710	Rip Rap [0300404060033] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.					
720	Rip Rap [0300404060038] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.					
730	Rip Rap [0300404060039] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.				<u> </u>	
740	Retaining Wall [0300403080034] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.					
750	Trench Drain [0300409040035] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.				T-	
760	Trench Drain [0300409040036] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	west	ne	ded	- C	NR# 1545
770	EnviroSoxx w/ MetalLoxx [0300403200045] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.					1019
780	EnviroSoxx w/ MetalLoxx [0300403200046] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		П	Г		
790	EnviroSoxx w/ MetalLoxx [0300403200047] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	weitt	2	П	(CAL #
800	EnviroSoxx w/ MetalLoxx [0300403200048] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.					כירכן
	ctivity exposed to stormwater (identify needed mainteance or a description of corrective	e actions i	n relev	ant tas		
comm 820	Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		П	П		
830	Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.			П		
840	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.	 -				
850	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.		<u> </u>	<u> </u>		
860	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	19		· 🗔		
870	Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		Б	——————————————————————————————————————		

880	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	
890	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	
900	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.	
910	Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	
920	Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe. Constr. Area (N.S.) pe has been hydro seeded	week of 4124.
930	Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.	
940	Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.	
950	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.	
960	Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe.	
970	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe.	
Non-C 6	ompliance Free of incidents of observed non-compliance not already identified above? If "No" describe.	
1010	Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed.	
	Signature / Name Date Signature / Name The information as recorded is true, accurate and complete.	Date
*1	CERTIFICATION STATEMENT	
a systemity of the action of t	and title: Ressell Store Gd Des H-USS Date: 1 designed to assure that qualified personnel properly gathered and evaluated the information the person or persons who manage the system, or those persons directly responsible for gathering a submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am award or submitting false information, including the possibility of fine and imprisonment for knowing the submittion in Section B.11.A, eg. FOD, Ops Mgr, DESH Group Leader, EPC Group Leader) And title: Ressell Store Gd Des H-USS	submitted. Based on my ag information, the that there are significant
nature:	Roud Date: 7/31/2014	7

Work Order MSGP-RI-63825

MSGP Routine Inspection Printed 7/24/2019 - 4:15 PM

Maintenance Details

Requested: 7/24/2019 4:12:00 PM Procedure: MSGP Routine Facility

Inspection (EPC-CP-Form-

1020.2) 6/14/2019

Last PM: Project:

Routine Facility Inspections July 2019 (P-MSGP-RI-5386)

Reason: 2019 July Inspections

Target: 7/31/2019

Priority/Type: / Inspection

Department: Utilities and Infrastructure

Insp. done

MSGP Program 森 RG121.9

♣ TA-3-22 Power & Steam Plant

Contact: Phone:

7/12/19 2:00 - 3:00 PM

asks					
#	Description	Meas.	No	N/A	Yes
Weath	er Information				
20	Describe the weather at time of inspection and document the temperature (F°).	Plc		П	[-/-
Within	the Facility Boundary				
AAILIIIII	Is the facility free of new discharges of pollutants that have occurred since the last inspection? If				
40	"Failed" describe.				[-
50	If "No" has a CAR been previously initiated for this new discharge?			-	120
60	Is the facility free of discharge of pollutants at the time of inspection? If "No" describe.				-
	Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If		1.00		
70	"No" describe.				
	Inspection (identify needed maintenance and repairs, failed control measures that need replative actions in relevant task comment) Monitored Outfall [005] Free of Evidence of Erosion? If "No", describe.	acement, o	r a des	criptio	n of
100	Monitored Outfall [005] Flow Dissipation Devices Operating Effectively? If "No", describe.				
110	Monitored Outfall [005] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<u> </u>		— E
120	Monitored Outfall [005] Free of any unauthorized non-stormwater discharges? If "No" describe.				
130	Monitored Outfall [009] Free of Evidence of Erosion? If "No", describe.				<u> </u>
140	Monitored Outfall [009] Flow Dissipation Devices Operating Effectively? If "No", describe.				-
3.5.00	Monitored Outfall [009] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If			- 10	
150	"No", describe.		-	a.i	Ti-
160	Monitored Outfall [009] Free of any unauthorized non-stormwater discharges? If "No" describe.				<u></u>
170	Monitored Outfall [012] Free of Evidence of Erosion? If "No", describe.		16		5
180	Monitored Outfall [012] Flow Dissipation Devices Operating Effectively? If "No", describe.		1	į.	<u> </u>
190	Monitored Outfall [012] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.				<u></u>
200 -	Monitored Outfall [012] Free of any unauthorized non-stormwater discharges? If "No" describe.				1
210	Substantially Identical Outfall [006] Free of Evidence of Erosion? If "No", describe.			T _i	Tu-
220	Substantially Identical Outfall [006] Flow Dissipation Devices Operating Effectively? If "No", describe.		404		
230	Substantially Identical Outfall [006] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.				[-
240	Substantially Identical Outfall [006] Free of any unauthorized non-stormwater discharges? If "No" describe.	·			<u> </u>
250	Substantially Identical Outfall [007] Free of Evidence of Erosion? If "No", describe.				<u> </u>
260	Substantially Identical Outfall [007] Flow Dissipation Devices Operating Effectively? If "No", describe.				
270	Substantially Identical Outfall [007] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.				
280	Substantially Identical Outfall [007] Free of any unauthorized non-stormwater discharges? If "No" describe.	U P	П	П	
290	Substantially Identical Outfall [008] Free of Evidence of Erosion? If "No", describe.				[J
300	Substantially Identical Outfall [008] Flow Dissipation Devices Operating Effectively? If "No",				T-

	describe.	
310	Substantially Identical Outfall [008] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.	
320	Substantially Identical Outfall [008] Free of any unauthorized non-stormwater discharges? If "No" describe.	
330	Substantially Identical Outfall [010] Free of Evidence of Erosion? If "No", describe.	
	Substantially Identical Outfall [010] Flow Dissipation Devices Operating Effectively? If "No",	
340	describe.	
350	Substantially Identical Outfall [010] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.	лпг
360	Substantially Identical Outfall [010] Free of any unauthorized non-stormwater discharges? If "No" describe.	
370	Substantially Identical Outfall [011] Free of Evidence of Erosion? If "No", describe.	
380	Substantially Identical Outfall [011] Flow Dissipation Devices Operating Effectively? If "No", describe.	ГГГ
390	Substantially Identical Outfall [011] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.	
-	Substantially Identical Outfall [011] Free of any unauthorized non-stormwater discharges? If	
400	"No" describe.	
	ol Measures (identify needed maintenance and repairs, failed control measures that need repla ctive actions in relevant task comments).	cment, or a description of
420	Asphalt Berm [0300403040001] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	
430	Asphalt Berm [0300403040006] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	
440	Asphalt Berm [0300403040008] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	
	Asphalt Berm [0300403040009] Control Measure is operating effectively? If "No" describe	
450	condition & need for Maintenance, Repair, or Replacement.	
460	Asphalt Berm [0300403040010] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	
470	Gravel Bags [0300403100002] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	
480	Gravel Bags [0300403100012] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	
490	Gravel Bags [0300403100013] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	
500	Gravel Bags [0300403100014] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	
500	Gravel Bags [0300403100015] Control Measure is operating effectively? If "No" describe	
510	condition & need for Maintenance, Repair, or Replacement. Gravel Bags [0300403100016] Control Measure is operating effectively? If "No" describe	
520	condition & need for Maintenance, Repair, or Replacement.	
530	Concrete/Asphalt Channel/Swale [0300404020003] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	
540	Concrete/Asphalt Channel/Swale [0300404020005] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	
550	Concrete/Asphalt Channel/Swale [0300404020024] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	
560	Concrete/Asphalt Channel/Swale [0300404020025] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	
	Concrete/Asphalt Channel/Swale [0300404020037] Control Measure is operating effectively? If	
570	"No" describe condition & need for Maintenance, Repair, or Replacement. Concrete/Asphalt Channel/Swale [300404020004] Control Measure is operating effectively? If	
580	"No" describe condition & need for Maintenance, Repair, or Replacement. Eco-Block [0300403110018] Control Measure is operating effectively? If "No" describe condition	
590	& need for Maintenance, Repair, or Replacement. Eco-Block [0300403110019] Control Measure is operating effectively? If "No" describe condition	
600	& need for Maintenance, Repair, or Replacement.	
610	Eco-Block [0300403110020] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	
620	Eco-Block [0300403110021] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	
630	Infiltration Basin [0300405060023] Control Measure is operating effectively? If "No" describe	

	condition & need for Maintenance, Repair, or Replacement.				
	Rock Channel/Swale [0300404030026] Control Measure is operating effectively? If "No"				
640	describe condition & need for Maintenance, Repair, or Replacement.				
650	Rock Channel/Swale [0300404030027] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		н		. F✓
000	Rock Channel/Swale [0300404030028] Control Measure is operating effectively? If "No"				
660	describe condition & need for Maintenance, Repair, or Replacement.				1
	Rock Channel/Swale [0300404030029] Control Measure is operating effectively? If "No"				
670	describe condition & need for Maintenance, Repair, or Replacement.		J.		
680	Rock Channel/Swale [0300404030030] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		-		
000	Rock Channel/Swale [0300404030031] Control Measure is operating effectively? If "No"				_[_
690	describe condition & need for Maintenance, Repair, or Replacement.				G
	Erosion Control Blanket [0300401060032] Control Measure is operating effectively? If "No"				
700	describe condition & need for Maintenance, Repair, or Replacement.				
710	Rip Rap [0300404060033] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			-	-
110	Rip Rap [0300404060038] Control Measure is operating effectively? If "No" describe condition &				
720	need for Maintenance, Repair, or Replacement.				1
	Rip Rap [0300404060039] Control Measure is operating effectively? If "No" describe condition &				
730	need for Maintenance, Repair, or Replacement.		\Box		_ご_
740	Retaining Wall [0300403080034] Control Measure is operating effectively? If "No" describe		_	_	-/
740	condition & need for Maintenance, Repair, or Replacement. Trench Drain [0300409040035] Control Measure is operating effectively? If "No" describe		- 6	- 1	_F_
750	condition & need for Maintenance, Repair, or Replacement.				-
	Trench Drain [0300409040036] Control Measure is operating effectively? If "No" describe	7.			
760	condition & need for Maintenance, Repair, or Replacement.			Į.	
770	EnviroSoxx w/ MetalLoxx [0300403200045] Control Measure is operating effectively? If "No"		_	_	_
770	describe condition & need for Maintenance, Repair, or Replacement. EnviroSoxx w/ MetalLoxx [0300403200046] Control Measure is operating effectively? If "No"				
780	describe condition & need for Maintenance, Repair, or Replacement.				
	EnviroSoxx w/ MetalLoxx [0300403200048] Control Measure is operating effectively? If "No"				
790	describe condition & need for Maintenance, Repair, or Replacement.			d	
000	EnviroSoxx w/ MetalLoxx [0300403200049] Control Measure is operating effectively? If "No"		_	_	
800	describe condition & need for Maintenance, Repair, or Replacement.				
Area/A	ctivity exposed to stormwater (identify needed mainteance or a description of corrective action	s in relev	ant ta	sk com	ıment).
820	Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.			ETS.	
020	Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If		100	-3/	
830	"No" describe.				-
	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and	5			
840	operating)? If "No" describe.				سن ا
050	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and			_	
850	operating)? If "No" describe. Industrial processing and finished product storage areas: controls adequate (appropriate,				
860	effective, and operating)? If "No" describe.				F-
	Equipment operation and maintenance areas: controls adequate (appropriate, effective, and				
870	operating)? If "No" describe.				
880	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.			П	
000	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and		_		_
900	operating)? If "No" describe. Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.				
900	Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If		3	- i	
910	"No" describe.				Tu-
	Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No"				
920	describe.		3		
020	Locations and sources of run-on to the site: controls adequate (appropriate, effective, and		_	_	
930	operating)? If "No" describe. Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and		.5	Į	-
940	operating)? If "No" describe.				- [
-	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If				
950	"No" describe.				<u></u>
960	Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe.				

970 Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe.	
Non-Compliance	
990 Free of incidents of observed non-compliance not already identified above? If "No" describe.	
Additional Control Measures Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed.	
TOTO CONTROL MEASURES HEEGED.	
abor Report Completed:	
Report:	
Signature / Name I confirm the information as recorded is true, accurate and complete. Signature / Name Signature / Name	Date
CERTIFICATION STATEMENT	#3
certify under penalty of law that this document and all attachments were prepared under my direction or tem designed to assure that qualified personnel properly gathered and evaluated the information submitt son or persons who manage the system, or those persons directly responsible for gathering information, best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant pen se information, including the possibility of fine and imprisonment for knowing violations".	ed. Based on my inquiry of the information submitted is,
gnatory must meet definition in Section B.11.A, eg. FOD, Ops Mgr, DESH Group Leader, EPC Group Leader)	

Work Order MSGP-RI-63905

MSGP Routine Inspection Printed 8/13/2019 - 2:09 PM

Maintenance Det	N	la	in	te	na	nc	e I	Det	lai	ls
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Requested: 8/13/2019 2:04:11 PM

Procedure: MSGP Routine Facility Inspection (EPC-CP-Form-

1020.2)

Last PM: 6/14/2019 Routine Facility Inspections Project:

August 2019 (P-MSGP-RI-

5393)

Reason: 2019 August Inspections

Target: 8/31/2019

Priority/Type: Normal / Inspection

Department: Utilities and Infrastructure

🗀 MSGP Program

品 RG121.9

LA TA-3-22 Power & Steam Plant

Contact: Phone:

Inop done 8/8/191

10:00 - 11:00 AM

Weather Information Describe the weather at time of inspection and document the temperature (F*). Within the Facility Boundary Is the facility free of new discharges of pollutants that have occurred since the last inspection? If "Falled" describe. If "No" has a CAR been previously initiated for this new discharge? If "No" has a CAR been previously initiated for this new discharge? Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe. Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe. Outfall Inspection (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comment) Monitored Outfall [005] Free of Evidence of Erosion? If "No", describe. Monitored Outfall [005] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. Monitored Outfall [005] Free of Evidence of Erosion? If "No", describe. Monitored Outfall [009] Free of Evidence of Erosion? If "No", describe. Monitored Outfall [009] Free of Evidence of Erosion? If "No", describe. Monitored Outfall [009] Free of Evidence of Erosion? If "No", describe. Monitored Outfall [009] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. Monitored Outfall [009] Free of Evidence of Pollutants in Discharges? If "No", describe. Monitored Outfall [009] Free of Evidence of Pollutants in Discharges? If "No", describe. Monitored Outfall [012] Free of Evidence of Erosion? If "No", describe. Monitored Outfall [012] Free of Evidence of Erosion? If "No", describe. Monitored Outfall [012] Free of Evidence of Erosion? If "No", describe. Monitored Outfall [012] Free of Evidence of Erosion? If "No", describe. Monitored Outfall [012] Free of Evidence of Erosion? If "No", describe. Substantially Identical Outfall [006] Free of Evidence of Pollutants in Discharges and/or Receiving Ef	Tasks					
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	230	Substantially Identical Outfall [006] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		Li	П	<u></u>
2TO MISSIMINGER II ITO MOSSIBO.	240	Substantially Identical Outfall [006] Free of any unauthorized non-stormwater discharges? If "No" describe.				G-

250	Substantially Identical Outfall [007] Free of Evidence of Erosion? If "No", describe.				
260	Substantially Identical Outfall [007] Flow Dissipation Devices Operating Effectively? If "No", describe.		厂	<u></u>	
270	Substantially Identical Outfall [007] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.			D	
280	Substantially Identical Outfall [007] Free of any unauthorized non-stormwater discharges? If "No" describe.				
290	Substantially Identical Outfall [008] Free of Evidence of Erosion? If "No", describe.				
300	Substantially Identical Outfall [008] Flow Dissipation Devices Operating Effectively? If "No", describe.			[]	
310	Substantially Identical Outfall [008] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.			<u></u>	
320	Substantially Identical Outfall [008] Free of any unauthorized non-stormwater discharges? If "No" describe.				
330	Substantially Identical Outfall [010] Free of Evidence of Erosion? If "No", describe.			-	
340	Substantially Identical Outfall [010] Flow Dissipation Devices Operating Effectively? If "No", describe.	П	П.	J.	
350	Substantially Identical Outfall [010] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.				
360	Substantially Identical Outfall [010] Free of any unauthorized non-stormwater discharges? If "No" describe.				
370				10	
3/0	Substantially Identical Outfall [011] Free of Evidence of Erosion? If "No", describe.		- 13	1	
380	Substantially Identical Outfall [011] Flow Dissipation Devices Operating Effectively? If "No", describe.	П			
000	Substantially Identical Outfall [011] Free of Evidence of Pollutants in Discharges			_	
390 400	and/or Receiving Water? If "No", describe. Substantially Identical Outfall [011] Free of any unauthorized non-stormwater discharges? If "No" describe.			<u></u>	
descri	of Measures (identify needed maintenance and repairs, failed control measures that need reption of corrective actions in relevant task comments). Asphalt Berm [0300403040001] Control Measure is operating effectively? If "No"	eplacment, c	ora		
420	describe condition & need for Maintenance, Repair, or Replacement.			<u></u>	
430	Asphalt Berm [0300403040006] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<u> </u>		
440	Asphalt Berm [0300403040008] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.				
450	Asphalt Berm [0300403040009] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			<u></u>	
460	Asphalt Berm [0300403040010] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	- Ti			
470	Asphalt Berm [0300403040052] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			T-	
480 .	Asphalt Berm [0300403040053] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.				
490	Gravel Bags [0300403100002] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		ıl.		
500	Gravel Bags [0300403100012] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	П		<u></u>	
510	Gravel Bags [0300403100013] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	П	ij.	<u> </u>	
520	Gravel Bags [0300403100014] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	ned pu	Pla	ud.	1581
530	describe condition & need for Maintenance, Repair, or Replacement.			<u></u>	
540	Gravel Bags [0300403100016] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		П	T-	
550	Gravel Bags [0300403100051] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			[~	
560	Concrete/Asphalt Channel/Swale [0300404020003] Control Measure is operating				
500	effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			J	

570	Concrete/Asphalt Channel/Swale [0300404020005] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		. Light			
580	Concrete/Asphalt Channel/Swale [0300404020024] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			П		
590	Concrete/Asphalt Channel/Swale [0300404020025] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			Г	F	2/2
600	effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	attles.	r Cu	رنو. ال	<u> </u>	AK#15
610	Concrete/Asphalt Channel/Swale [300404020004] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.				Ti-	
620	Eco-Block [0300403110018] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.					
630	Eco-Block [0300403110019] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			П		
640	Eco-Block [0300403110020] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	111		Б	<u> </u>	
650	Eco-Block [0300403110021] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		П	Г	<u> </u>	
660	Infiltration Basin [0300405060023] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	-	Б	Г		
670	Rock Channel/Swale [0300404030026] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		Б			
680	Rock Channel/Swale [0300404030027] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.					
690	Rock Channel/Swale [0300404030028] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.					
700	Rock Channel/Swale [0300404030029] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.					
710	Rock Channel/Swale [0300404030030] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.					
30	Rock Channel/Swale [0300404030031] Control Measure is operating effectively? If "No"					
720	describe condition & need for Maintenance, Repair, or Replacement. Erosion Control Blanket [0300401060032] Control Measure is operating effectively? If		3/1			
730	"No" describe condition & need for Maintenance, Repair, or Replacement. Erosion Control Blanket [0300401060059] Control Measure is operating effectively? If		<u>. </u>			
740	"No" describe condition & need for Maintenance, Repair, or Replacement. Rip Rap [0300404060033] Control Measure is operating effectively? If "No" describe		<u>.</u>	ni!		
750	condition & need for Maintenance, Repair, or Replacement. Rip Rap [0300404060038] Control Measure is operating effectively? If "No" describe					
760	condition & need for Maintenance, Repair, or Replacement. Rip Rap [0300404060039] Control Measure is operating effectively? If "No" describe		0	<u></u>	<u></u>	
770	condition & need for Maintenance, Repair, or Replacement. Rip Rap [0300404060058] Control Measure is operating effectively? If "No" describe	14.	Ε			
780	condition & need for Maintenance, Repair, or Replacement. Retaining Wall [0300403080034] Control Measure is operating effectively? If "No"		<u> </u>		<u></u>	
790	describe condition & need for Maintenance, Repair, or Replacement.				<u></u>	
800	Straw Wattle [0300403060054] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.					
810	Straw Wattle [0300403060055] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			П		
820	Straw Wattle [0300403060056] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<u>.</u>		-	
830	Straw Wattle [0300403060057] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.				<u></u>	
840	Trench Drain [0300409040035] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<u> </u>	<u> </u>		
850	Trench Drain [0300409040036] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		 [j	П		720
860	EnviroSoxx w/ MetalLoxx [0300403200045] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	CARIT	58	5 -	dore	819/19.
870	EnviroSoxx w/ MetalLoxx [0300403200048] Control Measure is operating effectively? If				V	

pmpliance Free of incidents of observed non-compliance not already identified above? If "No" describe. De place form grave bass above outfall 8'.		_	-
Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe.		Б	
Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls			
Dust generation and vehicle tracking: controls adequate (appropriate, effective, and		<u></u>	
and operating)? If "No" describe. Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and			<u></u>
"No" describe.			<u> </u>
operating)? If "No" describe. Secure cover on metal roll-off bin.	AL #	158	12 12/jb
Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.			
Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective,			<u></u>
and operating)? If "No" describe. Fueling areas: controls adequate (appropriate, effective, and operating)? If "No"	_Г_		
Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. Equipment operation and maintenance areas: controls adequate (appropriate, effective,			J
Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe. Cover rusty Motol tables Cwelding and		# 15 	,83
Product/chemical storage areas (raw material): controls adequate (appropriate, effective,			
and operating)? If "No" describe. Transfer areas for substances in bulk: controls adequate (appropriate, effective, and			_iii
nt).	ons in rele	vant t	ask
EnviroSoxx w/ MetalLoxx [0300403200050] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	16 -	Lρe	819 (1 <u>IV</u> (1
	"No" describe condition & need for Maintenance, Repair, or Replacement. **Civity exposed to stormwater (identify needed mainteance or a description of corrective action). Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe. Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe. Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe. Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe. Course or use of the lambers of the	"No" describe condition & need for Maintenance, Repair, or Replacement. Control of Corrective actions in relevant. In this way of the story of the secondary o	"No" describe condition & need for Maintenance, Repair, or Replacement. Intuitivity exposed to stormwater (identify needed mainteance or a description of corrective actions in relevant to the control of the contro

Dansin / TRusia	8/28/19		
Signature / Name	Date	Signature / Name	Date

CERTIFICATION STATEMENT

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

Print name and title:	Russell Stone	GL DESH-UTS	
Signature: Ken	well to	Date:	9/5/2019

Work Order MSGP-RI-63941

MSGP Routine Inspection Printed 9/13/2019 - 3:29 PM

Maintenance Details

Requested: 9/13/2019 3:21:04 PM

Procedure: MSGP Routine Facility

Inspection (EPC-CP-Form-

1020.2)

Last PM: 7/12/2019

Project: Routine Facility Inspections

September 2019 (P-MSGP-RI-5401)

Reason: 2019 September Inspections

9/30/2019 Target:

Priority/Type: Normal / Inspection

Department: Utilities and Infrastructure

Inop done:

MSGP Program
RG121.9

A TA-3-22 Power & Steam Plant

Contact:

Phone:

1:00-2:00 Pm

asks					
#	Description	Meas.	No	N/A	Yes
Veath	ner Information				
20	Describe the weather at time of inspection and document the temperature (F°).	Sunny			19
Vithir	the Facility Boundary				
	Is the facility free of new discharges of pollutants that have occurred since the last inspection? If				
0	"Failed" describe.				
0	If "No" has a CAR been previously initiated for this new discharge?			4	
0	Is the facility free of discharge of pollutants at the time of inspection? If "No" describe.				
0	Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe.				الوا
	I Inspection (identify needed maintenance and repairs, failed control measures that need repletive actions in relevant task comment) Monitored Outfall [005] Free of Evidence of Erosion? If "No", describe.	acement, or	a des	cription	n of □
00	Monitored Outfall [005] Flow Dissipation Devices Operating Effectively? If "No", describe.				
10	Monitored Outfall [005] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.				
20	Monitored Outfall [005] Free of any unauthorized non-stormwater discharges? If "No" describe.				
30	Monitored Outfall [009] Free of Evidence of Erosion? If "No", describe.				
40	Monitored Outfall [009] Flow Dissipation Devices Operating Effectively? If "No", describe.				
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60	Monitored Outfall [009] Free of any unauthorized non-stormwater discharges? If "No" describe.				
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80	Monitored Outfall [012] Flow Dissipation Devices Operating Effectively? If "No", describe.				T
90	Monitored Outfall [012] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.				T-
00_	Monitored Outfall [012] Free of any unauthorized non-stormwater discharges? If "No" describe.				
10	Substantially Identical Outfall [006] Free of Evidence of Erosion? If "No", describe.				F
20	Substantially Identical Outfall [006] Flow Dissipation Devices Operating Effectively? If "No", describe.				<u> </u>
30	Substantially Identical Outfall [006] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.				4
40	Substantially Identical Outfall [006] Free of any unauthorized non-stormwater discharges? If "No" describe.				T <u>I</u>
50	Substantially Identical Outfall [007] Free of Evidence of Erosion? If "No", describe.				Q.
60	Substantially Identical Outfall [007] Flow Dissipation Devices Operating Effectively? If "No", describe.				L.
70	Substantially Identical Outfall [007] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.				G-
80	Substantially Identical Outfall [007] Free of any unauthorized non-stormwater discharges? If "No" describe.				سايا
90	Substantially Identical Outfall [008] Free of Evidence of Erosion? If "No", describe.				Ŋ.
					P

300	Substantially Identical Outfall [008] Flow Dissipation Devices Operating Effectively? If "No", describe.				
310	Substantially Identical Outfall [008] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		——————————————————————————————————————		<u>-</u>
320	Substantially Identical Outfall [008] Free of any unauthorized non-stormwater discharges? If "No" describe.		г.	<u> </u>	سا
330	Substantially Identical Outfall [010] Free of Evidence of Erosion? If "No", describe.				
	Substantially Identical Outfall [010] Flow Dissipation Devices Operating Effectively? If "No",				
340	describe.				
350	Substantially Identical Outfall [010] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe:		 []		
360	Substantially Identical Outfall [010] Free of any unauthorized non-stormwater discharges? If "No" describe.				F.
370	Substantially Identical Outfall [011] Free of Evidence of Erosion? If "No", describe.				
380	Substantially Identical Outfall [011] Flow Dissipation Devices Operating Effectively? If "No", describe.		п		Tái.
390	Substantially Identical Outfall [011] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.			Г	<u> </u>
400	Substantially Identical Outfall [011] Free of any unauthorized non-stormwater discharges? If "No" describe.		8		¬¬
Contr	ol Measures (identify needed maintenance and repairs, failed control measures that need replac	ment, or a	desci	ription	of
corre	ctive actions in relevant task comments).				
420	Asphalt Berm [0300403040001] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.				
430	Asphalt Berm [0300403040006] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.				
440	Asphalt Berm [0300403040008] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		匚.		_ <u></u>
450	Asphalt Berm [0300403040009] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<u></u>		
460	Asphalt Berm [0300403040010] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.				
470	Asphalt Berm [0300403040052] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.				
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500	Gravel Bags [0300403100012] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		П.	П	
510	Gravel Bags [0300403100013] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			П	
520	Gravel Bags [0300403100014] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			П	
530	Gravel Bags [0300403100015] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.				
540	Gravel Bags [0300403100016] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			П	1
550	Gravel Bags [0300403100051] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.				
560	Concrete/Asphalt Channel/Swale [0300404020003] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.				
570	Concrete/Asphalt Channel/Swale [0300404020005] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		Б		Ti-
580	Concrete/Asphalt Channel/Swale [0300404020024] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		Г		<u> </u>
590	Concrete/Asphalt Channel/Swale [0300404020025] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<u> </u>	Г	Ti-
600	Concrete/Asphalt Channel/Swale [0300404020037] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.				Ti-
610	Concrete/Asphalt Channel/Swale [300404020004] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			Б	Ti-
620	Eco-Block [0300403110018] Control Measure is operating effectively? If "No" describe condition & need for Maintenance. Repair, or Replacement.		<u> </u>	Б	

630	Eco-Block [0300403110019] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		П	F
640	Eco-Block [0300403110020] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			
650	Eco-Block [0300403110021] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		Г	
660	Infiltration Basin [0300405060023] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			F
670	Rock Channel/Swale [0300404030026] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			
680	Rock Channel/Swale [0300404030027] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	П		П
690	Rock Channel/Swale [0300404030028] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			
700	Rock Channel/Swale [0300404030029] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			
710	Rock Channel/Swale [0300404030030] Control Measure is operating effectively? If "No"			
	describe condition & need for Maintenance, Repair, or Replacement. Rock Channel/Swale [0300404030031] Control Measure is operating effectively? If "No"			
720	describe condition & need for Maintenance, Repair, or Replacement. Erosion Control Blanket [0300401060032] Control Measure is operating effectively? If "No"			
730	describe condition & need for Maintenance, Repair, or Replacement.			
740	Erosion Control Blanket [0300401060059] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			<u> </u>
750	Rip Rap [0300404060033] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			_ [Z-
760	Rip Rap [0300404060038] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			- I
<u>770</u>	Rip Rap [0300404060039] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			
780	Rip Rap [0300404060058] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			
790	Retaining Wall [0300403080034] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			
800	Straw Wattle [0300403060054] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			
810	Straw Wattle [0300403060055] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			
820	Straw Wattle [0300403060056] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			
	Straw Wattle [0300403060057] Control Measure is operating effectively? If "No" describe			سناً ا
830	condition & need for Maintenance, Repair, or Replacement. Trench Drain [0300409040035] Control Measure is operating effectively? If "No" describe			<u> </u>
840	condition & need for Maintenance, Repair, or Replacement.			F
850	Trench Drain [0300409040036] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			سنت
860	EnviroSoxx w/ MetalLoxx [0300403200045] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	П	П	
870	EnviroSoxx w/ MetalLoxx [0300403200048] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			
880	EnviroSoxx w/ MetalLoxx [0300403200049] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			
890	EnviroSoxx w/ MetalLoxx [0300403200050] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			
	ctivity exposed to stormwater (identify needed mainteance or a description of corrective actio	ns in relevant ta	sk com	
910	Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		-	
920	Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.			
930	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.		_ <u>_</u>	
940	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.		<u></u> _	14
950	Industrial processing and finished product storage areas: controls adequate (appropriate,		#	14
	Note: Welding area & Piping has been	remov.	. ل	

	effective, and operating)? If "No" describe.						
960	Equipment operation and maintenance areas: controls adequate operating)? If "No" describe.	(appropriate, effe	ctive, and				J-
970	Fueling areas: controls adequate (appropriate, effective, and open	erating)? If "No" de	scribe.				
980	Outdoor vehicle and equipment washing areas: controls adequate operating)? If "No" describe.	te (appropriate, eff	ective, and			<u></u>	Ĭī.
990	Machinery: controls adequate (appropriate, effective, and operat	ting)? If "No" descr	ibe.		П		Ji
1000	Waste handling and disposal areas: controls adequate (appropri "No" describe.	ate, effective, and	operating)? If				<u> </u>
1010	Erodible areas/construction: controls adequate (appropriate, effedescribe.	ctive, and operatir	ng)? If "No"			Б	
1020	Locations and sources of run-on to the site; controls adequate (a operating)? If "No" describe.	appropriate, effecti	ve, and	E	П	П	سا
1030	Salt storage piles or pile containing salt: controls adequate (approperating)? If "No" describe.	ropriate, effective,	and .			<u></u>	3/1
1040	Dust generation and vehicle tracking: controls adequate (approp	oriate, effective, and	d operating)? If				
1050	Housekeeping (Industrial materials/residues/trash in contact with (appropriate, effective, and operating)? If "No" describe.	h stormwater): con	trols adequate			П	
1060	Leaks and spills: controls adequate (appropriate, effective, and	operating)? If "No"	describe.		78		
Non-Cr	ompliance						
1080	Free of incidents of observed non-compliance not already identi	fied above? If "No"	describe				TV
	Are permit requirements satisfied with existing control measure(control measures needed.	s)? If "No" describe	e additional			П	<u> </u>
1100	Are permit requirements satisfied with existing control measure(s)? If "No" describe	e additional		Д <u>.</u>		
1100 abor	Are permit requirements satisfied with existing control measure(control measures needed.				<u> </u>		
abor Labor	Are permit requirements satisfied with existing control measure(control measures needed.	Assigned \	e additional	Reg Hrs	OT Hr	S Oth	
abor Labor	Are permit requirements satisfied with existing control measure(control measures needed.			Reg Hrs	OT Hr	s Oth	
abor Labor Burgin,	Are permit requirements satisfied with existing control measure(control measures needed.	Assigned \		Reg Hrs	OT Hr	s Oth	
abor Labor Burgin,	Are permit requirements satisfied with existing control measure(control measures needed. Jillian	Assigned \		Reg Hrs	OT Hr	s Oth	
abor Labor Burgin,	Are permit requirements satisfied with existing control measure(control measures needed. Jillian Report eted:	Assigned \		Reg Hrs	OT Hr	s Oth	
abor Labor Burgin, abor F	Are permit requirements satisfied with existing control measure(control measures needed. Jillian Report eted:	Assigned \		Reg Hrs	OT Hr	s Oth	
abor Labor Burgin, Comple	Are permit requirements satisfied with existing control measure(control measures needed. Jillian Report eted:	Assigned \ 9/13/2019 / 1		Reg Hrs	OT Hr	s Oth	
abor Labor Burgin, abor F Comple	Are permit requirements satisfied with existing control measure(control measures needed. Jillian Report eted: Signature Hame Date	Assigned \ 9/13/2019 / 1	Nork Date	Reg Hrs	OT Hr		

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

Print name and title:_	Russell Stones	GL	DESI	4-4IS	
Signature:	Russel		Date:	10/2/2019	

Work Order MSGP-RI-64027

MSGP Routine Inspection Printed 10/14/2019 - 4:43 PM

Maintenance Details

Requested: 10/14/2019 4:41:42 PM Procedure: MSGP Routine Facility

Inspection (EPC-CP-Form-

1020.2)

Last PM: 9/6/2019 Project:

Routine Facility Inspections October 2019 (P-MSGP-RI-

Reason: 2019 October Inspections

Target: 10/31/2019

Priority/Type: Normal / Inspection

Department: Utilities and Infrastructure

MSGP Program 器 RG121.9

A TA-3-22 Power & Steam Plant

Contact: Phone:

Inop Done 10:00 - 11:00 AM

asks					
#	Description	Meas.	No	N/A	Yes
Weatl	her Information				
20	Describe the weather at time of inspection and document the temperature (F°).	nny	Г	10	
Mithi.					
WILLIII	n the Facility Boundary Is the facility free of new discharges of pollutants that have occurred since the last inspection? If				
40	"Failed" describe.			F /	· E
50	If "No" has a CAR been previously initiated for this new discharge?				
50	Is the facility free of discharge of pollutants at the time of inspection? If "No" describe.				F
	Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No"				
70	describe.			П.	-
corre	Il Inspection (identify needed maintenance and repairs, failed control measures that need replace ctive actions in relevant task comment)	ement, or a	a desc	ription	of
90	Monitored Outfall [005] Free of Evidence of Erosion? If "No", describe.			,	
100	Monitored Outfall [005] Flow Dissipation Devices Operating Effectively? If "No", describe.		31	4	
110	Monitored Outfall [005] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe,		ET.		
120	Monitored Outfall [005] Free of any unauthorized non-stormwater discharges? If "No" describe.		- T-		
30	Monitored Outfall [009] Free of Evidence of Erosion? If "No", describe.		П		
40	Monitored Outfall [009] Flow Dissipation Devices Operating Effectively? If "No", describe.		<u> </u>		T
150	Monitored Outfall [009] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		m		
60	Monitored Outfall [009] Free of any unauthorized non-stormwater discharges? If "No" describe.				
70	Monitored Outfall [012] Free of Evidence of Erosion? If "No", describe.				1
80	Monitored Outfall [012] Flow Dissipation Devices Operating Effectively? If "No", describe.				T
90	Monitored Outfall [012] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<u> </u>		
200	Monitored Outfall [012] Free of any unauthorized non-stormwater discharges? If "No" describe.				
10	Substantially Identical Outfall [006] Free of Evidence of Erosion? If "No", describe.				F
	Substantially Identical Outfall [006] Flow Dissipation Devices Operating Effectively? If "No",			-	
20	describe.				-
230	Substantially Identical Outfall [006] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		Г		Tu-
40	Substantially Identical Outfall [006] Free of any unauthorized non-stormwater discharges? If "No"				
40	describe.				-
50	Substantially Identical Outfall [007] Free of Evidence of Erosion? If "No", describe.		-0.00		v
60	Substantially Identical Outfall [007] Flow Dissipation Devices Operating Effectively? If "No", describe.			Б.	5
70	Substantially Identical Outfall [007] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		<u>D</u> _	<u> </u>	-
80	Substantially Identical Outfall [007] Free of any unauthorized non-stormwater discharges? If "No" describe.			П.	
90	Substantially Identical Outfall [008] Free of Evidence of Erosion? If "No", describe.				T
00	Substantially Identical Outfall [008] Flow Dissipation Devices Operating Effectively? If "No",			Г	Tu

	describe.		-		
310	Substantially Identical Outfall [008] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		-		TV.
	Substantially Identical Outfall [008] Free of any unauthorized non-stormwater discharges? If "No"		-		10
320		<u>_</u>	1		
330			1		
340	Substantially Identical Outfall [010] Flow Dissipation Devices Operating Effectively? If "No", describe.		i	D.	Γυ
350	Substantially Identical Outfall [010] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.			П	
360	Substantially Identical Outfall [010] Free of any unauthorized non-stormwater discharges? If "No"				
360			١.		
370			_		
380					سال ا
390	Substantially Identical Outfall [011] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.			31	1
400	Substantially Identical Outfall [011] Free of any unauthorized non-stormwater discharges? If "No" describe.				
Cor	ntrol Measures (identify needed maintenance and repairs, failed control measures that need replact rective actions in relevant task comments).	ment, or a des	crip	otion o	f
420	Asphalt Berm [0300403040001] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	: -	h	П	Ti-
-	Asphalt Berm [0300403040006] Control Measure is operating effectively? If "No" describe		_		
430	condition & need for Maintenance, Repair, or Replacement.		Ľ.	<u>n</u>	<u> </u>
440				Ti.	1
450	Asphalt Berm [0300403040009] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			П	Γ:/·
460	Asphalt Berm [0300403040010] Control Measure is operating effectively? If "No" describe				
	Asphalt Berm [0300403040052] Control Measure is operating effectively? If "No" describe		-	d	
470	condition & need for Maintenance, Repair, or Replacement. Asphalt Berm [0300403040053] Control Measure is operating effectively? If "No" describe		-	<u>i</u>	
480	condition & need for Maintenance, Repair, or Replacement,		_		
490	Gravel Bags [0300403100002] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<u> </u>	3	
500	Gravel Bags [0300403100012] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	Б		- 2	<u> </u>
510	Gravel Bags [0300403100013] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.				[-/
	Gravel Bags [0300403100014] Control Measure is operating effectively? If "No" describe condition	-		<u></u>	
520	& need for Maintenance, Repair, or Replacement. Gravel Bags [0300403100015] Control Measure is operating effectively? If "No" describe condition		٠.		
530	& need for Maintenance, Repair, or Replacement. Gravel Bags [0300403100016] Control Measure is operating effectively? If "No" describe condition				<u> </u>
<u>540</u>	& need for Maintenance, Repair, or Replacement.				Ju-
550	Gravel Bags [0300403100051] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.				12/
560	Concrete/Asphalt Channel/Swale [0300404020003] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	Б			
570	Concrete/Asphalt Channel/Swale [0300404020005] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.				<u></u>
	Concrete/Asphalt Channel/Swale [0300404020024] Control Measure is operating effectively? If				
580	"No" describe condition & need for Maintenance, Repair, or Replacement. Concrete/Asphalt Channel/Swale [0300404020025] Control Measure is operating effectively? If				
590	"No" describe condition & need for Maintenance, Repair, or Replacement. Concrete/Asphalt Channel/Swale [0300404020037] Control Measure is operating effectively? If			3	
600	"No" describe condition & need for Maintenance, Repair, or Replacement.				<u></u>
610	Concrete/Asphalt Channel/Swale [300404020004] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	E)			<u></u>
620	Eco-Block [0300403110018] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		_	Г	
630	Eco-Block [0300403110019] Control Measure is operating effectively? If "No" describe condition & need for Maintenance. Repair, or Replacement.				

640	Eco-Block [0300403110020] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.				
650	Eco-Block [0300403110021] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		Б.	П	
660	Infiltration Basin [0300405060023] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			П	سنا ا
670	Rock Channel/Swale [0300404030026] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		Б:	П	
680	Rock Channel/Swale [0300404030027] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.				Tu-
690	Rock Channel/Swale [0300404030028] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			П	
700	Rock Channel/Swale [0300404030029] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		100	П	Ti-
710	Rock Channel/Swale [0300404030030] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		17	19	
720	Rock Channel/Swale [0300404030031] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		- FB		- T
730	Erosion Control Blanket [0300401060032] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		in.		سنة ا
740	Erosion Control Blanket [0300401060059] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		——————————————————————————————————————		
750	Rip Rap [0300404060033] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.				
760	Rip Rap [0300404060038] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.				[/
770	Rip Rap [0300404060039] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		Б.		722
780	Rip Rap [0300404060058] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.				TV.
790	Retaining Wall [0300403080034] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement,				
800	Straw Wattle [0300403060054] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.				
	Straw Wattle [0300403060055] Control Measure is operating effectively? If "No" describe condition				
810	& need for Maintenance, Repair, or Replacement. Straw Wattle [0300403060056] Control Measure is operating effectively? If "No" describe condition		1	- 31	
820	& need for Maintenance, Repair, or Replacement. Straw Wattle [0300403060057] Control Measure is operating effectively? If "No" describe condition				
830	& need for Maintenance, Repair, or Replacement. Trench Drain [0300409040035] Control Measure is operating effectively? If "No" describe		П		
840	condition & need for Maintenance, Repair, or Replacement. Trench Drain [0300409040036] Control Measure is operating effectively? If "No" describe				
850	condition & need for Maintenance, Repair, or Replacement. EnviroSoxx w/ MetalLoxx [0300403200045] Control Measure is operating effectively? If "No"		1	T/	
860	describe condition & need for Maintenance, Repair, or Replacement. EnviroSoxx w/ MetalLoxx [0300403200048] Control Measure is operating effectively? If "No"				
<u>8</u> 70	describe condition & need for Maintenance, Repair, or Replacement. EnviroSoxx w/ MetalLoxx [0300403200049] Control Measure is operating effectively? If "No"				
880	describe condition & need for Maintenance, Repair, or Replacement. EnviroSoxx w/ MetalLoxx [0300403200050] Control Measure is operating effectively? If "No"			Л	<u></u>
890	describe condition & need for Maintenance, Repair, or Replacement.				<u></u>
Area/A	ctivity exposed to stormwater (identify needed mainteance or a description of corrective actions Material loading/unloading and storage areas: controls adequate (appropriate, effective, and	in relevan	it task	comm	ent).
910	operating)? If "No" describe. Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If			П	
920	"No" describe. Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and				~
930	operating)? If "No" describe. Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and		a		
940	operating)? If "No" describe. Industrial processing and finished product storage areas: controls adequate (appropriate, effective,				1
950	and operating)? If "No" describe.			П.,	-
960	Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.				

970	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	
980	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	
990	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.	
1000	Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	
1010	Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.	
1020	Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.	
1030	Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.	
1040	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.	
1050	Housekeeping (Industrial materials/residues/trash in contact with stormwater); controls adequate (appropriate, effective, and operating)? If "No" describe.	
1060	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe.	
Non-Coi	mpliance Free of incidents of observed non-compliance not already identified above? If "No" describe.	
	•	
Addition 1100	nal Control Measures Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed.	
		·
abor		
aboi		
Labor	Assigned Work Date	Reg Hrs OT Hrs Other Hrs
Burgin, J	Jillian 10/14/2019 / 1	
Report:	Signature / Name Date Signature / Name	Date
COMMIN	the information as recorded is true, accurate and complete.	
	CERTIFICATION STATEMENT	
stem designson or per best of made information	der penalty of law that this document and all attachments were prepared under my direction or signed to assure that qualified personnel properly gathered and evaluated the information submitted resons who manage the system, or those persons directly responsible for gathering information, my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalation, including the possibility of fine and imprisonment for knowing violations." Set meet definition in Section B.11.A, eg. FOD, Ops Mgr, DESH Group Leader, EPC Group Leader)	ed. Based on my inquiry of the the information submitted is, to
, j mus	O D D D D D D D D D D D D D D D D D D D	
nt name a	and title: Kussell Jone Gol DESH-UTIS	
gnature:	Russ 00 5 Date: 11/8/2019	

Work Order MSGP-RI-64111

MSGP Routine Inspection Printed 11/21/2019 - 2:53 PM

Maintenance Details

Requested: 11/21/2019 2:47:55 PM

Procedure: MSGP Routine Facility

Inspection (EPC-CP-Form-

1020.2)

Last PM: 9/6/2019

Project: Routine Facility Inspections

November 2019 (P-MSGP-

RI-5418)

Reason: 2019 November Inspections

Target: 11/30/2019

Priority/Type: Normal / Inspection

Department: Utilities and Infrastructure

MSGP Program

品 RG121.9

TA-3-22 Power & Steam Plant

Contact: Phone:

Inap. done 11/26/19 10:00-11:00

Tasks •					
#	Description	Meas.	No	N/A	Yes
Weath	er Information				
20	_ Describe the weather at time of inspection and document the temperature (F°). $2o^{\delta}$	indy		П	
Within	the Facility Boundary				
40	Is the facility free of new discharges of pollutants that have occurred since the last inspection? If "Failed" describe.		ш	-	5 /
50	If "No" has a CAR been previously initiated for this new discharge?				
60	Is the facility free of discharge of pollutants at the time of inspection? If "No" describe.	_	-0	П	
70	Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe.				
	Inspection (identify needed maintenance and repairs, failed control measures that nee ption of corrective actions in relevant task comment)	d replace	ment,	ora	
90	Monitored Outfall [005] Free of Evidence of Erosion? If "No", describe.		П	Е	
100	Monitored Outfall [005] Flow Dissipation Devices Operating Effectively? If "No", describe.		Г		Ti-
110	Monitored Outfall [005] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.				
120	Monitored Outfall [005] Free of any unauthorized non-stormwater discharges? If "No" describe.				<u></u>
130	Monitored Outfall [009] Free of Evidence of Erosion? If "No", describe.				
140	Monitored Outfall [009] Flow Dissipation Devices Operating Effectively? If "No", describe,				17
150	Monitored Outfall [009] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.				I
160	Monitored Outfall [009] Free of any unauthorized non-stormwater discharges? If "No" describe.				
170	Monitored Outfall [012] Free of Evidence of Erosion? If "No", describe.				<u></u>
180	Monitored Outfall [012] Flow Dissipation Devices Operating Effectively? If "No", describe.				<u></u>
190	Monitored Outfall [012] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		П		
200	Monitored Outfall [012] Free of any unauthorized non-stormwater discharges? If "No" describe.		33		
210	Substantially Identical Outfall [006] Free of Evidence of Erosion? If "No", describe.		П		
220	Substantially Identical Outfall [006] Flow Dissipation Devices Operating Effectively? If "No", describe.		D.	T.	<u></u>
230	Substantially Identical Outfall [006] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		П	<u> </u>	<u> </u>
240	Substantially Identical Outfall [006] Free of any unauthorized non-stormwater discharges? If "No" describe.		П.	П	1

250	Substantially Identical Outfall [007] Free of Evidence of Erosion? If "No", describe.			
260	Substantially Identical Outfall [007] Flow Dissipation Devices Operating Effectively? If "No", describe.			
270	Substantially Identical Outfall [007] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.			F
280	Substantially Identical Outfall [007] Free of any unauthorized non-stormwater discharges? If "No" describe.	П		
290	Substantially Identical Outfall [008] Free of Evidence of Erosion? If "No", describe.			
300	Substantially Identical Outfall [008] Flow Dissipation Devices Operating Effectively? If "No", describe.			
310	Substantially Identical Outfall [008] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe			
320	Substantially Identical Outfall [008] Free of any unauthorized non-stormwater discharges? If "No" describe.			[]
330	Substantially Identical Outfall [010] Free of Evidence of Erosion? If "No", describe.			
340	Substantially Identical Outfall [010] Flow Dissipation Devices Operating Effectively? If "No", describe.			
350	Substantially Identical Outfall [010] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.			
360	Substantially Identical Outfall [010] Free of any unauthorized non-stormwater discharges? If "No" describe.		П	
370	Substantially Identical Outfall [011] Free of Evidence of Erosion? If "No", describe.		П	Tī/
380	Substantially Identical Outfall [011] Flow Dissipation Devices Operating Effectively? If "No", describe.	П		10
390	Substantially Identical Outfall [011] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		П	1
400	Substantially Identical Outfall [011] Free of any unauthorized non-stormwater discharges? If "No" describe.		П	1
420	Asphalt Berm [0300403040001] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	П		<u></u>
430	Asphalt Berm [0300403040006] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		- <u></u>	<u> </u>
440	Asphalt Berm [0300403040008] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	Б	П.	<u></u>
450	Asphalt Berm [0300403040009] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	D.	П	
460	Asphalt Berm [0300403040010] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	П	П	<u></u>
470	Asphalt Berm [0300403040052] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			
480	Asphalt Berm [0300403040053] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		Ď.	
490	Gravel Bags [0300403100002] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			<u></u>
500	Gravel Bags [0300403100012] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			3000
510	Gravel Bags [0300403100013] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<u></u>	<u></u>
520	Gravel Bags [0300403100014] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. Gravel Bags [0300403100015] Control Measure is operating effectively of the last control of the last	<u> </u>		~
530	Gravel Bags [0300403100015] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. Gravel Bags [0300403100016] Control Measure is operating effectively? If "No"			<u> </u>
540	Gravel Bags [0300403100016] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. Gravel Bags [0300403100051] Control Measure is operating effectively? If "No"		N.	<u>「</u>
550	describe condition & need for Maintenance, Repair, or Replacement.			TV.
560	Concrete/Asphalt Charmel/Swale [0300404020003] Control Measure is operating			

570	Concrete/Asphalt Channel/Swale [0300404020005] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			[J
580	Concrete/Asphalt Channel/Swale [0300404020024] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		Г.	[Z
590	Concrete/Asphalt Channel/Swale [0300404020025] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		П	[Z
600	Concrete/Asphalt Channel/Swale [0300404020037] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	Б	Б	[Z
610	Concrete/Asphalt Channel/Swale [300404020004] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			T/
620	Eco-Block [0300403110018] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			
630	Eco-Block [0300403110019] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			
640	Eco-Block [0300403110020] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		——————————————————————————————————————	<u> </u>
650	Eco-Block [0300403110021] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		П	
660	Infiltration Basin [0300405060023] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		П	TV
670	Rock Channel/Swale [0300404030026] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		· [5]	TV
680	Rock Channel/Swale [0300404030027] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			ー
690	Rock Channel/Swale [0300404030028] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	Б.		
700	Rock Channel/Swale [0300404030029] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		F3	
710	Rock Channel/Swale [0300404030030] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		П.	<u></u>
720	Rock Channel/Swale [0300404030031] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			
730	Erosion Control Blanket [0300401060032] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			ア
740	Erosion Control Blanket [0300401060059] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	· -	П	<u> </u>
750	Rip Rap [0300404060033] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			
760	Rip Rap [0300404060038] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	——————————————————————————————————————		
770	Rip Rap [0300404060039] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	— <u>—</u>		
780	Rip Rap [0300404060058] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		ъ.	
790	Retaining Wall [0300403080034] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		Б.	
800	Straw Wattle [0300403060054] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	——————————————————————————————————————		
810	Straw Wattle [0300403060055] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	—- <u>I</u>		<u> </u>
820	Straw Wattle [0300403060056] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			
830	Straw Wattle [0300403060057] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			
840	Trench Drain [0300409040035] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			
850	Trench Drain [0300409040036] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			
860	EnviroSoxx w/ MetalLoxx [0300403200045] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			
870	EnviroSoxx w/ MetalLoxx I03004032000481 Control Measure is operating effectively? If	<u> </u>	<u></u> -	

Report:					
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bor F	Report				
Labor Burgin,	Jillian Assigned Work Date 11/30/2019 / 1	Reg Hrs	OT Hrs	Othe	er Hrs
abor					
			-		
1100	Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed.	,		п	<u> </u>
080	describe.				
Non-Co	ompliance Free of incidents of observed non-compliance not already identified above? If "No"				
1060	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe.				<u></u>
1050	Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe.	_		_ <u></u>	_ <u> ~</u>
1040	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.				_ /
1020	and operating)? If "No" describe. Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.			_ }_ _	
1010	"No" describe. Locations and sources of run-on to the site: controls adequate (appropriate, effective, and appropriate) If "No" describe.				10 10
1000	operating)? If "No" describe. Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If				
90	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe. Waste handling and disposal areas: controls adequate (appropriate, effective, and	v 			_T/
980	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		П	<u></u>	Г
970	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.				
960	Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.				_ [v
950	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.				[·
940	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.				
930	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.		П	П	レ
920	Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.				
omm 910	ent). Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		. D		[~
Area/A	Activity exposed to stormwater (identify needed mainteance or a description of correc	tive actio	ns in re	evant 1	ask
390	EnviroSoxx w/ MetalLoxx [0300403200050] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.				<u>[/</u>
380	"No" describe condition & need for Maintenance, Repair, or Replacement. EnviroSoxx w/ MetalLoxx [0300403200049] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			2_	

Signature / Name	Date ded is true, accurate and complete	Signature / Name	Date
"I certify under penalty of law that the accordance with a system designed to		re prepared under my direction of	

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

Print name and title:	Russell Stone	GL	DESH-UTS	959
Signature: May	. Olfan		Date:	12/4/2019

Work Order MSGP-RI-64122

MSGP Routine Inspection Printed 12/10/2019 - 10:01 AM

Maintenance Details

Requested: 12/10/2019 9:56:32 AM

Procedure: MSGP Routine Facility

Inspection (EPC-CP-Form-

1020.2)

11/26/2019

Project: Routine Facility Inspections

Last PM:

December 2019 (P-MSGP-RI-

5424)

Reason: 2019 December Inspections

Target: 12/31/2019

Priority/Type: Normal / Inspection

Department: Utilities and Infrastructure

MSGP Program 森 RG121.9

📥 TA-3-22 Power & Steam Plant

Contact: Phone:

rasks							
#	Description			Meas.	No	N/A	Yes
Weat	her Information	10 Am					/
20	Describe the weather at time of inspection and document the temperature (F°).	Clear	29	·C			
Withi	n the Facility Boundary	7,22,43					
	Is the facility free of new discharges of pollutants that have occurred since the las	t inspection	? If				
40	"Failed" describe.						
50	If "No" has a CAR been previously initiated for this new discharge?					_7	
60	Is the facility free of discharge of pollutants at the time of inspection? If "No" description at the facility free of discharge of pollutants at the time of inspection?						_7_
70	Is the facility free of evidence of, or the potential for, pollutants entering the draina "No" describe.	ge system.	lf				P
Outfa	Il Inspection (identify needed maintenance and repairs, failed control measures	that need	repla	cement o	or a des	scrintic	n of
	ctive actions in relevant task comment)			,		, o p	
90	Monitored Outfall [005] Free of Evidence of Erosion? If "No", describe.					i.i	
100	Monitored Outfall [005] Flow Dissipation Devices Operating Effectively? If "No",			_			_F_
440	Monitored Outfall [005] Free of Evidence of Pollutants in Discharges and/or Rec	eiving Wate	er? If		_	_	_/
110	"No", describe.	HE DOMESTIC					<u></u>
120	Monitored Outfall [005] Free of any unauthorized non-stormwater discharges? If	"No" descr	ibe.		므	₽.	
130 140	Monitored Outfall [009] Free of Evidence of Erosion? If "No", describe.	1 21 -					<u> </u>
140	Monitored Outfall [009] Flow Dissipation Devices Operating Effectively? If "No",		-0.16				
150	Monitored Outfall [009] Free of Evidence of Pollutants in Discharges and/or Rec "No", describe.	elving vvate	er? If			To the	<u>.</u>
160	Monitored Outfall [009] Free of any unauthorized non-stormwater discharges? If	"No" descr	ibe.				
170	Monitored Outfall [012] Free of Evidence of Erosion? If "No", describe,					F	17
180	Monitored Outfall [012] Flow Dissipation Devices Operating Effectively? If "No",	describe.					7
	Monitored Outfall [012] Free of Evidence of Pollutants in Discharges and/or Rec		r? If				
190	"No", describe.						
200	Monitored Outfall [012] Free of any unauthorized non-stormwater discharges? If	"No" descr	ibe.				
210	Substantially Identical Outfall [006] Free of Evidence of Erosion? If "No", descri						
220	Substantially Identical Outfall [006] Flow Dissipation Devices Operating Effective	ely? If "No"	1		_	_	_
220	describe.	- 17					
230	Substantially Identical Outfall [006] Free of Evidence of Pollutants in Discharge Receiving Water? If "No", describe.	s and/or			T	П	
	Substantially Identical Outfall [006] Free of any unauthorized non-stormwater d	ischarges?	lf -				
240	"No" describe.	ioonargoo.				Πi	V
250	Substantially Identical Outfall [007] Free of Evidence of Erosion? If "No", descri	be.				П	P
260	Substantially Identical Outfall [007] Flow Dissipation Devices Operating Effective describe.	ely? If "No"	,			П	V
270	Substantially Identical Outfall [007] Free of Evidence of Pollutants in Discharge: Receiving Water? If "No", describe.	s and/or					
280	Substantially Identical Outfall [007] Free of any unauthorized non-stormwater di "No" describe.	scharges?	lf			Г	□
290	Substantially Identical Outfall [008] Free of Evidence of Erosion? If "No", descri	be.				Г	V
							d

300	Substantially Identical Outfall [008] Flow Dissipation Devices Operating Effectively? If "No", describe.				
240	Substantially Identical Outfall [008] Free of Evidence of Pollutants in Discharges and/or				
310	Receiving Water? If "No", describe. Substantially Identical Outfall [008] Free of any unauthorized non-stormwater discharges? If		<u>E</u>		. <u>"</u>
320	"No" describe.				
330	Substantially Identical Outfall [010] Free of Evidence of Erosion? If "No", describe. Substantially Identical Outfall [010] Flow Dissipation Devices Operating Effectively? If "No",				
340	describe.			П	F /
350	Substantially Identical Outfall [010] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		Г	П	ᅜ
360	Substantially Identical Outfall [010] Free of any unauthorized non-stormwater discharges? If "No" describe.			П.	IA
370	Substantially Identical Outfall [011] Free of Evidence of Erosion? If "No", describe.		T-		7
380	Substantially Identical Outfall [011] Flow Dissipation Devices Operating Effectively? If "No", describe.				
390	Substantially Identical Outfall [011] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.				
400	Substantially Identical Outfall [011] Free of any unauthorized non-stormwater discharges? If "No" describe.		F		_ [√
Contr	ol Measures (identify needed maintenance and repairs, failed control measures that need repla	cment, or	a desc	ription	ı of
	ctive actions in relevant task comments).	-,			
420	Asphalt Berm [0300403040001] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.				_\\\ _\\\
430	Asphalt Berm [0300403040006] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.				P
440	Asphalt Berm [0300403040008] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.				
450	Asphalt Berm [0300403040009] Control Measure is operating effectively? If "No." describe condition & need for Maintenance, Repair, or Replacement.		_r<		
460	Asphalt Berm [0300403040010] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.				
470	Asphalt Berm [0300403040052] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.				
480	Asphalt Berm [0300403040053] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.				
490	Gravel Bags [0300403100002] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.				
500	Gravel Bags [0300403100012] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.				
510	Gravel Bags [0300403100013] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.				Þ
520	Gravel Bags [0300403100014] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		E		
530	Gravel Bags [0300403100015] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.				21
540	Gravel Bags [0300403100016] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		Ti-		<u>r</u>
550	Gravel Bags [0300403100051] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.				<u>r</u>
560	Concrete/Asphalt Channel/Swale [0300404020003] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.				_F_
570	Concrete/Asphalt Channel/Swale [0300404020005] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		_==		
580	Concrete/Asphalt Channel/Swale [0300404020024] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		П		V
590	Concrete/Asphalt Channel/Swale [0300404020025] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			Г	P
600	Concrete/Asphalt Channel/Swale [0300404020037] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement:			Г	P
610	Concrete/Asphalt Channel/Swale [300404020004] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.				P
620	Eco-Block [0300403110018] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		П.		P

630	Eco-Block [0300403110019] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			\mathbb{R}	I
640	Eco-Block [0300403110020] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement,			Г	I
650	Eco-Block [0300403110021] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.				
660	Infiltration Basin [0300405060023] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		Г	П	
670	Rock Channel/Swale [0300404030026] Control Measure is operating effectively? If "No" - describe condition & need for Maintenance, Repair, or Replacement. Construction	Gardner	П	E.	√
680	Rock Channel/Swale [0300404030027] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		_		
	Rock Channel/Swale [0300404030028] Control Measure is operating effectively? If "No"			361	
690	describe condition & need for Maintenance, Repair, or Replacement. Rock Channel/Swale [0300404030029] Control Measure is operating effectively? If "No"		1		
700	describe condition & need for Maintenance, Repair, or Replacement.				
710	Rock Channel/Swale [0300404030030] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	renkl	П	П	V
720	Rock Channel/Swale [0300404030031] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. Construction	our her		П	[√
730	Erosion Control Blanket [0300401060032] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement,	tente -			
740	Erosion Control Blanket [0300401060059] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.				
750	Rip Rap [0300404060033] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			<u> </u>	_ <u></u>
760	Rip Rap [0300404060038] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.				<u> </u>
770	Rip Rap [0300404060039] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		Б	П	₽ I
780	Rip Rap [0300404060058] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		Б.		
790	Retaining Wall [0300403080034] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			П	
800	Straw Wattle [0300403060054] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		П		TE/
810	Straw Wattle [0300403060055] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		Г	г	-/-
820	Straw Wattle [0300403060056] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		П	П	
830	Straw Wattle [0300403060057] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		П		
840	Trench Drain [0300409040035] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	-		П	<u></u>
850	Trench Drain [0300409040036] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.				_ <u></u>
860	EnviroSoxx w/ MetalLoxx [0300403200045] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		<u>. </u>	- 2	<u> ~</u>
	EnviroSoxx w/ MetalLoxx [0300403200048] Control Measure is operating effectively? If "No"		<u> </u>	. ()	
870	describe condition & need for Maintenance, Repair, or Replacement. EnviroSoxx w/ MetalLoxx [0300403200049] Control Measure is operating effectively? If "No"			<u></u>	
880	describe condition & need for Maintenance, Repair, or Replacement.				_ T
890	EnviroSoxx w/ MetalLoxx [0300403200050] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.			Ţį.	_F_
Area/A	Activity exposed to stormwater (identify needed mainteance or a description of corrective action	ons in releva	int tas	k com	ment).
910	Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.				_IQ
920	Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.				
930	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.		<u></u>	П	7
940	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.		П	П	€
950	Industrial processing and finished product storage areas: controls adequate (appropriate,			П	I

	effective, and operating)? If "No" describe.	
960	Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	
970	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	
980	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	
990	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.	
	Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If	
1000	"No" describe.	
1010	Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.	
1020	Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.	
1030	Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.	
1040	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.	
1050	Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe.	
1060	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe.	
Non-C 1080	ompliance Free of incidents of observed non-compliance not already identified above? If "No" describe.	ППБ
	onal Control Measures Are permit requirements satisfied with existing control measure(s)? If "No" describe additional	
1100	control measures needed.	
Labor Shendo Labor F	Assigned Work Date 12/10/2019 / 1 Report	Reg Hrs OT Hrs Other Hrs
Completion CA#1 CA#1 CA#1 CA#1 CA#1 CA#1	Dumpster on the southwest currer of 03-0022 were not closed affect inspection (10:45 am) House Keeping just west of tank 336 trash needs to be MSU. Signature / Name Date Signature / Name	closed (10 am). Were De disposed of.
I confin	n the information as recorded is true, accurate and complete.	
system des person or p the best of false inform	CERTIFICATION STATEMENT Inder penalty of law that this document and all attachments were prepared under my direction of gned to assure that qualified personnel properly gathered and evaluated the information submit ersons who manage the system, or those persons directly responsible for gathering information my knowledge and belief, true, accurate, and complete. I am aware that there are significant penation, including the possibility of fine and imprisonment for knowing violations." Just meet definition in Section B.11.A, eg. FOD, Ops Mgr, DESH Group Leader, EPC Group Leader)	itted. Based on my inquiry of the interest in the information submitted is, to
Print name	and title: Pussell Stone GL DESH-UIS	
Signature:	(lucial) Ton Date: 1/8/2020	

TA-03-22 Power and Steam Plant

MSGP Stormwater Pollution Prevention Plan Revision 1, January 2020

ATTACHMENT 8: QUARTERLY VISUAL ASSESSMENTS



To: Jillian Burgin, DESH-UIS, B274
Thru: Terrill Lemke, EPC-CP, K490
Holly Wheeler, EPC-CP, K490

Phone: 505-667-1312 Symbol: EPC-DO: 19-185 Date: JUL 0 3 2019

Subject: National Pollutant Discharge Elimination System (NPDES) Permit Tracking No. NMR050013, Multi-Sector General Permit (MSGP) Quarterly Visual Assessment (QVA) Forms for April and May of 2019 for the TA-3-22 Power and Steam Plant

Please find attached completed MSGP QVA forms documenting visual assessments performed during the first quarter of monitoring at the TA-3-22 Power and Steam Plant. Per Parts 3.2.2 and 5.5 of the 2015 MSGP, the signed certification statement and associated QVA forms shall be incorporated into your MSGP Stormwater Pollution Prevention Plan (SWPPP).

Part 3.2.1 of the 2015 MSGP requires the visual assessment of stormwater discharge samples collected from each outfall once each quarter for the entire permit term. Part 3.2.3 allows facilities that are located in an area with a semi-arid climate and/or in an area where freezing conditions exist for an extended period to distribute the quarterly visual assessments during seasons when precipitation runoff occurs. Accordingly, Triad National Security, LLC (Triad) has designated the following MSGP monitoring quarters.

Quarter 1: April – May Quarter 2: June – July

Quarter 3: August – September Quarter 4: October - November

The attached QVA forms document the following information required by Part 3.2.2 of the 2015 MSGP and were completed by Environmental Compliance Programs (EPC-CP) personnel.

- Sample location;
- Sample collection date and time, and visual assessment date and time for each sample;
- Personnel collecting the sample and performing the visual assessment, and their signatures;
- Nature of the discharge (i.e., runoff or snowmelt);
- Results of observations of the stormwater discharge;
 Probable sources of any observed stormwater contamination (if applicable);
- If applicable, why it was not possible to take a sample within the first 30 minutes of the storm event.

The EPC-CP Group Leader has signed the certification statement to meet the duly authorized signatory requirements for the QVAs contained in Attachment 1.



EPC-DO: 19-185 Jillian Burgin

I certify under penalty of law that this document and all attachments 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.

<u>Taunia Van Valkenburg, EPC-CP Group Leader</u> Los Alamos National Laboratory

Manager Signature

Please contact Holly Wheeler at 667-1312 (hbenson@lanl.gov) if you have questions regarding the QVA documentation. Thank you for your assistance in meeting the requirements of the Laboratory's NPDES 2015 MSGP.

Facility Name	Sampling Station	Work Order#
TA-3-22 Power & Steam Plant	MSGP00901	MSGP-63605
TA-3-22 Power & Steam Plant	MSGP00501	MSGP-63606
TA-3-22 Power & Steam Plant	MSGP00801	MSGP-63620
TA-3-22 Power & Steam Plant	MSGP01001	MSGP-63621
TA-3-22 Power & Steam Plant	MSGP00601	MSGP-63622
TA-3-22 Power & Steam Plant	MSGP01101	MSGP-63623

TWL/HLW:jdm

Attachment(s): Attachment 1 Quarterly Visual Assessment Forms, First Quarter, 2019
Monitoring Year



Copy: Michael Hazen, ALDESHQSS, mhazen@lanl.gov, (E-File)
William Mairson, ALDESHQSS, wrmairson@lanl.gov, (E-File)
Enrique Torres, EPC-DO, etorres@lanl.gov, (E-File)
Russell Stone, DESH-UIS, rdstone@lanl.gov, (E-File)
Taunia Van Valkenburg, EPC-CP, tauniav@lanl.gov, (E-File)
Terrill Lemke, EPC-CP, tlemke@lanl.gov, (E-File)
adesh-records@lanl.gov, (E-File)
epc-correspondence@lanl.gov, (E-File)



ATTACHMENT 1

Quarterly Visual Assessment Forms, First Quarter, 2019 Monitoring Year

EPC-DO: 19-185

JUL 0 3 2019

Date: _____

Maintenance Details

Work Order MSGP-63605

MSGP Monitoring Stations Printed 5/21/2019 - 4:39 PM

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ription his VA applies to associated SI nation	Os as defir			:			
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his VA applies to associated SI	∩s as defir						
nation	Os as defir			Meas.	No	N/A	Yes
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nent the Date/time sample collect d/yy hh:mm format).	ed in the "F	leading" field of this line (us	sing	4/23/19 @ 14:19			IV.
nent the Date/time sample visuall mm/dd/yy hh:mm format).	y assessed	in the "Reading" field of thi	s line	4/23/19 @ 14:19		3	
nent the nature of discharge (e.g. the "Reading" field of this line.	rain, snow	melt). Document the TOTA	L amount	rain 0.05			TY_
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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: Taunia Van Valkenburg, EPC-CP Group Leader

Signature: (See signature on file)

Date:

Work Order MSGP-63606

MSGP Monitoring Stations Printed 5/21/2019 - 4:40 PM

	nce Details				
-	Assessment (EPC-CP-Form- Assessment (EPC-CP-Form- Department: Utilities and Infrastructure	MSGP Program RG121.9 TA-3-22 Power Monitored Outfa	& Stear		
ast PM:	4/22/2010	MSGP00501	III (005)		
Project:	Visual Assessments 4/1/2019 (P-MSGP-5366)				
Reason: N	10000	ntact: one:			
asks					
# D	escription	Meas.	No	N/A	Yes
The result	of this VA applies to associated SIOs as defined in the SWPPP, where applic	cable.			
-	formation				
	ocument the monitoring Period (e.g., Apr-May)	Apr-May			
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	ocument the Date/time sample collected in the "Reading" field of this line (using m/dd/yy hh:mm format).	4/22/19 @ 21:49		_5	
0 (u	ocument the Date/time sample visually assessed in the "Reading" field of this line using mm/dd/yy hh:mm format).	4/23/19 @ 09:57			
0 <u>(ir</u>	ocument the nature of discharge (e.g., rain, snowmelt), Document the TOTAL amon) in the "Reading" field of this line.	ount rain 0.74			1
	ample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a eason.		Г	Г	1
arameter	S			-	
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30 Is	sample clear? If "Failed", provide description (e.g., slightly cloudy, cloudy, opaque	Slightly cloudy	136		П.
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50 Is	sample free of settled solids? If "Failed", provide description (e.g., fine, course).	Fine	JX.		_(v)
	sample free of suspended solids? If "Failed", provide description (e.g., fine, course				17/
ls	sample foamless after gently shaking? If "Failed" describe foam color and location.g., on the surface' or 'in the sample').		126		
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ompleted	1: 4/23/2019 9:57:00 AM				
ompleted	arwin Shendo				
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CERTIFICATION STATEMENT

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

Print name and tit	le: <u>Taunia Van Valkenburg, EPC</u>	-CP Group Leader	
Signature:	(See signature on file)	Date:	

Maintenance Details

Work Order MSGP-63620

MSGP Monitoring Stations Printed 5/21/2019 - 4:38 PM

	MSGP Quarterly Visual Assessment (EPC-CP-Form- 1021,2)	GP Quarterly Visual Priority/Type: Normal / Inspection 品 Ressment (EPC-CP-Form-Department: Utilities and Infrastructure M M			MSGP Program RG121.9 TA-3-22 Power & Steam Plant Monitored Outfall (009)			
Project:	4/23/2019				tantially Ider		outfall (0	008)
	SIO Visual Assessments 4/1/19 (P-MSGP-5367)			rå MSG			·	,
Reason: MS	SGP Quarterly Visual Assessm	ent		Contact Phone:	:			
ısks								
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	ample devoid of an oil sheen?		ribe color and thickness (e.g	flecks,		P.		red
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La a safirma Alaa	indiamonation.		to America		
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: Taunia Van Valkenburg, EPC-CP Group Leader

Signature: (See signature on file) Date:

Work Order MSGP-63621

MSGP Monitoring Stations Printed 5/21/2019 - 4:38 PM

-	: 4/23/2019 3:33:00 PM MSGP Quarterly Visual Assessment (EPC-CP-Form- 1021.2) 4/23/2019 SIO Visual Assessments 4/1/19 (P-MSGP-5367)	Target: Priority/Type: Department:	5/31/2019 Normal / Inspection Utilities and Infrastructure	品 RG1 A TA-3 A Moni Subs	GP Program 21.9 -22 Power 8 itored Outfal stantially Iden GP01001	l (009)		
eason: N	477719 (F-MSGF-5367) MSGP Quarterly Visual Assessm	ent		Contact Phone:	::			
asks								
# De	escription				Meas.	No	N/A	Yes
he result	of this VA applies to associat	ed SIOs as defi	ned in the SWPPP, where	e applicable				
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Date

CERTIFICATION STATEMENT

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

(Signatory must meet definition in Section B.11.A, eg. FOD, Ops Mgr, DESH Group Leader, EPC Group Leade									
Print name an	nd title: Taunia Van Valkenburg, EPC-	CP Group Leader							
Signature:	(See signature on file)	Date:							

Work Order MSGP-63622

MSGP Monitoring Stations Printed 5/21/2019 - 4:40 PM

Mainte	nance Details							
Procedure: MSGP Quarterly Visual Assessment (EPC-CP-Form- 1021.2) Last PM: 4/23/2019 Project: SIO Visual Assessments 4/1/19 (P-MSGP-5367)				MSGP Program RG121.9 TA-3-22 Power & Steam Plant Monitored Outfall (005) Substantially Identical Outfall (006) MSGP00601				
Reasor	n: MSGP Quarterly Visual Assessme	ent		Contact Phone:	L.			
asks								
#	Description				Meas.	No	N/A	Yes
Γhe re	sult of this VA applies to associate	d SIOs as defi	ned in the SWPPP, where a	pplicable				
Sampl	e information							
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10	Document the Date/Time Discharg mm/dd/yy hh:mm format).	e began in the "	Reading" field of this line (us	sing	04/23/19 10:35			I
50	Document the Date/time sample comm/dd/yy hh:mm format).				04/23/19 10:23			T.
80	Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format).				04/23/19 16:47		_П_	T/
70	Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line.							T/
30	Sample collected in first 30 minutes reason.	of discharge?	If "Failed" or unknown, provi	ide a				V
Param	eters							
140	0.15115 11 11 11				Medium		_	
20	Is sample colorless? If "Failed", de: Is sample oderless? If "Failed", pro solvent, petroleum/gas)		ı (e.g. musty, sewage, sulfur,	sour,	brown	[X		
30	Is sample clear? If "Failed", provide	description (e	a eliabtly cloudy cloudy on	iadire)	Opaque	136		
40	Is sample free of floating solids? If comments of this line.				Opaque			IV.
50	is sample free of settled solids? If "	Failed", provide	description (e.g., fine, cours	se).	Fine	1M		
60	Is sample free of suspended solids				Fine	IX.		
70	Is sample foamless after gently sha (e.g., on the surface or 'in the same	aking? If "Failed						N.
80	Is sample devoid of an oil sheen? I globs).	f "Failed", descr	ibe color and thickness (e.g.	flecks,				T/
90	Is sample free of other obvious indi	cators of pollution	on? If "Failed", describe.			П		
Compl	Report eted: 4/23/2019 4:47:00 PM : 4/29/2019 - 118432: Holly Wheeler							
	Handley -	4/29/2019						

EPC-DO: 19-185

Date

CERTIFICATION STATEMENT

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

(Signatory m	nust meet definition in Section B.11.A, eg	FOD, Ops Mgr, DESH Group Leader, EPC Group Leader
Print name ar	nd title: <u>Taunia Van Valkenburg, EPC-</u>	CP Group Leader
Signature:	(See signature on file)	Date:

Target:

5/31/2019

Maintenance Details

Requested: 4/23/2019 3:33:00 PM

Work Order MSGP-63623

iggi MSGP Program

MSGP Monitoring Stations Printed 5/21/2019 - 4:41 PM

rocedure:	MSGP Quarterly Visual Assessment (EPC-CP-Form- 1021.2) 4/23/2019	Priority/Type: Normal / Inspection Department: Utilities and Infrastructure	# RG121.9 # TA-3-22 Power # Monitored Outfa	II (012)		
Project:	SIO Visual Assessments 4/1/19 (P-MSGP-5367)		Substantially Ide	ntical C	outraii (C	J11)
Reason: M	ISGP Quarterly Visual Assessm	ent	Contact: Phone:			
isks						
# De	escription		Meas.	No	N/A	Yes
		ed SIOs as defined in the SWPPP, where	applicable.			
ample inf o Do	ormation ocument the monitoring Period (e.g. Apr May)	April/May	_		17/
		e.g., Apr-may) ge began in the "Reading" field of this line (u	April/May using 04/23/19	3		
	n/dd/yy hh:mm format).	go bogan in the Treating held of this lifte (t	10:35			
Do 0 mn	cument the Date/time sample c n/dd/yy hh:mm format)	ollected in the "Reading" field of this line (us		г		ri/
		isually assessed in the "Reading" field of thi				
	sing mm/dd/yy hh:mm format).	,	16:36			1
	cument the nature of discharge) in the "Reading" field of this lin	(e.g., rain, snowmelt), Document the TOTA e.	L amount Rain 0.05 inches		П	10
Sa	mple collected in first 30 minute	s of discharge? If "Failed" or unknown, prov	vide a			
0 rea	ason.					10
arameters	;					
10 Is s	sample colorless? If "Failed", de	escribe				
	sample oderless? If "Failed", pro vent, petroleum/gas)	ovide description (e.g. musty, sewage, sulfur	r, sour,	. П		IV
30 ls s	sample clear? If "Failed", provid	e description (e.g., slightly cloudy, cloudy, o	paque).	. 4		TV.
	sample free of floating solids? If mments of this line.	"Failed", describe if raw or waste material(s	s) in the	П		TV.
50 ls s	sample free of settled solids? If	"Failed", provide description (e.g., fine, cour	se)			1
60 ls s	sample free of suspended solids	? If "Failed", provide description (e.g., fine,	course).			F/
	sample foamless after gently sh g.,'on the surface' or 'in the sam	aking? If "Failed" describe foam color and lo	ocation			IV
	sample devoid of an oil sheen?	If "Failed", describe color and thickness (e.g	J. flecks,			
	bs).		·		J.	
90 Is s	sample free of other obvious ind	icators of pollution? If "Failed", describe,		- 2		TY.
ls s 80 glo	sample devoid of an oil sheen? bs). sample free of other obvious ind	If "Fa	illed", describe color and thickness (e.g	rs of pollution? If "Failed", describe.	<u></u>	
4/23	/2019 4:36:00 PM					
	\ 					
eport: 4/2: ===	9/2019 - 118432: Holly Wheele	r 				
71	An Lull	4/29/2019				
	gnature Wame		ire / Name	-	Date	
EPC-F	OC: 19-185	Attachment 1			11	

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)

Signature: (See signature on file) Date:

Print name and title: Taunia Van Valkenburg, EPC-CP Group Leader



To: Jillian Burgin, DESH-UIS, B274

Thru: Terrill Lemke, EPC-DO, K490

From: Holly Wheeler, EPC-CP, K490 Volta

Phone: 505-667-1312 Symbol: EPC-DO: 19-307 SEP 0 3 2019 Date:

Subject: National Pollutant Discharge Elimination System (NPDES) Permit Tracking No. NMR050013, Multi-Sector General Permit (MSGP) Quarterly Visual Assessment (QVA) Forms for June and July of 2019 for the TA-3-22 Power and Steam Plant

Please find attached completed MSGP QVA forms documenting visual assessments performed during the second quarter of monitoring at the TA-3-22 Power and Steam Plant. Per Parts 3.2.2 and 5.5 of the 2015 MSGP, the signed certification statement and associated QVA forms shall be incorporated into your MSGP Stormwater Pollution Prevention Plan (SWPPP).

Part 3.2.1 of the 2015 MSGP requires the visual assessment of stormwater discharge samples collected from each outfall once each quarter for the entire permit term. Part 3.2.3 allows facilities that are located in an area with a semi-arid climate and/or in an area where freezing conditions exist for an extended period to distribute the quarterly visual assessments during seasons when precipitation runoff occurs. Accordingly, Triad National Security, LLC (Triad) has designated the following MSGP monitoring quarters.

Quarter 1: April – May Quarter 2: June – July

August – September Quarter 3: Ouarter 4: October - November

The attached QVA forms document the following information required by Part 3.2.2 of the 2015 MSGP and were completed by Environmental Compliance Programs (EPC-CP) personnel.

- Sample location;
- Sample collection date and time, and visual assessment date and time for each sample;
- Personnel collecting the sample and performing the visual assessment, and their signatures;
- Nature of the discharge (i.e., runoff or snowmelt);
- Results of observations of the stormwater discharge:
- Probable sources of any observed stormwater contamination (if applicable);
- If applicable, why it was not possible to take a sample within the first 30 minutes of the storm event.



EPC-DO: 19-307 Jillian Burgin

The EPC-CP Group Leader has signed the certification statement to meet the duly authorized signatory requirements for the QVAs contained in Attachment 1.

I certify under penalty of law that this document and all attachments 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.

Taunia Van Valkenburg, EPC-CP Group Leader

Los Alamos National Daboratory

Manager Signature

9/3/2019

Please contact Holly Wheeler at 667-1312 (hbenson@lanl.gov) if you have questions regarding the QVA documentation. Thank you for your assistance in meeting the requirements of the Laboratory's NPDES 2015 MSGP.

Facility Name	Sampling Station	Work Order #	
TA-3-22 Power & Steam Plant	MSGP00501	MSGP-63614	
TA-3-22 Power & Steam Plant	MSGP00801	MSGP-63616	
TA-3-22 Power & Steam Plant	MSGP00901	MSGP-63617	
TA-3-22 Power & Steam Plant	MSGP01001	MSGP-63795	
TA-3-22 Power & Steam Plant	MSGP00601	MSGP-63796	
TA-3-22 Power & Steam Plant	MSGP01001	MSGP-63805	
TA-3-22 Power & Steam Plant	MSGP00801	MSGP-63806	
TA-3-22 Power & Steam Plant	MSGP01101	MSGP-63815	

TWL/HLW:jdm

Attachment(s): Attachment 1 Quarterly Visual Assessment Forms, Second Quarter, 2019
Monitoring Year



EPC-DO: 19-307 Jillian Burgin

Copy: Michael Hazen, ALDESHQSS, mhazen@lanl.gov
William Mairson, ALDESHQSS, wrmairson@lanl.gov
Enrique Torres, EPC-DO, etorres@lanl.gov
Jennifer Payne, EPC-DO, jpayne@lanl.gov
Russell Stone, DESH-UIS, rdstone@lanl.gov
Taunia Van Valkenburg, EPC-CP, tauniav@lanl.gov
Terrill Lemke, EPC-CP, temke@lanl.gov
adesh-records@lanl.gov
epccorrespondence@lanl.gov



ATTACHMENT 1

Quarterly Visual Assessment Forms, Second Quarter, 2019 Monitoring Year

EPC-DO: 19-307

Date:	SEP 0 3 2019

Work Order MSGP-63614

-	ed: 6/19/2019 2:17:00 PM re: MSGP Quarterly Visual		7/31/2019 Normal / Inspection Utilities and Infrastructure	品 RG12 ♣ TA-3-2	22 Power & ored Outfal		n Plant	
Project:	Visual Assessments 6/1/19 (P-MSGP-5378)			and IVISGP	700501			
Reason:	MSGP Quarterly Visual Assessm	nent		Contact: Phone:				
asks								
#	Description				Meas.	No	N/A	Yes
The resu	ult of this VA applies to associat	ed SIOs as defi	ned in the SWPPP, where a	applicable.				
Sample	information							
	Document the monitoring Period (jun-jul	, j		
	Document the Date/Time Dischargemm/dd/yy hh:mm format).	ge began in the '	'Reading" field of this line (u	sing	6/15/19 18:56			TV.
	Document the Date/time sample of	collected in the "f		 ina	6/15/19	-8		
	mm/dd/yy hh:mm format).			<u>.</u>	18:56			
60	Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format).				6/18/19 14:59	_п_		ľ
	Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line.				rain .05			10
	Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason.					П	7	TV.
Paramet	ers							
	Is sample colorless? If "Failed", de	escribe.			brown	TM	-	П
	Is sample oderless? If "Failed", pr solvent, petroleum/gas)		n (e.g. musty, sewage, sulfur	, sour	musty	rat .		
130	Is sample clear? If "Failed", provide	e description (e.	g., slightly cloudy, cloudy, or	aque).	opaque	TX.	F2	
	Is sample free of floating solids? I comments of this line.	f "Failed", descri	be if raw or waste material(s) in the	:			TV.
50	Is sample free of settled solids? If	"Failed", provide	e description (e.g., fine, cours	se).	fine	IX.		
60	Is sample free of suspended solid	s? If "Failed", pro	ovide description (e.g., fine, o	course).				TV.
	Is sample foamless after gently sh (e.g., on the surface' or 'in the sam		" describe foam color and lo	cation		_	_	r/
	Is sample devoid of an oil sheen?		ribe color and thickness (e.a.	flecks.	7	-11		
180	globs).			,				ľ
190	Is sample free of other obvious inc	licators of polluti	on? If "Failed", describe.				1	
abor Re	eport							
Complete	ed: 6/18/2019 2:59:00 PM							
Report:	Marwin Shendo							

Signature / Name Date I confirm the information as recorded is true, accurate and complete. EPC-DO: 19-307 Attachment 1

1

Date

Signature / Name

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: Taunia Van Valkenburg, EPC-CP Group Leader

Signature: (See signature on file)

Date:

Work Order MSGP-63616

MSGP Monitoring Stations Printed 8/6/2019 - 9:07 AM

faintenance Details						
Requested: 6/13/2019 4:24:00 PM Procedure: MSGP Quarterly Visual	Monitored Outfall Substantially Iden MSGP00801	RG121.9 TA-3-22 Power & Steam Plant Monitored Outfall (009) Substantially Identical Outfall (008)				
Reason: MSGP Quarterly Visual Assessment	Contact: Phone:					
asks						
# Description	Meas.	No N/A	Yes			
The result of this VA applies to associated SIOs as defined in the SWPPP, who	ere applicable.					
Sample information						
Document the monitoring Period (e.g., Apr-May) Document the Date/Time Discharge began in the "Reading" field of this lin	June-July le (using 06/03/2019 at	10 13				
mm/dd/yy hh:mm format).	14:55		<u>r</u>			
Document the Date/time sample collected in the "Reading" field of this line mm/dd/yy hh:mm format).	e (using 06/03/2019 at 14:55					
Document the Date/time sample visually assessed in the "Reading" field o (using mm/dd/yy hh:mm format).	of this line 06/04/2019 at 09:48					
Document the nature of discharge (e.g., rain, snowmelt). Document the TC amount (in) in the "Reading" field of this line.	DTAL Rain 0.1 in.		TV.			
Sample collected in first 30 minutes of discharge? If "Failed" or unknown, page 180 reason.			TV			
Parameters						
ls sample colorless? If "Failed", describe.			<u>v</u>			
Is sample oderless? If "Failed", provide description (e.g. musty, sewage, so solvent, petroleum/gas)	ulfur, sour					
Is sample clear? If "Failed", provide description (e.g., slightly cloudy, cloud opaque).	y		14			
Is sample free of floating solids? If "Failed", describe if raw or waste mater comments of this line.	rial(s) in the	E E	16			
Is sample free of settled solids? If "Failed", provide description (e.g., fine, or	course).		1			
Is sample free of suspended solids? If "Failed", provide description (e.g., fi course).	ine,					
Is sample foamless after gently shaking? If "Failed" describe foam color ar (e.g., on the surface or 'in the sample').	nd location		TV.			
Is sample devoid of an oil sheen? If "Failed", describe color and thickness flecks, globs).	(e.g.		TV.			
ls sample free of other obvious indicators of pollution? If "Failed", describe	×		TV.			
abor Report						
Completed: 6/4/2019 9:48:00 PM						
Report: Holly Wheeler						
6/14/2019						

Alywheil			
Signature / Name I confirm the information as recorded	Date	Signature / Name	Date
	CERTIFICATION	N STATEMENT	
certify under penalty of law that this do		* *	•

"I certify under penalty of law that this document and all attachments 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: Taunia Van Valkenburg, EPC-CP Group Leader

Signature: (See signature on file)

Date:

Work Order MSGP-63617

Mainton	anno Dotailo							ring Stat 9 - 4:27
nainter	nance Details							
	ted: 6/19/2019 2:20:00 PM ure: MSGP Quarterly Visual Assessment (EPC-CP-Form- 1021.2)		7/31/2019 Normal / Inspection Utilities and Infrastructure	## RG12 ## TA-3-2	Program 1.9 22 Power 8 pred Outfa		n Plant	
ast PM	l: 4/23/2019			MSGF		11 (009)		
Project:	Visual Assessments 6/1/19 (P-MSGP-5378)				00301			
Reason	: MSGP Quarterly Visual Assessn	nent		Contact: Phone:				
asks								
#	Description				Meas.	No	N/A	Yes
The res	ult of this VA applies to associat	ed SIOs as defi	ned in the SWPPP, where a	applicable.				
<mark>Sample</mark> 30	information Document the monitoring Period (e.g., Apr-May)			jun-jul	П	п	TV.
10	Document the Date/Time Discharmm/dd/yy hh:mm format).	ge began in the '	'Reading" field of this line (u	sing	6/15/19 18:57		2	
50	Document the Date/time sample omm/dd/yy hh:mm format).	collected in the "F	Reading" field of this line (us	ing	6/15/19 18:57			TV
60	Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format).				6/18/19 14:52	П		<u>v</u>
70	Document the nature of discharge (in) in the "Reading" field of this lin		vmelt). Document the TOTAl	amount	rain .05			TV.
30	Sample collected in first 30 minute reason.	es of discharge?	If "Failed" or unknown, prov	ide a				TV.
Parame	ters							
110	Is sample colorless? If "Failed", de	escribe.			brown	×	П	П
120	Is sample oderless? If "Failed", pr solvent, petroleum/gas)	ovide description	ı (e.g. musty, sewage, sulfur	, sour	musty	124		
130	Is sample clear? If "Failed", provid	le description (e.	g., slightly cloudy, cloudy, op	paque).	slightly cloudy	12		
40	Is sample free of floating solids? I comments of this line.	f "Failed", descril	oe if raw or waste material(s) in the				
150	Is sample free of settled solids? If	"Failed", provide	e description (e.g., fine, cours	se).		-yi		
160	Is sample free of suspended solid							
170	Is sample foamless after gently sh (e.g., on the surface' or 'in the sam	nple').					_6_	TV.
80	Is sample devoid of an oil sheen? globs).	If "Failed", desci	ribe color and thickness (e.g	. flecks,		Î	П	TV.
190	Is sample free of other obvious inc	dicators of polluti	on? If "Failed", describe.					TV.
abor R	eport							
Complet	ted: 6/18/2019 2:52:00 PM							
Report:	Marwin Shendo							
	M-C- 0							_
	1 10Ct.	6/19/2019						

Attachment 1

Date

Signature / Name

Signature / Name

EPC-DO: 19-307

Date

CERTIFICATION STATEMENT

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

(Signatory mus	st meet definition in Section B.11.A, eg	g. FOD, Ops Mgr, DESH Group Leader, E	CPC Group Leader)
Print name and	title: Taunia Van Valkenburg, EPC-	CP Group Leader	
Signature:	(See signature on file)	Date:	

Work Order MSGP-63795

MSGP Monitoring Stations Printed 8/6/2019 - 9:08 AM

Maintenance Details

Requested By: Banar, Alethea on

7/1/2019 2:18:00 PM

Target:

7/31/2019

Department: Utilities and Infrastructure

Priority/Type: / Inspection

Taken By: Banar, Alethea

Procedure: MSGP Quarterly Visual

Assessment (EPC-CP-

Form-1021,2)

Last PM: 7/3/2019

Project: Visual Assessments

6/1/19 (P-MSGP-5378)

Reason: MSGP Quarterly Visual Assessment

MSGP Program

品 RG121.9

♣ TA-3-22 Power & Steam Plant

Monitored Outfall (009)

Substantially Identical Outfall (010)

MSGP01001

Contact: Banar, Alethea Phone: 699-5836

asks					
#	Description	Meas.	No	N/A	Yes
The re	esult of this VA applies to associated SIOs as defined in the SWPPP, where applicable.				
Samp	le information				
30	Document the monitoring Period (e.g., Apr-May) Comments: June/July			_6	
40	Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format). Comments: 6/17/2019 at 14:35.		П		TV.
50	Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format). Comments: 06/17/2019 at 14:35.		Б	Г	r/
60	Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format). Comments: 6/17/2019 at 16:58.		П	Б	rv.
70	Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line. Comments: Rain 0.12"				r/
80	Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason.				TV.
Paran	eters				
110	Is sample colorless? If "Failed", describe.				14
120	Is sample oderless? If "Failed", provide description (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas)		П		14
130	Is sample clear? If "Failed", provide description (e.g., slightly cloudy, cloudy, opaque).		Г		V
140	Is sample free of floating solids? If "Failed", describe if raw or waste material(s) in the comments of this line.				14
150	Is sample free of settled solids? If "Failed", provide description (e.g., fine, course). Comments: Fine		[X		
160	Is sample free of suspended solids? If "Failed", provide description (e.g., fine, course).				<u> </u>
170	Is sample foamless after gently shaking? If "Failed" describe foam color and location (e.g., on the surface or 'in the sample').				10/
180	Is sample devoid of an oil sheen? If "Failed", describe color and thickness (e.g. flecks, globs).				10
190	Is sample free of other obvious indicators of pollution? If "Failed", describe.				

Labor Report

Completed: 6/17/2019 4:58:00 PM

EPC-DO: 19-307 Attachment 1

Report:	Holly Wheeler					
I confirm	Signature / Name	7/1/2019 Date s true, accurate and complete	Signature / Name	Date		
		CERTIFICATION STA	TEMENT			
accordance v Based on my information,	with a system designed to assur y inquiry of the person or perso , the information submitted is, t	e that qualified personnel pro ons who manage the system, o o the best of my knowledge a	re prepared under my direction o perly gathered and evaluated the r those persons directly responsib nd belief, true, accurate, and com the possibility of fine and impris	information submitted ble for gathering uplete. I am aware that		
(Signatory	must meet definition in Section	on B.11.A, eg. FOD, Ops Mg	gr, DESH Group Leader, EPC C	Group Leader)		
Print name a	and title: <u>Taunia Van Valk</u> e	enburg, EPC-CP Group Leade	er			
Signature:	(See signature on file)	,	Date:			

Target:

7/31/2019

Department: Utilities and Infrastructure

Priority/Type: / Inspection

Work Order MSGP-63796

MSGP Monitoring Stations Printed 8/6/2019 - 9:14 AM

Maintenance Details

Requested By: Banar, Alethea on

7/1/2019 2:19:00 PM

Taken By: Banar, Alethea

Procedure: MSGP Quarterly Visual

Assessment (EPC-CP-Form-1021_2)

Last PM: 6/4/2019

Project: Visual Assessments

6/1/19 (P-MSGP-5378)

Reason: MSGP Quarterly Visual Assessment

🚉 MSGP Program

ሑች RG121.9

A TA-3-22 Power & Steam Plant

Monitored Outfall (005)

Substantially Identical Outfall (006)

№ MSGP00601

Contact: Banar, Alethea Phone: 699-5836

Tasks					
#	Description	Meas.	No	N/A	Yes
The r	esult of this VA applies to associated SIOs as defined in the SWPPP, where applicable.				
Samp	le information				
30	Document the monitoring Period (e.g., Apr-May) Comments: June/July			_	57
30	Document the Date/Time Discharge began in the "Reading" field of this line (using				16
40	mm/dd/yy hh:mm format).		_	_	
40	Comments: 6/17/2019 at 14:35. Document the Date/time sample collected in the "Reading" field of this line (using		<u>. I</u>		
	mm/dd/yy hh:mm format).				
50	Comments: 6/17/2019 at 14:35. Document the Date/time sample visually assessed in the "Reading" field of this line				
	(using mm/dd/yy hh:mm format).				
60	Comments: 6/17/2019 at 17:07.				
	Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line.				
70	Comments: Rain 0.12".				
80	Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason.				TV.
Paran				- 4	
Paran	Is sample colorless? If "Failed", describe.				
110	Comments: Medium brown		TX.	1.0	
120	Is sample oderless? If "Failed", provide description (e.g. musty, sewage, sulfur, sour,		_	_	F-4
120	solvent, petroleum/gas) Is sample clear? If "Failed", provide description (e.g., slightly cloudy, cloudy, opaque).				
130	Comments: Opaque		124	18	
	Is sample free of floating solids? If "Failed", describe if raw or waste material(s) in the comments of this line.				
140	Comments: Pollen and bits of vegetation present.		1 20	П	III.
	Is sample free of settled solids? If "Failed", provide description (e.g., fine, course).				
150	Comments: Fine Is sample free of suspended solids? If "Failed", provide description (e.g., fine, course),			\Box	
160	Comments: Fine		1X		
170	Is sample foamless after gently shaking? If "Failed" describe foam color and location				red.
170	(e.g., 'on the surface' or 'in the sample'). Is sample devoid of an oil sheen? If "Failed", describe color and thickness (e.g. flecks.				
180	globs).		- Di		
190	Is sample free of other obvious indicators of pollution? If "Failed", describe.				

Completed: 6/17/2019 5:07:00 PM		
Report: Holly Wheeler		
7/1/2019 Signature / Name Date I confirm the information as recorded is true, accurate and complete	Signature / Name lete.	Date
CERTIFICATION S	STATEMENT	
"I certify under penalty of law that this document and all attachments accordance with a system designed to assure that qualified personnel Based on my inquiry of the person or persons who manage the system information, the information submitted is, to the best of my knowledg there are significant penalties for submitting false information, includ violations".	properly gathered and evaluated the n, or those persons directly responsible ge and belief, true, accurate, and com	information submitted. ble for gathering plete. I am aware that
(Signatory must meet definition in Section B.11.A, eg. FOD, Ops	Mgr, DESH Group Leader, EPC (Group Leader)
Print name and title: <u>Taunia Van Valkenburg</u> , <u>EPC-CP Group Le</u>	eader	
Signature: (See signature on file)	_Date:	

Work Order MSGP-63805

MSGP Monitoring Stations Printed 8/6/2019 - 9:12 AM

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Requested By: Banar, Alethea on

7/3/2019 5:48:00 PM

Target:

7/31/2019

Department: Utilities and Infrastructure

Priority/Type: / Inspection

Banar, Alethea

Procedure:

Taken By:

MSGP Quarterly Visual

Assessment (EPC-CP-

Form-1021.2)

Last PM: Project: 7/3/2019

Visual Assessments

6/1/19 (P-MSGP-5378)

Reason: MSGP Quarterly Visual Assessment

MSGP Program

♣ RG121.9

♣ TA-3-22 Power & Steam Plant

Monitored Outfall (009)

Substantially Identical Outfall (010)

₼ MSGP01001

Contact: Banar, Alethea **Phone:** 699-5836

Tasks					
#	Description	Meas.	No	N/A	Yes
The r	esult of this VA applies to associated SIOs as defined in the SWPPP, where applicable.				
Samp	ole information				
30	Document the monitoring Period (e.g., Apr-May) Comments: June/July		. 17	П	TV.
40	Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format). Comments: 07/02/2019 at 12:45 hours.		·	П	ſV
50	Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format). Comments: 07/02/2019 at 12:45 hours.		П		Te/
60	Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format). Comments: 07/03/2019 at 10:27 hours.		П	П	E.
70	Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line. Comments: Rain 0.24"		П		Œ.
80	Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason.				
Paran	neters				
110	Is sample colorless? If "Failed", describe. Comments: Light tan		124		П
120	Is sample oderless? If "Failed", provide description (e.g. musty, sewage, sulfur, sour solvent, petroleum/gas)				
130	Is sample clear? If "Failed", provide description (e.g., slightly cloudy, cloudy, opaque). Comments: Opaque		[X		_172_
140	Is sample free of floating solids? If "Failed", describe if raw or waste material(s) in the comments of this line.				
150	Is sample free of settled solids? If "Failed", provide description (e.g., fine, course). Comments: Fine and course	-	124		
160	Is sample free of suspended solids? If "Failed", provide description (e.g., fine, course). Comments: Fine		1×		
170	Is sample foamless after gently shaking? If "Failed" describe foam color and location (e.g., 'on the surface' or 'in the sample').				
180	Is sample devoid of an oil sheen? If "Failed", describe color and thickness (e.g. flecks, globs).				TV.
190	Is sample free of other obvious indicators of pollution? If "Failed", describe.				E

Labor Report

EPC-DO: 19-307

Attachment 1

11

Completed: 7/3/2019 10:27:00 AM		
Report: Holly Wheeler		
7/12/2019 Signature / Name Date I confirm the information as recorded is true, accurate and complete	Signature / Name	Date
CERTIFICATION STA	ATEMENT	
"I certify under penalty of law that this document and all attachments we accordance with a system designed to assure that qualified personnel probased on my inquiry of the person or persons who manage the system, of information, the information submitted is, to the best of my knowledge at there are significant penalties for submitting false information, including violations".	operly gathered and evaluated the or those persons directly responsibend belief, true, accurate, and com	information submitted. le for gathering plete. I am aware that
(Signatory must meet definition in Section B.11.A, eg. FOD, Ops Mg	gr, DESH Group Leader, EPC (Group Leader)
Print name and title: <u>Taunia Van Valkenburg, EPC-CP Group Lead</u>	er	<u></u> s
Signature: (See signature on file)	Date:	_

Work Order MSGP-63806

MSGP Monitoring Stations Printed 8/6/2019 - 9:07 AM

Maintenance Details

Requested By: Banar, Alethea on

7/3/2019 5:49:00 PM

Banar, Alethea

Procedure:

Taken By:

MSGP Quarterly Visual

Assessment (EPC-CP-

Form-1021.2)

Last PM: Project:

6/4/2019

Visual Assessments

6/1/19 (P-MSGP-5378)

Reason: MSGP Quarterly Visual Assessment

Target: 7/31/2019

Priority/Type: / Inspection

Department: Utilities and Infrastructure

MSGP Program

品 RG121.9

📥 TA-3-22 Power & Steam Plant

Monitored Outfall (009)

🤽 Substantially Identical Outfall (008)

♣ MSGP00801

Contact: Banar, Alethea **Phone:** 699-5836

Tasks						
#	Description	Meas.	No	N/A	Yes	
The re	sult of this VA applies to associated SIOs as defined in the SWPPP, where applicable.					
Sampl	e information					
30	Document the monitoring Period (e.g., Apr-May) Comments: June/July			_0_		
40	Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format). Comments: 07/02/2019 at 12:45 hours.		TTI.	Б	ſ€/	
50	Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format). Comments: 07/02/2019 at 12:45 hours.				rv	
60	Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format). Comments: 07/03/2019 at 10:44 hours.				ſV	
70	Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line. Comments: Rain 0.24"		П		1	
80	Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason.		П		IV.	
Param	eters					
110	Is sample colorless? If "Failed", describe.		1			
120	Is sample oderless? If "Failed", provide description (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas)				TV.	
130	Is sample clear? If "Failed", provide description (e.g., slightly cloudy, cloudy, opaque).					
140	Is sample free of floating solids? If "Failed", describe if raw or waste material(s) in the comments of this line.				V	
150	Is sample free of settled solids? If "Failed", provide description (e.g., fine, course). Comments: Course		1X			
160	Is sample free of suspended solids? If "Failed", provide description (e.g., fine, course),				T.	
170	Is sample foamless after gently shaking? If "Failed" describe foam color and location (e.g., on the surface or 'in the sample').			_ 🗔	TV_	
180	Is sample devoid of an oil sheen? If "Failed", describe color and thickness (e.g. flecks, globs).					
190	Is sample free of other obvious indicators of pollution? If "Failed", describe.		1		1	

Labor Report

Completed: 7/3/2019 10:44:00 AM

EPC-DO: 19-307

Report: Holly Wheeler			
Signature / Name I confirm the information as record	7/12/2019 Date ed is true, accurate and comple	Signature / Name te.	Date
	CERTIFICATION ST	TATEMENT	
"I certify under penalty of law that this accordance with a system designed to a Based on my inquiry of the person or p information, the information submitted here are significant penalties for submitted violations".	assure that qualified personnel processors who manage the system, is, to the best of my knowledge	operly gathered and evaluated the or those persons directly responsil and belief, true, accurate, and com	information submitted. ble for gathering uplete. I am aware that
(Signatory must meet definition in S	ection B.11.A, eg. FOD, Ops M	Igr, DESH Group Leader, EPC (Group Leader)
Print name and title: <u>Taunia Van V</u>	Valkenburg, EPC-CP Group Lea	der	
Signature: (See signature on file	2)	Date:	

Work Order MSGP-63815

MSGP Monitoring Stations Printed 8/6/2019 - 9:15 AM

) o di i o	etad: 7/12/2010 12:22:00 DM	Torget	7/21/2010	<u></u>	Б			
-	sted: 7/12/2019 12:23:00 PM lure: MSGP Quarterly Visual	Target:	7/31/2019 Normal / Inspection	■ MSGP 品 RG121	_			
1000	Assessment (EPC-CP-Form-		Utilities and Infrastructure	# TA-3-2		& Stean	n Plant	
A D	1021.2)			🏰 Monito				
Last P				Substa		ntical C	Outfall (0	011)
Projec	(P-MSGP-5378)			MSGP	01101			
Reaso	n: MSGP Quarterly Visual Assessn	nent		Contact: Phone:				
asks								
#	Description				Meas.	No	N/A	Yes
The re	sult of this VA applies to associat	ed SIOs as defi	ned in the SWPPP, where a	ipplicable.				
	e information		,					
20	Document the monitoring Period (e.g., Apr-May)						-4
30	Comments: June/July	go hogan in the "	Dooding!! field of this line ()	- ind		ş		
	Document the Date/Time Dischargemm/dd/yy hh:mm format).	ye began in the "	reading field of this line (us	sing				
40	Comments: 07/02/2019 at 12:45							
	Document the Date/time sample of	collected in the "F	Reading" field of this line (usi	ng				
50	mm/dd/yy hh:mm format). Comments: 07/02/19 at 12:45.							
	Document the Date/time sample v	risually assessed	in the "Reading" field of this	line				
	(using mm/dd/yy hh:mm format).		, todanig noid of till					
60	Comments: 07/03/2019 at 10:00							1
	Document the nature of discharge (in) in the "Reading" field of this lir		melt). Document the TOTAL	. amount				
70	Comments: Rain 0.24"							
on	Sample collected in first 30 minute	es of discharge?	If "Failed" or unknown, provi	de a		_	_	
80	reason.							
Param								
110	Is sample colorless? If "Failed", de					J.		
120	Is sample oderless? If "Failed", prosolvent, petroleum/gas)	ovide description	(e.g. musty, sewage, sulfur,	sour,		100		121
130	Is sample clear? If "Failed", provid	le description (e.	a slightly doudy cloudy on	anue)		#		_ <u> V </u>
. 00	Is sample clear? If I alled provides? If					-1/		
	comments of this line.							
140	Comments: Pollen and vegetati							1
150	Is sample free of settled solids? If							
160	Is sample free of suspended solid							
170	Is sample foamless after gently sh (e.g.,'on the surface' or 'in the sam	ple').					1	1
180	Is sample devoid of an oil sheen? globs).	If "Failed", descr	ibe color and thickness (e.g.	flecks,				12/
190	Is sample free of other obvious inc	licators of pollution	on? If "Failed" describe					TE!
			on. If I diled , describe			- 1		
ahor [[]	Report							
ADOI I	Coport							
Compl	eted: 7/3/2019 10:00:00 AM							
	-							
report	: Holly Wheeler PC-DO: 19-307		Attachment 1				15	

Attachment 1

Hollywhenh	7/12/2019		11
Signature / Name I confirm the information as recorde	Date	Signature / Name	Date
	CERTIFICATION S	TATEMENT	
"I certify under penalty of law that this caccordance with a system designed to as Based on my inquiry of the person or peinformation, the information submitted it there are significant penalties for submit violations".	ssure that qualified personnel persons who manage the system, is, to the best of my knowledge	roperly gathered and evaluated the or those persons directly responsibe and belief, true, accurate, and com	information submitted. ble for gathering uplete. I am aware that
(Signatory must meet definition in Se	ection B.11.A, eg. FOD, Ops N	/lgr, DESH Group Leader, EPC (Group Leader)
Print name and title: Taunia Van Va	alkenburg, EPC-CP Group Lea	der	 -
Signature: (See signature on file))	_Date:	



Environmental Protection & Compliance Division

Compliance Programs Group

To: Jillian Burgin, DESH-UIS, B274

Thru: Terrill Lemke, EPC-DO, K490

From: Holly Wheeler, EPC-CP, K490

Phone: 505-667-1312 *Symbol:* EPC-DO: 19-376

Date: NOV 2 6 2019

Subject: National Pollutant Discharge Elimination System (NPDES) Permit Tracking No.

NMR050013, Multi-Sector General Permit (MSGP) Quarterly Visual

Assessment (QVA) Forms for August and September of 2019 for the TA-3-22

Power and Steam Plant

Please find attached completed MSGP QVA forms documenting visual assessments performed during the third quarter of monitoring at the TA-3-22 Power and Steam Plant. Per Parts 3.2.2 and 5.5 of the 2015 MSGP, the signed certification statement and associated QVA forms shall be incorporated into your MSGP Stormwater Pollution Prevention Plan (SWPPP).

Part 3.2.1 of the 2015 MSGP requires the visual assessment of stormwater discharge samples collected from each outfall once each quarter for the entire permit term. Part 3.2.3 allows facilities that are located in an area with a semi-arid climate and/or in an area where freezing conditions exist for an extended period to distribute the quarterly visual assessments during seasons when precipitation runoff occurs. Accordingly, Triad National Security, LLC (Triad) has designated the following MSGP monitoring quarters.

Quarter 1: April – May Quarter 2: June – July

Ouarter 3: August – September Ouarter 4: October - November

The attached QVA forms document the following information required by Part 3.2.2 of the 2015 MSGP and were completed by Environmental Compliance Programs (EPC-CP) personnel.

- Sample location;
- Sample collection date and time, and visual assessment date and time for each sample;
- Personnel collecting the sample and performing the visual assessment, and their signatures;
- Nature of the discharge (i.e., runoff or snowmelt);
- Results of observations of the stormwater discharge;
- Probable sources of any observed stormwater contamination (if applicable);
- If applicable, why it was not possible to take a sample within the first 30 minutes of the storm event.

The EPC-CP Group Leader has signed the certification statement to meet the duly authorized signatory requirements for the QVAs contained in Attachment 1.



I certify under penalty of law that this document and all attachments 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.

Taunia Van Valkenburg, EPC-CP Group Leader

Los Alamos National Laboratory

Manager Signature

11 25 19

Please contact Holly Wheeler at 667-1312 (hbenson@lanl.gov) if you have questions regarding the QVA documentation. Thank you for your assistance in meeting the requirements of the Laboratory's NPDES 2015 MSGP.

Facility Name	Sampling Station	Work Order #
TA-3-22 Power & Steam Plant	MSGP00501	MSGP-63897
TA-3-22 Power & Steam Plant	MSGP00901	MSGP-63898
TA-3-22 Power & Steam Plant	MSGP00601	MSGP-63904
TA-3-22 Power & Steam Plant	MSGP01101	MSGP-63917
TA-3-22 Power & Steam Plant	MSGP01001	MSGP-63918
TA-3-22 Power & Steam Plant	MSGP00801	MSGP-63940

TWL/HLW:jdm

Attachment(s): Attachment 1 Quarterly Visual Assessment Forms, Third Quarter, 2019
Monitoring Year



EPC-DO: 19-376 Jillian Burgin

Copy: Michael Hazen, ALDESHQSS, mhazen@lanl.gov
William Mairson, ALDESHQSS, wrmairson@lanl.gov
Enrique Torres, EPC-DO, etorres@lanl.gov
Jennifer Payne, EPC-DO, jpayne@lanl.gov
Russell Stone, DESH-UIS, rdstone@lanl.gov
Taunia Van Valkenburg, EPC-CP, tauniav@lanl.gov
Terrill Lemke, EPC-CP, tlemke@lanl.gov
epccorresondence@lanl.gov
adesh-records@lanl.gov



ATTACHMENT 1

Quarterly Visual Assessment Forms, Third Quarter, 2019 Monitoring Year

EPC-DO: 19-376

Date: NOV 2 6 2019

Work Order MSGP-63897

MSGP Monitoring Stations

Reque	sted By:	Banar, Alethea on 8/8/2019 3:04:00 PM	Target: Priority/Type:	9/30/2019 / Inspection	벌 MSGP 品 RG121	_					
Taken By: Procedure:		Banar, Alethea Department: Utilities and Infrastructure MSGP Quarterly Visual Mo			📥 TA-3-2	-22 Power & Steam Plant itored Outfall (005)					
ast P		8/8/2019			C44- [Deve ev. Alle 45					
rojec	t:	Visual Assessments 8/1/19 (P-MSGP-5390)		Phone: 6			Banar, Alethea 699-5836				
Reaso	n: MSG	Quarterly Visual Assessm	ent								
asks											
#	Descri	ption				Meas.	No	N/A	Yes		
he re	sult of th	is VA applies to associat	ed SIOs as defin	ed in the SWPPP, where a	pplicable.						
	e inform										
30		ent the monitoring Period (e.g., Apr-May)			aug-sept		3	10		
.0	Docum	ent the Date/Time Discharg		leading" field of this line (us	ing mm/dd/yy	8/7/19 14·11		П	1		
0		iment the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy m format),		8/7/19 1 4 :11							
0	mm/dd	ment the Date/time sample visually assessed in the "Reading" field of this line (using ld/yy hh:mm format).		8/8/19 14:21	IJ.		0				
0	_the "Re	ent the nature of discharge eading" field of this line.				_rain .71	П				
30	Sample	e collected in first 30 minute	es of discharge? If	"Failed" or unknown, provi	de a reason.						
aram	eters										
10	Is sam	ole colorless? If "Failed", de	escribe.			brown	TX.				
20		ole oderless? If "Failed", pro um/gas)	ovide description (e.g. musty, sewage, sulfur,	sour, solvent,				IV.		
30		ple clear? If "Failed", provid				opaque	_K	\Box			
40		ole free of floating solids? It ents of this line.	"Failed", describe	e if raw or waste material(s)	in the				IV.		
50		ole free of settled solids? If				fine	<u> </u>	_П_			
60		ole free of suspended solid									
70	the sur	ole foamless after gently sh face' or 'in the sample').							1		
80	globs).	ole devoid of an oil sheen?			flecks,				V		
90	Is samp	ole free of other obvious inc	licators of pollution	1? If "Failed", describe.							
	Report										
ıbor l		B/2019 2:21:00 PM									
	eted: 8/8										

I confirm the information as recorded is true, accurate and complete.

8/8/2019

Date

Attachment 1

Signature / Name

Signature / Name

Date

CERTIFICATION STATEMENT

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

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

Print name and tit	tle: Taunia Van Valkenbur	g, EPC-CP Group Leader	
Signature:	(See signature on file)	Date:_	

2

Work Order MSGP-63898

MSGP Monitoring Stations Printed 8/21/2019 - 9:28 AM

8/9/2019 Visual Assessments 8/1/19 (P-MSGP-5390) SGP Quarterly Visual Assessment scription	Wheeler, Ho	olly		
SGP Quarterly Visual Assessment				
scrintion				
scrintion				
our priori	Meas.	No	N/A	Yes
of this VA applies to associated SIOs as defined in the SWPPP, where applicable.				
ormation				
cument the monitoring Period (e.g., Apr-May)	aug-sept	П		1
cument the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy mm format).	8/8/19 17:40	Б		
cument the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy mm format).	8/8/19 17:40			10
cument the Date/time sample visually assessed in the "Reading" field of this line (using n/dd/yy hh:mm format).	8/9/19 8:37			1
he "Reading" field of this line.	rain 0.03 inch		П	1
mple collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason.		工		
sample colorless? If "Failed", describe.	brown			
		IX.	_П_	
sample oderless? If "Failed", provide description (e.g. musty, sewage, sulfur, sour, solvent, roleum/gas)	musty	[<u>*</u>	_T_	
roleum/gas) sample clear? If "Failed", provide description (e.g., slightly cloudy, cloudy, opaque).	musty slightly cloudy		_ _ _	
sample clear? If "Failed", provide description (e.g., slightly cloudy, cloudy, opaque). sample free of floating solids? If "Failed", describe if raw or waste material(s) in the nments of this line.	slightly		_ _ _ _	
sample clear? If "Failed", provide description (e.g., slightly cloudy, cloudy, opaque). sample free of floating solids? If "Failed", describe if raw or waste material(s) in the nments of this line. sample free of settled solids? If "Failed", provide description (e.g., fine, course).	slightly cloudy		 	
sample clear? If "Failed", provide description (e.g., slightly cloudy, cloudy, opaque). sample free of floating solids? If "Failed", describe if raw or waste material(s) in the nments of this line. sample free of settled solids? If "Failed", provide description (e.g., fine, course). sample free of suspended solids? If "Failed", provide description (e.g., fine, course).	slightly cloudy			
sample clear? If "Failed", provide description (e.g., slightly cloudy, cloudy, opaque). sample free of floating solids? If "Failed", describe if raw or waste material(s) in the nments of this line. sample free of settled solids? If "Failed", provide description (e.g., fine, course). sample free of suspended solids? If "Failed", provide description (e.g., fine, course). sample foamless after gently shaking? If "Failed" describe foam color and location	slightly cloudy vegetation			
sample clear? If "Failed", provide description (e.g., slightly cloudy, cloudy, opaque). sample free of floating solids? If "Failed", describe if raw or waste material(s) in the nments of this line. sample free of settled solids? If "Failed", provide description (e.g., fine, course). sample free of suspended solids? If "Failed", provide description (e.g., fine, course).	slightly cloudy vegetation			
cr	nument the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy nm format). The properties of the pate/time sample collected in the "Reading" field of this line (using mm/dd/yy nm format). The pate/time sample visually assessed in the "Reading" field of this line (using //dd/yy hh:mm format). The pate/time sample visually assessed in the "Reading" field of this line (using //dd/yy hh:mm format). The pate/time sample visually assessed in the "Reading" field of this line (using //dd/yy hh:mm format). The pate/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format). The pate/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy nm format). The pate/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy nm format). The pate/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy nm format). The pate/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy nm format). The pate/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy nm format).	aug-sept aument the monitoring Period (e.g., Apr-May) aug-sept aument the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy 17:40 aument the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy 17:40 aument the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy 17:40 aument the Date/time sample visually assessed in the "Reading" field of this line (using 8/9/19 8:37 aument the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) 18: "Reading" field of this line. apple collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason.	sument the monitoring Period (e.g., Apr-May) sument the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy 17:40 sument the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy 17:40 sument the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy 17:40 sument the Date/time sample visually assessed in the "Reading" field of this line (using 17:40 sument the Date/time sample visually assessed in the "Reading" field of this line (using 17:40 sument the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) 17:40 sument the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) 17:40 sument the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) 17:40 sument the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) 17:40 sument the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) 17:40 sument the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) 17:40 sument the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) 17:40 sument the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) 17:40 sument the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) 17:40 sument the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) 17:40 sument the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) 17:40 sument the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) 17:40 sument the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) 17:40 sument the nature of discharge (e.g., rain, snowmelt).	sument the monitoring Period (e.g., Apr-May) sument the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy 17:40

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 m	ust meet definition in Section B.11.A, eg	. FOD, Ops Mgr, DESH Group Leader, EPC Group Leader	r)
Print name an	d title: Taunia Van Valkenburg, EPC-	CP Group Leader	
Signature:	(See signature on file)	Date:	

Report: Holly Wheeler

Work Order MSGP-63904

MSGP Monitoring Stations Printed 8/21/2019 - 9:38 AM

ainte	enance Details		'	Time C	3/21/201	J - J,5		
Taken Proced Last P	MSGP Quarterly Visual Assessment (EPC-CP- Form-1021.2) M: 8/6/2019 t: Visual Assessments 8/1/19 (P-MSGP-5390)	8/12/2019 12:46:00 PM Banar, Alethea MSGP Quarterly Visual Assessment (EPC-CP- Form-1021.2) 8/6/2019 Visual Assessments		MSGP Program RG121.9 TA-3-22 Power & Steam Plant Monitored Outfall (005) Substantially Identical Outfall (006) MSGP00601 Contact: Banar, Alethea Phone: 699-5836				
isks								
#	Description		Meas.	No	N/A	Yes		
he re	esult of this VA applies to associ	ated SIOs as defined in the SWPPP, where a	pplicable.					
-	le information							
0	Document the Monitoring Period		August/September					
0	(using mm/dd/yy hh:mm format	arge began in the "Reading" field of this line I.	08/05/19 @ 03:10			1		
0	Document the Date/time sample (using mm/dd/yy hh:mm format)	collected in the "Reading" field of this line	09/05/10 @ 03:10	_				
<u> </u>		e visually assessed in the "Reading" field of this	08/05/19 @ 03:10			100		
0	line (using mm/dd/yy hh:mm for		08/06/19 @ 15:02		n)	1		
0	amount (in) in the "Reading" fiel	ge (e.g., rain, snowmelt). Document the TOTAL d of this line.	Rain 0.02"			1		
30	Sample collected in first 30 min provide a reason.	utes of discharge? If "Failed" or unknown,				1		
aram	eters							
10	Is sample colorless? If "Failed",					1		
	Is sample oderless? If "Failed".	provide description (e.g. musty, sewage, sulfur,						
20	sour, solvent, petroleum/gas)			П		1		
	sour, solvent, petroleum/gas)	ride description (e.g., slightly cloudy, cloudy,				V		
30	sour, solvent, petroleum/gas) Is sample clear? If "Failed", provopaque). Is sample free of floating solids? in the comments of this line.							
30 40	sour, solvent, petroleum/gas) Is sample clear? If "Failed", provopaque). Is sample free of floating solids? in the comments of this line. Comments: A small bit of veg	vide description (e.g., slightly cloudy, cloudy,	Fine					
30 40 50	sour, solvent, petroleum/gas) Is sample clear? If "Failed", provopaque). Is sample free of floating solids? in the comments of this line. Comments: A small bit of veg Is sample free of settled solids? course). Is sample free of suspended solicourse).	ride description (e.g., slightly cloudy, cloudy, If "Failed", describe if raw or waste material(s) etation was floating on top of sample. If "Failed", provide description (e.g., fine, ids? If "Failed", provide description (e.g., fine,	,					
30 40 50	sour, solvent, petroleum/gas) Is sample clear? If "Failed", provopaque). Is sample free of floating solids? in the comments of this line. Comments: A small bit of veg Is sample free of settled solids? course). Is sample free of suspended sol course). Is sample foamless after gently location (e.g., on the surface' or	vide description (e.g., slightly cloudy, cloudy, If "Failed", describe if raw or waste material(s) etation was floating on top of sample. If "Failed", provide description (e.g., fine, ids? If "Failed", provide description (e.g., fine, shaking? If "Failed" describe foam color and 'in the sample').	Fine					
20 30 40 50 60 70	sour, solvent, petroleum/gas) Is sample clear? If "Failed", provopaque). Is sample free of floating solids? in the comments of this line. Comments: A small bit of veg Is sample free of settled solids? course). Is sample free of suspended sol course). Is sample foamless after gently location (e.g., on the surface' or	vide description (e.g., slightly cloudy, cloudy, If "Failed", describe if raw or waste material(s) etation was floating on top of sample. If "Failed", provide description (e.g., fine, ids? If "Failed", provide description (e.g., fine, shaking? If "Failed" describe foam color and	Fine					

EPC-DO: 19-376 Attachment 1 5

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: Taunia Van Valkenburg, EPC-CP Group Leader

Signature: (See signature on file) Date:

Work Order MSGP-63917

MSGP Monitoring Stations Printed 8/21/2019 - 9:38 AM

Requested By: Wheeler, Holly on 8/19/2019 12:53:00 PM Taken By: Wheeler, Holly Procedure: MSGP Quarterly Visual Assessment (EPC-CP-Form-1021,2) Last PM: 8/7/2019 Project: Visual Assessments 8/1/19 (P-MSGP-5390) Reason: MSGP Quarterly Visual Assessments		8/19/2019 12:53:00 PM Wheeler, Holly MSGP Quarterly Visual Assessment (EPC-CP-	Monitored Outfall Substantially Ident						
		8/7/2019 Visual Assessments 8/1/19 (P-MSGP-5390)	ent		MSGP01101 Contact: Wheeler, Ho Phone: 667-1312	olly			
asks									
#	Descri	ption			Meas.	No	N/A	Yes	
Sample 30	informa Docum	ation ent the monitoring Period (e	.g., Apr-May)	d in the SWPPP, where appli	August/September			<u>v</u>	
10	mm/dd/	yy hh:mm format).		eading" field of this line (using	08/07/19 @ 13:10	<u></u>	_П_	ľ	
50	Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format).				08/07/19 @ 13:10	<u> </u>	П	1	
0	Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format).			08/07/19 @ 17:30	_==		1		
	Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line.			Rain 0.71 inch					
30	Sample reason.		of discharge? If	"Failed" or unknown, provide a		П	П		
aramet	ters								
10	ls samp	ele colorless? If "Failed", des	cribe.						
		ole oderless? If "Failed", pro- petroleum/gas)	vide description (e.g. musty, sewage, sulfur, sou	r,	П	П	1	
30	Is samp	le clear? If "Failed", provide	description (e.g.	, slightly cloudy, cloudy, opaque	e).	_ Fu		V	
		le free of floating solids? If ' nts of this line.	'Failed", describe	if raw or waste material(s) in the	ne	-	П	12/	
				escription (e.g., fine, course)	Fine	126			
		le free of suspended solids'						TV.	
	ls samp		king? If "Failed" o	describe foam color and locatio	n			W	
	Is samp	le devoid of an oil sheen? If	"Failed", describ	e color and thickness (e.g. flec	ks,			TV	
	ls samp	le free of other obvious indi	cators of pollution	? If "Failed", describe,				1	
ibor Re Complet	ed: <u>8/7</u>	/2019 5:30:00 PM							

I confirm the information as recorded is true, accurate and complete.

Signature / Name

Signature / Name

Date

Date

"I certify under penalty of law that this document and all attachments 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".

__Date:___

Signature: (See signature on file)

Work Order MSGP-63918

MSGP Monitoring Stations Printed 8/21/2019 - 9:30 AM

Mainte	enance l	Details				ı	Printed 8	3/21/201	9 - 9:30 Al				
Taken Proced Last P Projec	Requested By: Wheeler, Holly on 8/19/2019 1:12:00 PM Priority/Type: / Inspection Taken By: Wheeler, Holly Department: Utilities and Infrastructure						Priority/Type: / Inspection Department: Utilities and Infrastructure Ty Visual EPC-CP- Monitored Outfall (009) Substantially Identical Outfall (010) MSGP01001 Contact: Wheeler, Holly Phone: 667-1312						
Tasks													
# The re	Descri		d SIOs as defin	ed in the SWPPP, where ap	pplicable.	Meas.	No	N/A	Yes				
	le informa						Г	п	īv.				
40	Docum hh:mm		e began in the "R	teading" field of this line (usi	ng mm/dd/yy				16/				
50	Docum hh:mm		llected in the "Re	eading" field of this line (usin	g mm/dd/yy			п.	16/				
60	mm/dd/	ent the Date/time sample vi /yy hh:mm format). ents: 08/12/19 @ 12:50	sually assessed i	n the "Reading" field of this l	ine (using		П		IV.				
70	the "Re	ent the nature of discharge ading" field of this line. ents: Rain 0.13"	(e.g., rain, snown	nelt). Document the TOTAL	amount (in) in				ī				
80	Sample	collected in first 30 minutes	of discharge? If	"Failed" or unknown, provid	e a reason.				W				
Param	ls samp	ole colorless? If "Failed", des	scribe.										
110	ls samp petrolet	ım/gas)		e.g. musty, sewage, sulfur, s					V				
130		ole clear? If "Failed", provide e <mark>nts: Opaque</mark>	description (e.g.	, slightly cloudy, cloudy, opa	que).		[X	п	П				
140	comme	nts of this line.		if raw or waste material(s) i					V.				
150	Comme	ents: Fine and Course		lescription (e.g., fine, course			[X		Г				
160	Comme	ents: Fine		ide description (e,g., fine, co			[X						
170	the surf	ace' or 'in the sample').		describe foam color and loca									
180	globs).			e color and thickness (e.g. f	lecks,								
190	ls samp	le free of other obvious indi	cators of pollution	n? If "Failed", describe.					V				

Labor Report

Completed: 8/12/2019 12:50:00 PM

Report: Holly Wheeler			
Holy Long Signature / Name	8/19/2019 Date	Signature / Name	Date
I confirm the information as record	led is true, accurate and comple	te.	
	CERTIFICATION	STATEMENT	
"I certify under penalty of law that this with a system designed to assure that a inquiry of the person or persons who reinformation submitted is, to the best of penalties for submitting false information."	qualified personnel properly gath nanage the system, or those perso f my knowledge and belief, true,	ered and evaluated the information su ons directly responsible for gathering accurate, and complete. I am aware the	bmitted. Based on my information, the nat there are significant
(Signatory must meet definition in S	Section B.11.A, eg. FOD, Ops M	lgr, DESH Group Leader, EPC Gro	oup Leader)
Print name and title: Taunia Van	Valkenburg, EPC-CP Group Lea	der	21
Signature:(See signature on fil	e)	Date:	-0

Maintenance Details

Work Order MSGP-63940

MSGP Monitoring Stations Printed 10/3/2019 - 5:55 PM

Requested By: Wheeler, Holly on 9/12/2019 10:46:00 AM Taken By: Wheeler, Holly Procedure: MSGP Quarterly Visual Assessment (EPC-CP- Form-1021.2)		Priority/Type:	9/30/2019 / Inspection Utilities and Infrastructure	MSGP Program RG121.9 TA-3-22 Power & S Monitored Outfall (C Substantially Identic MSGP00801	09)		3)
Last PM:	9/3/2019			LE MOOI GOOT			
Project:	Visual Assessments 8/1/19 (P-MSGP-5390)			Contact: Wheeler, Holl Phone: 667-1312	ly		
Reason : M	ISGP Quarterly Visual Assessment			Frione. 007-1312			
asks							
# De	escription			Meas.	No	N/A	Yes
The result of	of this VA applies to associated S	SIOs as define	d in the SWPPP, where applica	ble.			
Sample info 30 Do	ormation cument the monitoring Period (e.g.	Apr-May)		August/September	_		77
Do	cument the Date/Time Discharge b		ading" field of this line (using		_0_		
Do	n/dd/yy hh:mm format). cument the Date/time sample colle	cted in the "Rea	ading" field of this line (using	09/01/19 13:20			
	n/dd/yy hh:mm format). cument the Date/time sample visua	ally assessed in	the "Reading" field of this line	9/01/19 13:20		5	
<u>(us</u>	sing mm/dd/yy hh:mm format). cument the nature of discharge (e.			09/03/19 16:44	П		V
'0 (in)) in the "Reading" field of this line.			Rain 0,67"	Г		V
	mple collected in first 30 minutes o ison.	f discharge? If "	Failed" or unknown, provide a		П		V
Parameters	i						
10 ls s	sample colorless? If "Failed", descr	ibe.				П	
	sample oderless? If "Failed", provid vent, petroleum/gas)	e description (e	.g. musty, sewage, sulfur, sour,				1
30 ls s	sample clear? If "Failed", provide de	escription (e.g.,	slightly cloudy, cloudy, opaque).				1
ls s	sample free of floating solids? If "Fannents of this line.					Б.	14
50 ls s	sample free of settled solids? If "Fai	iled", provide de	scription (e.g., fine, course).	Fine	X	F	Г
60 ls s	sample free of suspended solids? If	"Failed", provid	e description (e.g., fine, course)				1
70 (e.g	sample foamless after gently shakir g.,'on the surface' or 'in the sample'	ig? If "Failed" de).	escribe foam color and location				V
ls s glob	ample devoid of an oil sheen? If "F bs).	ailed", describe	color and thickness (e.g. flecks,			П	1
90 ls s	ample free of other obvious indicat	ors of pollution?	If "Failed", describe.		П		1
bor Repo completed: Report: Hol	<u>9/3/2019 4:44:00 PM</u>						
	Signature / Name e information as recorded is true	9/17/2019 Date accurate and	Signature complete.	/ Name		Date	

"I certify under penalty of law that this document and all attachments 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".



memorandum

Environmental Protection & Compliance Division

Compliance Programs Group

To: Russell Stone, DESH-UIS, K760

Thru: Terrill Lemke, EPC-DO, K490

From: Holly Wheeler, EPC-CP, K490 VOW

Phone: 505-667-1312 *Symbol:* EPC-DO: 19-454

Date: JAN 0 8 2020

Subject: National Pollutant Discharge Elimination System (NPDES) Permit Tracking No.

NMR050013, Multi-Sector General Permit (MSGP) Quarterly Visual

Assessment (QVA) Forms for October and November of 2019 for the TA-3-22

Power and Steam Plant

Please find attached completed MSGP QVA forms documenting visual assessments performed during the fourth quarter of monitoring at the TA-3-22 Power and Steam Plant. Per Parts 3.2.2 and 5.5 of the 2015 MSGP, the signed certification statement and associated QVA forms shall be incorporated into your MSGP Stormwater Pollution Prevention Plan (SWPPP).

Part 3.2.1 of the 2015 MSGP requires the visual assessment of stormwater discharge samples collected from each outfall once each quarter for the entire permit term. Part 3.2.3 allows facilities that are located in an area with a semi-arid climate and/or in an area where freezing conditions exist for an extended period to distribute the quarterly visual assessments during seasons when precipitation runoff occurs. Accordingly, Triad National Security, LLC (Triad) has designated the following MSGP monitoring quarters.

Quarter 1: April – May Quarter 2: June – July

Quarter 3: August – September Quarter 4: October - November

The attached QVA forms document the following information required by Part 3.2.2 of the 2015 MSGP and were completed by Environmental Compliance Programs (EPC-CP) personnel.

- Sample location;
- Sample collection date and time, and visual assessment date and time for each sample;
- Personnel collecting the sample and performing the visual assessment, and their signatures;
- Nature of the discharge (i.e., runoff or snowmelt);
- Results of observations of the stormwater discharge;
- Probable sources of any observed stormwater contamination (if applicable);
- If applicable, why it was not possible to take a sample within the first 30 minutes of the storm event.

The EPC-CP Group Leader has signed the certification statement to meet the duly authorized signatory requirements for the QVAs contained in Attachment 1.



I certify under penalty of law that this document and all attachments 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.

Taunia Van Valkenburg, EPC-CP Group Leader

Los Alamos National Laboratory

Manager Signature

1 7 2000 Date

Please contact Holly Wheeler at 667-1312 (hbenson@lanl.gov) if you have questions regarding the QVA documentation. Thank you for your assistance in meeting the requirements of the Laboratory's NPDES 2015 MSGP.

Facility Name	Sampling Station	Work Order#	
TA-3-22 Power & Steam Plant	MSGP01001	MSGP-63619	
TA-3-22 Power & Steam Plant	MSGP00601	MSGP-63979	
TA-3-22 Power & Steam Plant	MSGP00901	MSGP-63998	
TA-3-22 Power & Steam Plant	MSGP00501	MSGP-63999	
TA-3-22 Power & Steam Plant	MSGP00801	MSGP-64018	
TA-3-22 Power & Steam Plant	MSGP01101	MSGP-64019	

TWL/HLW:jdm

Attachment(s): Attachment 1 Quarterly Visual Assessment Forms, Fourth Quarter, 2019 Monitoring Year

Copy: Michael Hazen, ALDESHQSS, mhazen@lanl.gov

William Mairson, ALDESHQSS, wrmairson@lanl.gov

Enrique Torres, EWP, <u>etorres@lanl.gov</u> Jennifer Payne, EPC-DO, <u>jpayne@lanl.gov</u>

Taunia Van Valkenburg, EPC-CP, tauniav@lanl.gov

Terrill Lemke, EPC-CP, tlemke@lanl.gov

epccorresondence@lanl.gov adesh-records@lanl.gov



ATTACHMENT 1

Quarterly Visual Assessment Forms, Fourth Quarter, 2019 Monitoring Year

EPC-DO: 19-454

Date:	JAN 0 8 2020	
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Maintenance Details

Work Order MSGP-63619

MSGP Monitoring Stations Printed 12/5/2019 - 8:58 AM

	Substantially ident			(009)		10)	
Reason: 1	MSGP Quarterly Visual Assessm	ent	ä	Contact: Phone:			
asks							
# D	escription			Meas.	No	N/A	Yes
The result	of this VA applies to associate	d SIOs as defir	ed in the SWPPP, where ap	plicable.			
	ocument the monitoring Period (e			October/November		П_	1
m C	ocument the Date/Time Discharg m/dd/yy hh:mm format). omments: 11/21/2019 10:45 rec G121.9 for the winter.		-	_		_п_	W.
m C c 50 N :	ocument the Date/time sample com/dd/yy hh:mm format). omments: 11/21/2019 10:45 at 138 for winter.	「A-6 met tower.	RG121.9 was shut down by	•	Г		TV.
<u> 30 lin</u>	ocument the Date/time sample vi le (using mm/dd/yy hh:mm forma	t),		11/21/2019 16:45	П		V
70 <u>ar</u>	ocument the nature of discharge nount (in) in the "Reading" field o	f this line.		Snowmelt 0.34"	_⊏_		N/
	ample collected in first 30 minute: reason.	s of discharge? I	f "Failed" or unknown, provide	e 	_⊏_	工	V
Parameter	s						
	sample colorless? If "Failed", de-						1
20 so	sample oderless? If "Failed", pro ur, solvent, petroleum/gas)						V
30 <u>op</u>	sample clear? If "Failed", provide aque).						V
	sample free of floating solids? If ecomments of this line.	"Failed", describ	e if raw or waste material(s) ir	1			TV
50 Is	sample free of settled solids? If "	Failed", provide	description (e.g., fine, course). Fine	1X		
	sample free of suspended solids urse).	? If "Failed", pro	vide description (e.g., fine,				N.
70 loc	sample foamless after gently sha cation (e.g.,'on the surface' or 'in	the sample').			П		V
	sample devoid of an oil sheen? I cks, globs).	f "Failed", descri	be color and thickness (e.g.				1
	sample free of other obvious indi	cators of pollution	n? If "Failed", describe.		П		1
abor Rep	ort						
Completed	: 11/21/2019 4:45:00 PM						
Report: Ho	olly Wheeler						
EDO	DO: 19-454	12/3/2019	Attachment 1			-	

Signature / Name I confirm the information as recorded	Date is true, accurate and comple	Signature / Name	Date
	CERTIFICATION	STATEMENT	
"I certify under penalty of law that this do with a system designed to assure that qual inquiry of the person or persons who maniformation submitted is, to the best of my penalties for submitting false information,	ified personnel properly gath age the system, or those pers y knowledge and belief, true,	hered and evaluated the information su sons directly responsible for gathering , accurate, and complete. I am aware th	bmitted. Based on my information, the lat there are significant
(Signatory must meet definition in Sect	tion B.11.A, eg. FOD, Ops I	Mgr, DESH Group Leader, EPC Gro	oup Leader)
Print name and title: <u>Taunia Van Vall</u>	kenburg, EPC-CP Group Lea	ader	

Signature: (See signature on file) Date:

EPC-DO: 19-454 Attachment 1 2

Maintenance Details

Requested: 10/3/2019 4:23:00 PM

Work Order MSGP-63979

MSGP Monitoring Stations Printed 10/28/2019 - 2:49 PM

	: 10/3/2019 4:23:00 PM : MSGP Quarterly Visual Assessment (EPC-CP-Form- 1021.2) 8/6/2019 Visual Assessments 10/1/19 (P-MSGP-5407)	Target: Priority/Type: Department:	11/30/2019 / Inspection Utilities and Infrastructure	MSGP Program RG121.9 TA-3-22 Power & Steam Plant Monitored Outfall (005) Substantially Identical Outfall (00 MSGP00601				06)
Reason: N	//SGP Quarterly Visual Assessm	ent		Contac Phone:				
asks								
# D	escription				Meas.	No	N/A	Yes
The result	of this VA applies to associate	ed SIOs as defir	ned in the SWPPP, where a	pplicable				
Sample int	formation ocument the monitoring Period (e	a Anr May)			Oct/Nov	_	_	N.
D	ocument the Date/Time Discharg		Reading" field of this line (us	ing	10/04/19 @	-5		
	m/dd/yy hh:mm format).	allootod in the UC	localinal field of this line (usin		03:30		ŪL,	
	ocument the Date/time sample co m/dd/yy hh:mm format)	ollected in the R	teading field of this line (using	1g 	10/04/19 @ 03:30	П		V
	ocument the Date/time sample vi sing mm/dd/yy hh:mm format).	sually assessed	in the "Reading" field of this	line	10/04/19 @ 10:51		_	1
	ocument the nature of discharge i) in the "Reading" field of this lin		melt). Document the TOTAL	amount	Rain 0.49"			[V
Sa	ample collected in first 30 minute ason.		If "Failed" or unknown, provid	de a	TRAIN 0.43			[V
Parameter	· · · · · · · · · · · · · · · · · · ·							
	sample colorless? If "Failed", de	scribe.			Dark brown	134	٠П	П
	sample oderless? If "Failed", pro lvent, petroleum/gas)	vide description	(e.g. musty, sewage, sulfur,	sour,		П	П.	10
	sample clear? If "Failed", provide				Opaque	X		
	sample free of floating solids? If mments of this line.	"Failed", describ	e if raw or waste material(s)	in the		П	П	12
	sample free of settled solids? If '	'Failed", provide	description (e.g., fine, course	e).	Fine	×		
60 Is	sample free of suspended solids	? If "Failed", pro	vide description (e.g., fine, c	ourse).	Fine	124		
	sample foamless after gently sha g _{-r} 'on the surface' or 'in the sam		describe foam color and loc	ation		<u></u>	_П	1
	sample devoid of an oil sheen? I	f "Failed", descri	ibe color and thickness (e.g.	flecks,		П	П.	1
190 ls	sample free of other obvious ind	icators of pollution	on? If "Failed", describe.			П		1
	ort: 10/4/2019 10:51:00 AM 1/10/2019 - 118432: Holly Wheeld							
-	Signature / Name	10/10/2019 Date		re / Name			Date	
	e information as recorded is to	rue, accurate ar						
EPC-	DO: 19-454		Attachment 1				3	

11/30/2019

Target:

"I certify under penalty of law that this document and all attachments 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: <u>Taunia Van Valkenburg, EPC-C</u>	CP Group Leader
Signature: (See signature on file)	Date:

Maintenance Details

Work Order MSGP-63998

MSGP Monitoring Stations Printed 10/28/2019 - 2:46 PM

		: 10/7/2019 10:14:00 AM : MSGP Quarterly Visual Assessment (EPC-CP-Form- 1021.2)		11/30/2019 Normal / Inspection Utilities and Infrastructure	品 RG ♣ TA∹	GP Program 121.9 3-22 Power 8 nitored Outfal		n Plant	
ast P	PM:	10/4/2019				GP00901	1 (009)		
rojed	et:	Visual Assessments 10/1/19 (P-MSGP-5407)							
leaso	on: N	/ISGP Quarterly Visual Assessm	ent		Contac Phone:				
asks									
#	De	escription				Meas.	No	N/A	Yes
The re	esult	of this VA applies to associate	ed SIOs as defi	ned in the SWPPP, where	applicable	e.			
Samp 80		formation ocument the monitoring Period (o	a Anr-May)			oot nov	_	_	121
		ocument the Date/Time Discharg		Reading" field of this line (ısina	10/4/19			1
0	mr	m/dd/yy hh:mm format).				04:34			1
0	<u>m</u> r	ocument the Date/time sample com/dd/yy hh:mm format).				10/4/19 04:34			1
0	(us	ocument the Date/time sample vi sing mm/dd/yy hh:mm format).				10/4/19 11:31			1
0	(in	ocument the nature of discharge) in the "Reading" field of this lin	e			rain .49	<u></u>		10
0		imple collected in first 30 minute ason.	s of discharge?	lf "Failed" or unknown, prov	vide a			_П_	TV.
	neters						570		
10		sample colorless? If "Failed", de				brown	_[X		
20		sample oderless? If "Failed", pro lvent, petroleum/gas)	vide description	(e.g. musty, sewage, sulfu	r, sour				14
30		sample clear? If "Failed", provide				slightly cloudy	IX.		П
40		sample free of floating solids? If mments of this line.	"Failed", descrit	pe if raw or waste material(s	s) in the	Vegetation	124		
50	ls s	sample free of settled solids? If	'Failed", provide	description (e.g., fine, cour	rse).				1
60		sample free of suspended solids				coarse	1X		
70	(e.(sample foamless after gently sha g ₋ ,'on the surface' or 'in the sam	ple').						V
30		sample devoid of an oil sheen? I	f "Failed", descr	ibe color and thickness (e.c	g flecks,			П	
90	ls s	sample free of other obvious ind	icators of pollution	on? If "Failed", describe.			П	口	1
bor	Repo	ort							
	•								
		: 10/4/2019 11:31:00 AM arwin Shendo							
-poi	1910	0 -							
	M	SUP	10/9/2019						
	Si	ignature / Name	D-4	0:	/ NI			Data	
onfi-		e information as recorded is tr	Date	Signatu	ıre / Name			Date	

"I certify under penalty of law that this document and all attachments 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 m	nust meet definition in Section B.11.A, eg	. FOD, Ops Mgr, DESH Group Le	ader, EPC Group Leader)
Print name ar	nd title: <u>Taunia Van Valkenburg, EPC-</u>	CP Group Leader	
Signature:	(See signature on file)	Date:	

Maintenance Details

Work Order MSGP-63999

MSGP Monitoring Stations Printed 10/28/2019 - 2:47 PM

•	 ted: 10/7/2019 10:14:00 AM ure: MSGP Quarterly Visual Assessment (EPC-CP-Form- 1021.2) 10/4/2019 		11/30/2019 Normal / Inspection Utilities and Infrastructure	MSGP Prograr 류 RG121.9 라 TA-3-22 Power Monitored Outf	& Stear		
Project	Visual Assessments 10/1/19			♣ MSGP00501			
	(P-MSGP-5407)			Contact:			
Reason	: MSGP Quarterly Visual Assessi	ment		Phone:			
asks							
#	Description			Meas.	No	N/A	Yes
The res	sult of this VA applies to associa	ted SIOs as defi	ned in the SWPPP, where a	applicable.			
Sample	einformation						
30	Document the monitoring Period	(e.g., Apr-May)		oct-nov			1
40	Document the Date/Time Discha mm/dd/yy hh:mm format).	rge began in the '	'Reading" field of this line (us	sing 10/4/19 04:30	П	Б	1
50	Document the Date/time sample mm/dd/yy hh:mm format).	collected in the "I	Reading" field of this line (us				
	Document the Date/time sample	visually assessed	Lin the "Reading" field of this				1
50	(using mm/dd/yy hh:mm format).			11:27			V
70	Document the nature of discharg (in) in the "Reading" field of this I		vmelt). Document the TOTAL	amount rain .49			1
30	Sample collected in first 30 minutereason,	tes of discharge?	If "Failed" or unknown, provi	ide a	г	П	10
Parame	eters					-	
110	Is sample colorless? If "Failed", o	lescribe.		brown	130	П	П
120	Is sample oderless? If "Failed", p solvent, petroleum/gas)		ı (e.g. musty, sewage, sulfur,	sour		_	
130	Is sample clear? If "Failed", provi	do description (o	a cliabthy olaudy, olaudy, an	musty	12		
	Is sample free of floating solids?						-
140	comments of this line.	7 ME 1 M 200 M 1					
150	Is sample free of settled solids? I						***
160	Is sample free of suspended solid	haking? If "Failed		cation on the			
170	(e.g., 'on the surface' or 'in the sar Is sample devoid of an oil sheen?		ribe color and thickness (e.g.	surface surface			
180	globs).						1
190	Is sample free of other obvious in	dicators of polluti	on? If "Failed", describe.		П		1
Comple	ted: 10/4/2019 11:27:00 AM Marwin Shendo				_		
/	Bie	10/9/2019					
confirm	Signature / Name the information as recorded is	Date true, accurate a	Signatur nd complete.	re / Name		Date	
	PC-DO: 19-454		Attachment 1				,

"I certify under penalty of law that this document and all attachments 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 m	nust meet definition in Section B.11.A, eg	. FOD, Ops Mgr, DESH Group Lea	ader, EPC Group Leader)
Print name an	nd title: Taunia Van Valkenburg, EPC-	CP Group Leader	.
Signature:	(See signature on file)	Date:	

8

Work Order MSGP-64018

MSGP Monitoring Stations Printed 10/28/2019 - 2:50 PM

Taken By: Procedure: Last PM:		Banar, Alethea on 10/10/2019 5:51:00 PM Banar, Alethea MSGP Quarterly Visual Assessment (EPC-CP- Form-1021.2)	nitored Outfall	121.9 3-22 Power & Steam Plant nitored Outfall (009) estantially Identical Outfall (008)						
		10/4/2019			IN INIS	GP00801				
Projec	t:	Visual Assessments 10/1/19 (P-MSGP-5407)				ct: Banar, Alet	hea			
Reaso	n: MSGF	Quarterly Visual Assessm	ent		Phone	: 699-5836				
asks										
#	Descri	ption				Meas.	No	N/A	Yes	
The re	sult of th	is VA applies to associat	ed SIOs as defir	ed in the SWPPP, where a	pplicable	÷.				
	e informa								-	
30		ent the monitoring Period (Oct/Nov		- 1		
40	mm/dd	/yy hh:mm format).		Reading" field of this line (us		10/04/19 @ 03:30	П	_□_	V	
50		ent the Date/time sample o /yy hh:mm format).	ng	10/04/19 @ 03:30	П	П	1			
60		ent the Date/time sample v nm/dd/yy hh:mm format).	isually assessed	in the "Reading" field of this	line	10/04/19 @ 10:58			1	
70	Docum			melt). Document the TOTAL	amount	Rain @ 0.49"			W	
80	Sample reason.		es of discharge? I	f "Failed" or unknown, provi	de a		П	П		
Param	eters								-	
110	ls samp	ole colorless? If "Failed", de	escribe				П		1	
120		ole oderless? If "Failed", pro	ovide description	(e.g. musty, sewage, sulfur,	sour,		П	П	rv.	
130			e description (e.g	., slightly cloudy, cloudy, op	aque).				1	
40	Is samp			e if raw or waste material(s)			П	Б	1	
150			"Failed", provide	description (e.g., fine, cours	e).				TV	
60				vide description (e.g., fine, c			П		10/	
70	ls samp		aking? If "Failed"	describe foam color and loo				П	TV.	
180	ls samp globs).	le devoid of an oil sheen?	If "Failed", descri	be color and thickness (e.g.	flecks,		П	Б.	TV.	
90	ls samp	le free of other obvious ind	icators of pollution	n? If "Failed", describe.			П	П	~	
	Report									
ıbor F										
	eted: 10/	4/2019 10:58:00 AM								

I confirm the information as recorded is true, accurate and complete.

EPC-DO: 19-454

Attachment 1

10/10/2019 Date

Signature / Name

9

Date

CERT	IFIC	ATION	STAT	CEMEN	Г

"I certify under penalty of law that this document and all attachments 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 n	nust meet definition in Section B.11.A, eg	g. FOD, Ops Mgr, DESH Group Leader	r, EPC Group Leader)
Print name ar	nd title: <u>Taunia Van Valkenburg, EPC-</u>	CP Group Leader	
Signature:	(See signature on file)	Date:	

Work Order MSGP-64019

MSGP Monitoring Stations Printed 10/28/2019 - 2:48 PM

/lainte	enance l	Details								
Taken Proced	By: dure:	Banar, Alethea on 10/10/2019 5:52:00 PM Banar, Alethea MSGP Quarterly Visual Assessment (EPC-CP- Form-1021.2)	nitored Outfall	3121.9 3-22 Power & Steam Plant nitored Outfall (012) ostantially Identical Outfall (011)						
ast P		10/4/2019								
Projec Reaso		Visual Assessments 10/1/19 (P-MSGP-5407) Quarterly Visual Assessm	ent			ct: Banar, Alet :: 699-5836	hea			
		,								
asks										
#	Descri	ption				Meas.	No	N/A	Yes	
	le informa	ation ent the monitoring Period (e	e.g., Apr-May)	ned in the SWPPP, where a		Oct/Nov			IV.	
40	Docum mm/dd	ent the Date/Time Discharg /yy hh:mm format).	e began in the "	Reading" field of this line (us	sing	10/04/19 @ 03:30			14	
50		ent the Date/time sample co /yy hh:mm format)	ollected in the "R	Reading" field of this line (usi	ng	10/04/19 @ 03:30		П	IV.	
50		ent the Date/time sample vi mm/dd/yy hh:mm format).	sually assessed	in the "Reading" field of this	line	10/04/19 @ 10:31		г	V	
70	Docum			melt). Document the TOTAL	amount	Rain 0.49"			1	
30	Sample reason.		s of discharge? I	lf "Failed" or unknown, provi	de a		П		IV.	
aram	eters									
110		ole colorless? If "Failed", de	scribe				П	10	V	
20	ls samp	ole oderless? If "Failed", pro	vide description	(e.g. musty, sewage, sulfur,	sour,			П	1	
30			e description (e.c	g., slightly cloudy, cloudy, op	ague).				1	
40	Is samp			e if raw or waste material(s)		Pine needles	136			
50			Failed" provide	description (e.g., fine, cours	e)	needles		-	14	
60				vide description (e.g., fine, course				-	10/	
70	Is samp		king? If "Failed"	describe foam color and loo			<u> </u>		1	
80				be color and thickness (e.g.	flecks,				10/	
90		ele free of other obvious indi	cators of pollution	on? If "Failed", describe.			_		1	
			•							
bor F	Report									
omple	eted: 10/	/4/2019 10:31:00 AM								
eport	: 10/10/2	019 - 118432: Holly Wheele	er							
	1. 11	- 1()								
Í	1 colle	Well	10/10/2019							

I confirm the information as recorded is true, accurate and complete. EPC-DO: 19-454

Signature / Name

Attachment 1

Signature / Name

11

Date

"I certify under penalty of law that this document and all attachments 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:_	Taunia Van Valkenburg, EPC-	CP Group Leader	
Signature: (See	e signature on file)	Date:	

ATTACHMENT 9: CORRECTIVE ACTION DOCUMENTATION AND CERTIFICATION

CERTIFICATION FOR CORRECTIVE ACTIONS

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

Printed Name: Russell Stone	Title: GC OCSH-UIS
Signature: Swall to	Date:

C	AR# FOD	MSGP Facility Desc	Inspection Date	Specific Location	CA Report Status	Finding	Problem Description	Inspection Type	Corrective Action Description		Affected	Action Taken	Is SWPPP Modification Required?	CA Initiate Date	CA Complete Date	Completed	CA Expected Date	CA Status Desc	EPA Notified Date (if 45 day time frame is exceeded.)
1	457 UI	TA-3-22 Power & Steam Plant	12/14/2018 14:45	TA-03-1404 Standby Generator		release or discharge	During refueling of the generator ~2 pints of diesel was released to the concrete and the side of the generator engine shroud following what appeared to be a malfunction of the tank's overfill protection. Facility staff stated the audible and visual alrm, which would have indicated the tank was 90% full, did not activate and a burst of diesel was released from the fill port to the adjacent area.		The release did not impact soil, surface water, or groundwater. The spill was immediately cleaned up and the overfill alarm is being assessed by facility personnel.	N	-	-	Y	12/14/2018 15:00	12/14/2018 17:00	Y	-	An FSR was placed to evaluate and repair the 90% alarm.	-
1	441 UI	TA-3-22 Power & Steam Plant	12/18/2018 13:15	cooling towers		inadequate to meet non-numeric effluent limitations	At the TA-3-22 Power and Steam Plant, there is a large steel beam that is rusted and being stored uncovered outside. In addition, a rusted overflow pipe that fell from Tank #336 needs to be disposed of or recycled.	·	Dispose of or recycle the overflow pipe from Tank #336. It is highly rusted and no longer useful. In addition, cover or recycle the rusted steel metal beam that is stored south of the cooling towers.		and 010	The overflow pipe could affect outfall 010 if not disposed of or recycled. The steel beam could affect outfall 007 if not covered. However, there are currently gravel bags preventing stormwater runoff from discharging to this outfall.		12/20/2018 13:00	12/20/2018 14:00	Y	-	Dispose of or recycle the overflow pipe from Tank #336. It is highly rusted and no longer useful. In addition, cover or recycle the rusted steel metal beam that is stored south of the cooling towers. Pipe was removed and disposed 12/20/18.	-

144	O UI	TA-3-22 Power & Steam Plant	12/18/2018 13:15	CGTG at TA-3-22.	A new corrective action	inadequate to meet non-numeric	South of CGTG at TA-3-22, there is water mixed with small globs of oil in the secondary containment under a drum.	Routine facility inspection	Drain the oily water from the secondary containment before the next rain event so it will not overflow.	-	-	N	1/10/2019 13:00	1/10/2019 14:00 Y		Drain the oily water from the - secondary containment before the next rain event so it will not overflow. The sec cont was pumped out and put into the CGTG oily water tank on 1/10/19.
143	9 UI	TA-3-22 Power & Steam Plant		#1853 at the TA-3		not properly operated or	At TA-3-22, the tarp used to cover the piping east of structure #1853 is ripped and needs to be replaced.	Routine facility inspection	Replace the tarp on the piping. N	-	-	N	12/20/2018 13:00	12/20/2018 14:00 Y	-	Replace the tarp on the piping. Tarp was replaced 12/20/18.
143	B UI	TA-3-22 Power & Steam Plant	12/18/2018 13:15			Control measures not properly operated or maintained	There is a breach in the asphalt berm south of TA-3 22.	•	Put temporary controls in place of Y the breached portion of the berm.	005 and 006	The berm prevents erosion on the slope by channeling stormwater to either outfall 005 or outfall 006. Installation of a temporary control will restore this flow pattern.	Y	12/20/2018 10:00	12/20/2018 12:00 Y		Put temporary controls in place of the breached portion of the berm. Gravel bags were installed 12/20/18.
142	4 UI	TA-3-22 Power & Steam Plant		Side of Building	A new corrective action		Trash and debris has accumulated inside the piping cage enclosure.	Routine facility inspection	Clean out trash and debris from N inside the piping cage area. An FSR has been placed to remove the piping and cage enclosure.	-	-	N	12/4/2018 13:00	12/4/2018 15:00 Y	-	Reported to facility personnel at the time of inspection. Roads & Grounds will be contacted to perform work. Work was completed 12/4/18.

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:	Russell Stone	Title: _	ESH Mgr. 4	
Signature:	Roullotte	Date:	2/8/2020	

CAR # FOD	MSGP Facility Desc	Inspection Date Specific Location	Inspecto Name	or Identifying Name	g CA Repo Status	ort Fir	nding	Finding Other Desc	Problem Description	Inspection Type	Inspection Type Other	Corrective Action Description	SIO SIO Affects	Provide Action Taken at Affected SIOs	Swppp Modify	CA Initiate Date	CA Complete Date Comp	eleted CA Expected Date	CA Status Desc	EPA Notified Date
1672 UI	TA-3-22 Power & Steam Plant	12/18/2019 10:00 West of Tank 336 at T 3-22		O SHENDO IN MARWIN		ina nur	ntrol measures dequate to meet non- neric effluent itations	-	At the TA-3-22 Power and Steam Plant, west of Tank 336, trash needs to be disposed off. Housekeeping issue.	Routine facility inspection		Dispose of the trash west of Tank 336.	N -	-	N	12/18/2019 11:04	12/18/2019 11:08 Y	-	N/A	-
1671 UI	TA-3-22 Power & Steam Plant	12/18/2019 10:00 SW comer of TA-3-22		O SHENDO IN MARWIN		ina nur	ntrol measures dequate to meet non- neric effluent itations	-	At TA-3-22, a dumpster on the southwest corner o TA-3-22 was not closed.	f Routine facility inspection	-	The dumpster was closed.	Y	5 Only applicable to outfall 005.	N	12/18/2019 10:30	12/18/2019 10:45 Y	=	N/A	-
1651 UI	TA-3-22 Power & Steam Plant	11/21/2019 17:00 SW comer of TA-3-22	HOLLY	ER WHEELEI L HOLLY L	action	ina nur lim	dequate to meet non- neric effluent itations	-	At TA-3-22, the Power and Steam Plant, a mixed recycle dumpster was uncovered during a snow storm.	Other (describe):	Observed during stormwater monitoring activities.	Close the lid on the dumpster containing mixed recycling. DEP checked dumsters the morning of 11/22 and the lids were all closed.	Y	5 Specific to only outfall 005.	N	11/22/2019 9:00	11/22/2019 9:00 Y	-	N/A	-
1634 UI	TA-3-22 Power & Steam Plant	10/29/2019 16:45 Outfall 009 at the TA- 22 Power and Steam Plant		ER WHEELEI L HOLLY L			erage benchmark value eedance		The average concentration of total Iron discharged from outfall 1099 at the TA-3-22 Power and Steam Plant was mathematically certain to exceed the benchmark value. This average was calculated from monitoring results associated with storm events occurring on 06/15/2019 and individual analytical results of 3,470 ug/L and 3,220 ug/L. The average was 1,672.5 ug/L. The benchmark value is 1,000 ug/L.	_	•	Personnel shall evaluate potential pollutant sources of total Iron and implement additional controls to ensure discharge of this pollutant source in stormwater is minimized. Sweeping and outfall clean-out was performed at the end of Aug and Sept 2019. The Metallox wattles were changed out at the end of Aug 2019. The welding area and pipe racks have been removed from the facility as of first week of Sept 2019.	Y	9 Since outfall 009 is associated with substantially identical outfalls (SIOs) 007, 008 and 010, facility personnel must also assess the need for corrective action at these outfalls and document how the corrective action was appropriate for all SIOs, document why the exceedance would not affect these outfalls, or document additional corrective action taken specific to either of these outfalls.		10/29/2019 16:45	10/29/2019 16:45 Y	-	N/A	-
1633 UI	TA-3-22 Power & Steam Plant	10/29/2019 16:33 Outfall 005 at the TA- 22 Power and Steam Plant		ER WHEELEI L HOLLY L			erage benchmark value eedance	· -	The average concentration of total Iron discharged from outfall 005 at the TA-3-22 Power and Steam Plant was mathematically certain to exceed the benchmark value. This average was calculated for monitoring results associated with the storm event occurring on 08/07/2019 and an individual analytical result of 54,900 ug/L. The average was 13,725 ug/L. The benchmark value is 1,000 ug/L.	n	-	Personnel shall evaluate potential pollutant sources of total Iron and implement additional controls to ensure discharge of this pollutant source in stormwater is minimized. Corrective actions have been taken, which post-date this exceedance: Sweeping and outfall cleanout was performed at the end of Aug and Sept 2019. The Metallox wattle was changed out at the end of Aug 2019. The rusting pipe rack on the SW side of Bldg. 22 was also removed in Aug 2019.		5 Since outfall 006 is associated with substantially identical outfall (SIO) 005, facility personnel must also assess the need for corrective action at outfall 006 and document how the corrective action was appropriate for both, document why the exceedance would not affect this outfall, or document additional corrective action taken specific to this outfall.		10/29/2019 16:33	10/29/2019 16:33 Y	-	N/A	-
1615 UI	TA-3-22 Power & Steam Plant	10/2/2019 16:24 Outfall 012 at the TA- 22 Power and Steam Plant		ER WHEELEI L HOLLY L			paired water quality eedance	-	Discharge from outfall 012 at the TA-3-22 Power and Steam Plant exceeded the New Mexico water quality standard for dissolved Copper. The concentration of dissolved Copper discharged during the storm event on 07.25/2019 was 13.5 ug/L and the water quality standard is 7.0 ug/L.		-	Personnel shall evaluate potential pollutant sources of dissolved Copper and implement additional controls to ensure discharge of this pollutant source in stormwater is minimized. The DEP evaluated the outfall on 10/3/19 and walked down with Roads & Grounds on 10/4/19. There was no erosion evident or excessive sedimentation and no obvious sources of copper present. Roads and Grounds will replace the Metallox wattle and clean the culvert out to the outfall which is located in the switchyard. This site will require special access and work will be scheduled when access can be provided. The work was completed 10/8/19 a.m.		d Since outfall 012 is associated with substantially identical outfall (SIO) 011, facility personnel must also assess the need for corrective action at outfall 011 and document how the corrective action was appropriate for both, document why the exceedance would not affect this outfall, or document additional corrective action taken specific to this outfall.		10/3/2019 12:00	10/8/2019 9:30 Y	-	N/A	-
1611 UI	TA-3-22 Power & Steam Plant	9/25/2019 14:00 Southwest corner of Build. 03-0022, gravel bags -0012 and asphal swale -0049	ALETHI	BANAR EA ALETHEA K		pro	ntrol measures not perly operated or intained	-	Sediment in gutter around gravel bags 0300403100012 around stormwater drop inlet. Sediment in asphalt swale 0300404020004 above EnviroSoxx w' MetalLox 0300403200049 at Monitored Outfall 005.	Other (describe):	construction general	Remove sediment from gutter and asphalt swale. 9/25/19 Roads and Grounds was notified of work by COB. 9/26/19 sediment was removed from gutter and swale.	N N/A	N/A	N	9/26/2019 9:00	9/26/2019 10:00 Y	-	In process. J. Burgin, DEP, notified by email 9/25/19 15:21	-
1601 UI	TA-3-22 Power & Steam Plant	9/23/2019 15:43 Outfall 009 at the TA- 22 Power & Steam Pla					paired water quality seedance	-	Discharge from outfall 009 at the TA-3-22 Power and Steam Plant exceeded the New Mexico water quality standard for dissolved Copper. The concentration of dissolved Copper discharged during the storm event on 04/23/2019 was 11.9 ug/L and the water quality standard is 7.0 ug/L.		-	Personnel shall evaluate potential pollutant sources of dissolved Copper and implement additional controls to ensure discharge of this pollutant source in stormwater is minimized. Multiple corrective actions have been taken, which post-date this exceedance: Sweeping and outfall clean-out was performed in Jul, Aug, and Sept 2019. The Metallox wattles were changed out in Aug 2019. The rusting fencing material and rusty flakes from the pipe at the reuse tank were removed in July 2019. The welding area and pipe racks have been removed from the facility as of first week of Sept 2019.	outfall	Exceedance is specific to only outfall 009.	Y	9/24/2019 8:00	9/24/2019 8:00 Y	·	N/A	_
1600 UI	TA-3-22 Power & Steam Plant	9/23/2019 15:30 Outfall 009 at the TA- 22 Power & Steam Pla					paired water quality ecedance	•	Discharge from outfall 009 at the TA-3-22 Power and Steam Plant exceeded the New Mexico water quality standard for total recoverable Aluminum. The concentration of total recoverable Aluminum discharged during the storm event on 04/23/2019 was 6,550 ug/L and the water quality standard is 1,010 ug/L.		-	Personnel shall evaluate potential pollutant sources of total recoverable Aluminum and implement additional controls to ensure discharge of this pollutant source in stormwater is minimized. Multiple corrective actions have been taken, which post-date this exceedance: Sweeping and outfall clean-out was performed in Jul, Aug, and Sept 2019. The Metallox wattles were changed out in Aug 2019. The rusting fencing material and rusty flakes from the pipe at the reuse tank were removed in July 2019. The welding area and pipe racks have been removed from the facility as of first week of Sept 2019.	outfall 009	Exceedance is specific to only outfall 009.	Y	9/24/2019 8:00	9/24/2019 8:00 Y	-	N/A	-
1599 UI	TA-3-22 Power & Steam Plant	9/23/2019 15:22 Outfall 005 at the TA- 22 Power & Steam Pla					paired water quality eeedance	-	Discharge from outfall 005 at the TA-3-22 Power & Steam Plant exceeded the New Mexico water quality standard for dissolved Copper. The concentration of dissolved copper discharged during the storm event on 04/22/2019 was 15.9 ug/L and the water quality standard is 7.0 ug/L.		·	Personnel shall evaluate potential pollutant sources of dissolved Copper and implement additional controls to ensure discharge of this pollutant source in stormwater is minimized. Multiple corrective actions have been take, which post-date this exceedance: Sweeping and outfall clean-out was performed in Jul, Aug, and Sept 2019. The Metallox wattle was changed out in Aug 2019. The rusting pipe rack on the SW side of Bldg. 22 was removed in Aug 2019.	outfall	Exceedance is specific to only outfall 005.	Y	9/24/2019 8:00	9/24/2019 8:00 Y	-	N/A	-
1598 UI	TA-3-22 Power & Steam Plant	9/23/2019 15:10 Outfall 005 at the TA- 22 Power & Steam Pla					paired water quality eecdance	-	Discharge from outfall 005 at the TA-3-22 Power and Steam Plant exceeded the New Mexico water quality standard for total recoverable Aluminum. The concentration of total recoverable Aluminum discharged during the storm event on 04/22/2019 was 18,300 ug/L and the water quality standard is 1,010 ug/L.	monitoring	-	Personnel shall evaluate potential pollutant sources of total recoverable Aluminum and implement additional controls to ensure discharge of this pollutant source in stormwater is minimized. Mutliple corrective actions have been taken, which post-date this exceedance: Sweeping and outfall clean-out was performed in Jul, Aug, and Sept 2019. The Metallox wattle was changed out in Aug 2019. The rusting pipe rack on the SW side of Bldg. 22 was removed in Aug 2019.	outfall 005	Exceedance is specific to only outfall 005.	Y	•	9/24/2019 8:00 Y	-	N/A	-

	MSGP Facility Desc			Inspector Identifying CA Repo		Desc	Problem Description	Inspection Type	Other	Corrective Action Description	SIO SIO Affect	Provide Action Taken at Affected SIOs ed	Modify			Expected Date		
1587 UI	TA-3-22 Power & Steam Plant	8/22/2019 16:3	77 Control number 0300403110018 just south of transformers at the TA-3-22 Power and Steam Plant	WHEELER WHEELER A new co	rective Control measures not properly operated or maintained	-	At the TA-3-22 Power and Steam Plant, just so of transformers at control number 0300403110 the Eco-Blok was removed, and gravel bags and the asphalt berm were driven over by a piece of heavy equipment and are not longer functioning	0018, id f	While conducting sampler maintenance.	Place Eco-Blok back in place at the bottom of the slope to prevent sediments from migrating off the slope. If gravel bags are also used for additional stabilization, remo've broken and damaged bags and replace them with new ones. Roads and Grounds evaluated the work on 8/26 and it was scheduled and completed on 8/27/19. The Eco-Bloks were repositioned and the gravel bags were replaced.	N -		N	8/26/2019 9:00	8/27/2019 12:00 Y	-	N/A	
1585 UI	TA-3-22 Power & Steam Plant	8/8/2019 11:0		WHEELER WHEELER A new co HOLLY L HOLLY L action	rective Control measures not properly operated or maintained	-	At the end of the culvert draining stormwater fre the trench drain (control # 0300409040036) at TA-3-22 Power and Steam Plant, a MetalLoxx wattle (control # 0300403200045) and gravel twas shoved to the side and no longer functioning.	the		Determine if MetalLoxx wattle is still useful. If so, ce place it back at the culvert so it can function. Put the gravel bag back into use. The work was walked down with Roads & Grounds on 8/8/19. The work was completed on 8/9/19.	N -		N	8/8/2019 14:30	8/9/2019 14:30 Y	-	N/A	
1584 UI	TA-3-22 Power & Steam Plant	8/8/2019 11:0	0 Concrete channel at the TA-3-22 Power and Steam Plant	WHEELER WHEELER A new co HOLLY L HOLLY L action	rective Control measures not properly operated or maintained		At the TA-3-22 Power and Steam plant, a concchannel to a culvert is draining poorly due to hi sediment load, three MetalLoxx wattles and vegetative debris at the culvert outflet.			Assess if all three MetalLoxx wattles (control # co 300403200046) are functioning at the culvert. If the are old and are not functioning, remove them from the concrete channel drainage and disposed of them. Remove the sediment load at the bottom of the channe and assess if additional controls are needed to stabilize the area draining to the culvert and concrete channel. Remove vegetative debris from the grate over the culvert. The work was walked down with Roads and Grounds on 8/8/19. The culverts were cleaned out and wattles replaced on 8/9/19.	y I e	009 Issue specific to outfall 009 only. However, i should be noted that sediment load to outfall 010 is occuring.		8/8/2019 14:30	8/9/2019 14:30 Y	-	N/A	
1583 UI	TA-3-22 Power & Steam Plant	8/8/2019 11:0	0 Directly West of the Pipefitter Welding Area	BURGIN BURGIN A new co JILLIAN E JILLIAN E action	rective Control measures not properly operated or maintained	-	At the TA-3-22 Power Plant, there are rusty me work tables that have recently been moved into area, which are not being kept covered.		1 -	Cover or remove the rusted metal tables. The work wa reviewed with the Pipefitter Formeman who scheduled the tables to be moved out of the area. The tables were removed on 8/9/19.			N	8/8/2019 15:00	8/9/2019 10:00 Y	-	N/A	
1582 UI	TA-3-22 Power & Steam Plant	8/8/2019 11:0	0 Metal Roll-Off Bin East of Bldg 22	BURGIN BURGIN A new co JILLIAN E JILLIAN E action	rective Control measures not properly operated or maintained	-	At the TA-3-22 Power Plant, the cover on the n roll-off bin is not secure on one side of the bin.		1 -	Fully resecure the cover to the metal roll-off bin. The work was completed on 8/8/19.	N -	N/A	N	8/8/2019 14:00	8/8/2019 14:30 Y	-	-	
1581 UI	TA-3-22 Power & Steam Plant	8/8/2019 11:0	0 NE of CGTG and around culvert at SIO 007	I BURGIN BURGIN A new co JILLIAN E JILLIAN E action	rective Control measures not properly operated or maintained	-	At the TA-3-22 Power Plant, gravel bags are to at the top of the rock retention pond to Outfall (NE of the CGTG) and around the culvert at Outfall 007.		1 -	Replace torn gravel bags. The work was reviewed with R&G and will be scheduled on 8/9/19 due to inclement weather (30/30 lightning restrictions) in the afternoon of 8/8/19. Work was completed 8/9/19.	nt	08 Applicable to 007 and 008 only.	N	8/8/2019 16:30	8/9/2019 14:00 Y	-	N/A	
1572 UI	TA-3-22 Power & Steam Plant	7/31/2019 15:5		- WHEELER WHEELER A new co HOLLY L HOLLY L action	rective Other (describe):	Control measure installed incorrectly.	s At the TA-3-22 Power and Steam Plant, near th reuse tank (TA-3-336) and monitored outfall 0t two stormwater controls were installed incorrect two stormwaters.	09,	Site walk down	Trench in the straw wattles (2 to 3 inches, as specified in the LANL BMP Manual) installed between the reuse tank and monitored outfall 009. Also, trench in (6 inches, as specified in the LANL BMP Manual) the top of the biodegradable matting installed west of the reuse tank. 8/1/19 the work was put on the UI-POD and is scheduled for 8/2/19. The work was started on 8/2 and completed on 8/3/19.	outfal 009	This issue is specific to only outfall 009.	Y	8/1/2019 15:00	8/3/2019 12:00 Y	-	N/A	
1566 UI	TA-3-22 Power & Steam Plant	7/23/2019 12:0		WHEELER WHEELER A new co HOLLY L HOLLY L action	rective Control measures not properly operated or maintained	-	In the weir for outfall 009, for the TA-3-22 Pov and Steam Plant, the MetalLox wattle is wired i manner that allows stormwater to flow under it. Thus, it is not installed or working effectively.	in a	Site walk down	Re-install the MetalLox wattle correctly. DEP walked down the site with pipefitter foreman on 7/24/19. The wattle was resecured on 7/29.		9 Condition specific to outfall 009 only.	N	7/24/2019 10:00	7/29/2019 9:30 Y	-	N/A	
1565 UI	TA-3-22 Power & Steam Plant	7/23/2019 12:0	0 North of TA-3-336 at the TA-3-22 Power and Steam Plant.	WHEELER WHEELER A new co HOLLY L HOLLY L action	rective Control measures inadequate to meet non- numeric effluent limitations	-	North of TA-3-336 at the TA-3-22 Power and Steam Plant, there are iron flakes on the ground around a drain and rusted chain link fencing abandoned in the drainage.		Site walk down	Properly dispose of the chain link fencing and clean up the iron flakes on the ground around the drain north of the reuse tank (TA-3-336). The rusted iron flakes were cleaned up on 7/24 and 7/25. The chain link fencing was removed on 7/29.	•	9 Condition is specific to outfall 009 only.	N	7/24/2019 10:00	7/29/2019 9:30 Y	-	N/A	
1564 UI	TA-3-22 Power & Steam Plant	7/23/2019 11:4		WHEELER WHEELER A new co	rective Control measures inadequate to meet non numerie effluent limitations		North of TA-3-1682 at the TA-3-22 Power and Steam Plant, there is an area that was inadequat stabilized as part of the new substation project. The hydromulch was sprayed too thin. Also a ri rap channel only goes half way down the slope stops. Both are resulting in crosion.	itely ip	Site walk down.	Stabilize the bare slope and croded areas to prevent sedimentation and additional crosion. Rebuild the rip rap channel to tie into the other rip rap channel at the bottom of the slope that drains to the culvert at outfall 010 and actually act as a channel to convey stormwater. On 7/19/19, gravel bags were placed at the top of the slope by Roads & Grounds to minimize run-on to the area. The sub-contractor is responsible for re-stabilizing the area and is in the process of being recalled. The CAR is documentation for Triad/LANL that corrective action needs to be taken within the MSGP footprint of the facility.	may b affecti 009.	d Culverts draining to outfall 009 were cleaned out on 4/25/2019 and 6/17/2019.	ΙY	7/23/2019 11:45	7/23/2019 11:50 Y	-	•	
1563 UI	TA-3-22 Power & Steam Plant	7/18/2019 3:0	0 Re-use tank TA-03-0336	BURGIN BURGIN A new co JILLIAN E JILLIAN E action	rective Unauthorized release or discharge		At the TA-03-22 Power Plant's re-use tank (03- 336), approximately 500 gallons of treated sani effluent overflowed from the tank due to an issu with the tank's level indicator. The water flowe north through a forested area and into the north of Sandia Canyon.	itary ue ed		Upon discovery of the release the flow was isolated to stop the discharge. Erosion was noted beneath the overflow pipe which will need to be fixed. The releast will require external reporting to NMED pursuant to DP-857 and 20.6.2.1203 NMAC. On 7/22/19 a lessons learned briefing was conducted. On 7/24 a walkdown was conducted by DESH personnel and straw wattles were installed at the bottom of the slope to minimize sediment run-off from the croded area. An EX-ID was expedited to restabilize the eroded area with fill and rock. The work was complete on 7/31/19	e		Y	7/18/2019 15:05	7/31/2019 9:00 Y	-	N/A	

AR # FOD MSGP Facility Desc		Inspector Identifying CA Rep Name Name Status	-	Finding Other Problem Description Desc	Inspection Type Inspection Other	Type Corrective Action Description	SIO SIO Affected		Modify	CA Complete Date Com	pleted CA Expected Date	CA Status Desc	EPA Notified Date
1553 UI TA-3-22 Power & Steam Plant	7/9/2019 13:07 Outfall 009 at the TA-3 22 Power and Steam Plant	3- WHEELER WHEELER A new c HOLLY L HOLLY L action	orrective Average benchmark value exceedance	The average concentration of total Iron discharge from outfall 009 at TA-3-22 (the Power and Stea Plant) was mathematically certain to exceed the benchmark value. This average was calculated from monitoring results associated with the storm ever occurring on 04/23/2019 and individual analytics results of 5290 ug/L. The average was 5290 ug/L. The benchmark value is 1000 ug/L.	am rom ent eal	Personnel shall evaluate potential pollutant sources of total Iron and implement additional controls to ensure discharge of this pollutant source in stormwater is minimized. The drainage culverts were cleaned out on 6/17/19 (CAR# 1545) and on 4/25/19 (CAR# 1502), after the exceedance date. Sweeping was performed on 7/13/19. Potential pollutant sources were evaluated by DESH-UIS and Power Plant staff on 7/10/19 (meeting and walkdown). A BMP maintenance schedule will be put in the SWPPP and is listed below: -Lot sweeping will be performed once per month, before and during sampling season (April 1-Oct 31); and additionally as needed after heavy precipitation events (weather permitting)Metallox wattles associated with outfalls will be changed out in April, July, OctoberCulverts and drainages associated with outfalls will be cleaned-out monthly, before and during sampling season; and additionally as needed after heavy precipitation events (weather permitting).	outfall 009	Exceedance is specific to outfall 009 only.	Y 7/10/2019 9:0	0 7/13/2019 12:00 Y	-	N/A	-
1545 UI TA-3-22 Power & Steam Plant	6/14/2019 2:15 Outfall 005 & 009 drainage channels, Stor Drain SW of Bldg 22	BURGIN A new c m JILLIAN E JILLIAN E action	corrective Control measures inadequate to meet non-numeric effluent limitations	- At the TA-3-22 Power Plant, the asphalt drainage at Outfall 005 and concrete drainage channel and trench drain culverts for Outfall 009 need to have sediment cleaned out. The Metallox Wattle needs to be replaced at Outfall 005. The storm drain at the SW side of the building needs to have sedime removed from on top of it.	d ge ds t	Clean sediment out of drainage channels, culverts, and storm drain. Replace the Metallox wattle at Outfall 005. 6/14: Left a message for Roads & Grounds supvervisor to schedule a walkdown for Monday (6/17), 6/17: The work was walked down with R&G in the morning and it was completed in the afternoon.			Y 6/17/2019 9:	0 6/17/2019 14:30 Y	-		-
1536 UI TA-3-22 Power & Steam Plant	5/31/2019 14:15 South and southeast of the cooling towers at T. 3-22.	WHEELER WHEELER A new c A- HOLLY L HOLLY L action	corrective Control measures inadequate to meet non- numeric effluent limitations	In the southern portion of the TA-3-22 Power and Steam Plant, south of the cooling towers, the tarp only partially covering metal grating. Tarp is not adequately covering metal piping in the same general location. The ends of the pipe are sticking out.	p is ot	Adequately cover the metal grating and metal piping or move it inside a building. 6/3/19: Power Plant staff were notified of CAR and requested the pipefitter's cover their materials. The pipefitter's completed the work on 6/3/19.	N -	•	N 6/3/2019 8:0	0 6/3/2019 12:00 Y	-	N/A	-
1535 UI TA-3-22 Power & Steam Plant	5/31/2019 14:15 Southern porthion of th TA-3-22 Power and Steam Plant	te WHEELER WHEELER A new of HOLLY L HOLLY L action	corrective Control measures inadequate to meet non- numeric effluent limitations	On the southern portion of the TA-3-22 Power ar Steam Plant, there are some steel staples used to tack down landscaping matting, a broken wooder pallet, a metal trash can, and some scrap aluminu metal by the cooling tower outfall. There is also loose wiring on the ground on the west side of the cooling tower.	en um	Ik-down. Clean up the wood, landscaping staples, trash can, wiring and aluminum scrap metal. This is a housekeeping issue. 6/31/9: Power Plant staff were notified of CAR and cleaned up/removed materials throughout the day.	N -	-	N 6/3/2019 8:0	0 6/3/2019 16:00 Y	-	N/A	-
1534 UI TA-3-22 Power & Steam Plant	5/31/2019 14:15 Southwest corner of the TA-3-22 Power and Steam Plant	WHEELER WHEELER A new c HOLLY L HOLLY L action	corrective Control measures inadequate to meet non- numeric effluent limitations	 On the southeast corner of the TA-3-22 Power an Steam Plant, the lid was not covering the trash dumpster or the mixed recycle dumpster. 	ad Other (describe): Facility wal	lk-down. Cover the trash and mixed recycle dumpsters. 6/3/19: Power Plant staff were notified of issue and took corrective action.	N -	-	N 6/3/2019 8:0	6/3/2019 12:00 Y	-	N/A	-
1503 UI TA-3-22 Power & Steam Plant	4/25/2019 13:00 Pipefitter's Welding an Material Storage Area	d BURGIN BURGIN A new c JILLIAN E JILLIAN E action	corrective Control measures not properly operated or maintained	The tarps covering the pipefitter materials have either come off the materials or need to be replaced.		Re-tarp materials, replace tarps where needed.	N -		N 5/1/2019 13:0	0 5/2/2019 9:00 Y	-	Reported to facility personnel the time of inspection. Tarps v readjusted where wind hand blown them off. Some materia needed new tarps, which were replaced on 5/2/19.	were
1502 UI TA-3-22 Power & Steam Plant	4/25/2019 13:00 Drainages to Outfalls 0 and 005	09 BURGIN BURGIN A new c JILLIAN E JILLIAN E action	corrective Other (describe):	Post Storm Clean- Drainages to Outfalls 005 and 009 need clean-ou Out of sediment and debris (after heavy rain events).	t Routine facility inspection -	Clean out outfall drainages.	N -	-	N 4/25/2019 14:0	0 4/25/2019 16:00 Y	-	Reported to facility personnel the time of inspection. Work v completed the same day (after inspection) 4/25/19.	was
1487 UI TA-3-22 Power & Steam Plant	4/1/2019 16:00 Outfall 010 Culvert	BURGIN WHEELER A new c JILLIAN E HOLLY L action	corrective Control measures not properly operated or maintained	- The culvert at Outfall 010 is over halway full of sediment.	Other (describe): EPC installistage sampl	ling single Sediment needs to be removed/cleaned-out of culvert. ler	Y 10	0 Applicable to Outfall 010 only.	N 4/10/2019 13:0	0 4/10/2019 15:00 Y	-	EPC reported to DEPs on 4/1/ The work was walked down w Roads & Grounds on 4/9/19. Work was completed on 4/10/	vith
485 UI TA-3-22 Power & Steam Plant	3/27/2019 13:00 Outfalls and Drainages 005 & 009	BURGIN BURGIN A new of JILLIAN E JILLIAN E action	corrective Other (describe):	Post Winter PM Outfalls and drainages/culverts at 005 & 009 nee to be cleaned out and Metallox wattles need replacement.	d Routine facility inspection -	Clean out outfall drainages and culverts, replace Metallox wattles.	N -	•	Y 4/3/2019 8:0	0 4/3/2019 16:00 Y	-	Reported to facility personnel the time of inspection. Work vaced to be scheduled and performed by Roads & Groun DEP walked down with Road Grounds 3/29/19. Work is scheduled to be performed the week of 4/1/19. Work was completed on 4/3/19.	will ds. s &
1468 UI TA-3-22 Power & Steam Plant	2/27/2019 14:00 West Side of Pipefitter Welding Area	's BURGIN BURGIN A new c JILLIAN E JILLIAN E action	corrective Control measures not properly operated or maintained	 The tarp covering the sheet metal pile belonging the pipefitter's has become too torn to cover materials appropriately. 	to Routine facility inspection -	Replace or add new tarp to adequately cover the sheet metal or move the materials into covered storage.	N -	-	N 2/28/2019 10:3	0 2/28/2019 11:00 Y	-	CAR was reported to the facil at the time of inspection. CAR was completed on 2/28/19.	

ATTACHMENT 10: SCHEDULED MAINTENANCE LOG

SCHEDULED MAINTENANCE LOG

Control Measure or

	Equipment Description		Action Taken By
Date	(include location where appropriate)	Action Taken/Comments	Action Taken by
Date	(include location where appropriate)	Action raken/comments	(printed name & Z no.)

TA-03-22 Power and Steam Plant

MSGP Stormwater Pollution Prevention Plan Revision 1, January 2020

ATTACHMENT 11: TRAINING DOCUMENTATION

2018 SWPPP Training Roster – TA-03-22 Power & Steam Plant 12/13/2018

Name	Z#	Job Title
Dennis G. Gutierrez	185413	operaton
Paul A Montage	089771	P.P. OPS ben. FOCEMEN
MAUNY VICEL	176653	SHIFT HED
Pablo & Cdales	090708	UI Op's
I Will ams	107162	SHIFT HEAD
Aular	183264	Shift Kead
Josh Annet	205457	Shift head.
Robert Gray	099961	Sh: LThead
Cris Gomez	202748	foreman
Pretoleh Lajer	219115	power plant operator
LECUMANO PACHECO	191711	SHIPT HEAD P. PLAN
	,	

2018 Annual SWPPP Training

TA-3-22 Power & Steam Plant

- Review 2017 training presentation (new employees to the SWPPP, if applicable)
- New BMPs
- Review of Corrective Actions for the year:
 - ♣ 2/27/18: Erosion from hydrant leak south of SM-57 and soil disturbance from water line leak/repairs near SM-55 needs stabilization. Stabilize areas to prevent erosion from occurring/worsening. 2/28/18: Walked down areas with UI personnel to discuss stabilization methods. The soil around hydrant near SM-55 will be compacted back in place and stabilized with basecourse this was completed on 3/7/18. The disturbed area behind SM-55 will be stabilized with seeding and matting. Matting had to be ordered and the work will need to be scheduled. 3/7/18: the work will be scheduled for the week of 3/12/18. Work was completed 3/13/18.
 - ♣ 2/27/18: The asphalt channel BMP #0300404020037 and trench drain culvert outlet BMP# 0300409040036 need clean-out (sediment & debris removal). Remove sediment and debris from channel and culvert outlet. Walk down with Roads & Grounds performed on 3/1. Work completed 3/2/18.
 - → 3/28/18: Gravel bags are broken at Outfall 007 culvert and fenceline near NPDES Outfall 001 additional gravel bags are also needed in this area to berm fenceline. Replace torn gravel bags and add gravel bags to fenceline. Notified facility personnel of corrective action required at the time of inspection. Work was completed on 3/29/18.
 - ♣ 6/27/18: Culvert outlet/inlet at trench drain [BMP# 030040904036] and at concrete rundown [BMP# 0300404020037] need to be cleaned out. Clean sediment and brush out of culverts. Roads and grounds will schedule work. R&G completed work 7/6/18. Outfall 005 cleaned out also. Personnel shall evaluate potential pollutant sources of total Iron and implement additional controls to ensure discharge of this pollutant source in stormwater is minimized. Facility personnel must immediately take action to minimize off site discharge of total Iron at outfall 005.
 - ♣ 7/26/18: Culverts need clean out (again due to heavy rain events): Culvert outlet/inlet at trench drain [BMP# 030040904036] and at concrete rundown [BMP# 0300404020037]. Clean sediment and debris out of culverts (for Outfall 009). Roads and grounds will schedule. R&G completed work 8/9/18.
 - ➡ 7/26/18: Metal piping has been left uncovered (by carpenters) along the south side of building 22. Remove metal piping and put into proper storage. C/A was completed on 8/1/18.
 - ➡ 7/26/18: Two gravel bags were missing around the grated storm drain at the SW corner of Bldg. 22. Two gravel bags need to be placed around the storm drain. Roads & Grounds will schedule. R&G completed work 8/9/18.
 - **♣** 8/30/18: There is sediment and debris (from heavy storms) in the main drainage culvert to Outfall 009. Clean out drainage culvert. Work was completed 8/31/18.

- ↓ 10/25/18: Culvert is clogged with trash and debris. There is also accumulated sediment in the channel. Clean trash, debris and sediment out of culvert and channel. Notified facility of corrective action needed at the time of inspection. The culvert was cleaned out directly after the inspection.
- ↓ 11/29/18 Trash and debris has accumulated inside the piping cage enclosure located at the SW corner of Bldg. 22. Clean out trash and debris from inside the piping cage area. An FSR has been placed to remove the piping and cage enclosure. Reported to facility personnel at the time of inspection. Roads & Grounds will be contacted to perform work. Work was completed 12/4/18.

• Water Quality Exceedances:

- ♣ 7/13/18: The average concentration of total Iron discharged from outfall 005 at the TA-3-22 Power and Steam Plant was mathematically certain to exceed the benchmark value. This average was calculated from monitoring results associated with storm events occurring on 10/04/2017 and 05/21/2018 with individual analytical results of 2830 ug/L and 6410 ug/L. The average was 2310 ug/L. The benchmark value is 1000 ug/L. Facility personnel need to evaluate potential pollutant sources of total Iron and implement additional controls to ensure discharge of this pollutant source in stormwater is minimized. If finalization of corrective action(s) exceeds 14 days, documentation of why it is infeasible to complete the corrective action within the 14 day timeframe must be provided along with a schedule for completion. SWPPP modifications required as a result of this exceedance, if needed, must be implemented within 14 days of completing corrective action work. *The outfall channel was cleaned out on 7/6/18 (after sampling was performed 5/21/18).
- ↓ 7/19/18: Discharge from outfall 005 at the TA-3-22 Power and Steam Plant exceeded the New Mexico water quality standard for total recoverable Aluminum. The concentration of total recoverable Aluminum discharged during the storm event on 5/21/2018 was 3,280 ug/L and the water quality standard is 681 ug/L. Personnel shall evaluate potential pollutant sources of total recoverable Aluminum and implement additional controls to ensure discharge of this pollutant source in stormwater is minimized. Facility personnel must immediately take action to minimize off site discharge of total recoverable *Site outfalls were evaluated on 7/19/18 after notification of CAR. Outfall 005 asphalt swale was cleaned out and Metallox wattle replaced 7/23/18.
- ➡ 7/19/18: Discharge from outfall 005 at the TA-3-22 Power and Steam Plant exceeded
 the New Mexico water quality standard for dissolved Copper. The concentration of
 dissolved Copper discharged during the storm event on 05/21/2018 was 37.8 ug/L and
 the water quality standard is 6 ug/L. Personnel shall evaluate potential pollutant sources
 of dissolved Copper and implement additional controls to ensure discharge of this
 pollutant source in stormwater is minimized. Facility personnel must immediately take
 action to minimize off site discharge of dissolved Copper at outfall 005. *Site Outfalls
 were evaluated on 7/19/18 after notification of CAR. Outfall 005 asphalt swale was
 cleaned out and Metallox wattle replaced 7/23/18.

- → 7/19/18: Discharge from outfall 005 at the TA-3-22 Power and Steam Plant exceeded the New Mexico water quality standard for Adjusted Gross Alpha. The concentration of Adjusted Gross Alpha discharged during the storm event on 05/21/2018 was 25.3 pCi/L and the water quality standard is 15 pCi/L. Personnel shall evaluate potential pollutant sources of Adjusted Gross Alpha and implement additional controls to ensure discharge of this pollutant source in stormwater is minimized. Facility personnel must immediately take action to minimize off site discharge of Adjusted Gross Alpha at outfall 005. *Site outfalls were evaluated on 7/19/18 after notification of CAR. Outfall 005 asphalt swale was cleaned out and Metallox wattle replaced 7/23/18.
- * 8/30/18: Discharge from outfall 009 at the TA-3-22 Power and Steam Plant exceeded the New Mexico water quality standard for total recoverable Aluminum. The concentration of total recoverable Aluminum discharged during the storm event on 7/08/2018 was 725 ug/L and the water quality standard is 681 ug/L. Personnel shall evaluate potential pollutant sources of total recoverable Aluminum and implement additional controls to ensure discharge of this pollutant source in stormwater is minimized. Facility personnel must immediately take action to minimize off site discharge of total recoverable Aluminum at outfall 009. *Drainage culverts for Outfall 009 were cleaned out on 8/9/18 which post-dates this exceedance.
- ♣ 8/30/18: Discharge from outfall 012 at the TA-3-22 Power & Steam Plant exceeded the New Mexico water quality standard for total recoverable Aluminum. The concentration of total recoverable Aluminum discharged during the storm event on 7/17/2018 was 907 ug/L and the water quality standard is 681 ug/L. Personnel shall evaluate potential pollutant sources of total recoverable Aluminum and implement additional controls to ensure discharge of this pollutant source in stormwater is minimized. Facility personnel must immediately take action to minimize off site discharge of total recoverable Aluminum at outfall 012. *Outfall 12 is in an access controlled area near the transformer banks. Roads & Grounds will install a Metallox Wattle at the main drainage culvert as soon as they can arrange for access into the area. Wattle was installed 9/11/18.
- ** 8/30/18: Discharge from outfall 012 at the TA-3-22 Power & Steam Plant exceeded the New Mexico water quality standard for Adjusted Gross Alpha. The concentration of Adjusted Gross Alpha discharged during the storm event on 7/17/2018 was 18.4 pCi/L and the water quality standard is 15 pCi/L. Personnel shall evaluate potential pollutant sources of Adjusted Gross Alpha and implement additional controls to ensure discharge of this pollutant source in stormwater is minimized. Facility personnel must immediately take action to minimize off site discharge of Adjusted Gross Alpha at outfall 012. *Outfall 12 is in an access controlled area near the transformer banks. Roads & Grounds will install a Metallox Wattle at the main drainage culvert as soon as they can arrange for access into the area. Wattle was installed 9/11/18.
- Review of Spills
 - ♣ There were no spills this year!!! ☺
- SWPPP updates for 2019
 - Pipefitters to move welding area?

• General Discussion/Issues

- ♣ Put culverts on clean-out PM since they are problematic.
- Construction work for new transformers.



Storm Water Multi-Sector General Permit (MSGP) for Industrial Facilities

TA-3-22 Power & Steam Plant

2017-2018 SWPPP Training







- The MSGP is a National Pollutant Discharge Elimination System (NPDES) Permit associated with the Clean Water Act (CWA) of 1973
 - Regulates storm water discharges from industrial facilities/activities
 - Objective is to minimize pollutants to surface waters
 - A new permit (with no.) is issued approx. every 5 years 2015
 MSGP #NMR053915 (LANS)
 - Requires implementation of a Stormwater Pollution Prevention Plan (SWPPP)





MSGP - LANL Facilities

LANL MSGP Regulated Facilities:

- Metals Fab Shop TA-03-38: Sector AA (Fabricated Metal Products)
- Carpenter Shop TA-03-38: Sector A (Timber Products)
- Asphalt Batch Plant TA-60-233: Sector D (Asphalt Paving)
- Metal Recycling Facility (MRF) TA-60-311: Sector N (Scrap Recycling)
- Roads & Grounds TA-60-250: Sector P (Land Transportation/Warehousing)
- Power & Steam Plant TA-03-22: Sector O (Steam Electric Generating)
- Heavy Equipment TA-60-01: Sector P (Land Transportation/Warehousing)
- Salvage Yard TA-60-02: Sector P (Land Transportation/Warehousing)
- TA-3-39 & 102 Sector AA (Fabricated Metal Products)
- Sigma Complex Foundry TA-03-66: Sector AA & F (Fabricated & Primary Metals)
- TA-54 TA-54-Area G, Area L & Rant: Sector K (Hazardous Waste TSDF)
- Maint. Facility West TA-54-Area L: Sector P (Land Transportation/Warehousing)







- TA-3-22 Power & Steam Plant SWPPP Team:
 - Pablo C de Vaca, Power Plant Ops. Manager, UIS
 - Jillian Burgin, Deployed Environmental Professional (DEP)
 - Russell Stone, ESH Manager DSESH-UIS
 - Holly Wheeler, MSGP Compliance Lead, EPC-CP
- UIS Facility Managers/FOD
 - Lawrence Chavez, Operations Manager
 - Andrew Erickson, FOD





• Inlet & Outlet Protection: gravel bags and Metallox wattles provide inlet and outlet protection as well as flow dissipation. Metallox wattles filter out metals in stormwater run-off and can be used at outfalls where sampling is performed.















 Covered Metal/Material Storage: Covered storage racks and roll-off bins minimize storm water contact with materials and pollutants. Prevents releases to the environment.













Site Stabilization: (e.g. vegetation, paving, rip-rap, designated storm drains) provides erosion control, flow dissipation, minimization of pollutant transport.





 Berming: provides run-on/run-off control and flow dissipation.













 Good House-Keeping Practices: Covered and enclosed trash bins minimize debris on site. Periodic sweeping of the facility lot removes accumulated dust and reduces pollutants.

YOU can help reduce trash as well: keep truck beds clean, properly dispose of food trash and cigarette butts, keep dumpsters closed. Recycle water bottles, cans, plastic bags, etc..











Spill Protection:

 Secondary containment units provide extra spill protection for oilfilled equipment, tanks and drums as well as chemicals and waste drums/containers.







 Spill kits, clean-up materials (such as dry absorbents and drip pads) can be used to mitigate spills and prevent releases to the environment.





TA-3-22 Power Plant - Spill Reporting



Spill kits for the Power Plant are located outside on the north side of the CGTG control room 03-2424 and inside the plant around oilfilled equipment.







Los Alamos National Laboratory - LOG-MSS Guidance

Do you know who to call in the event of a spill/leak?





SEO (EM&R): 667-6211 EPC-CP: 667-0666

> or Spill Pager 664-7722

Roads & Grounds:

667-6111

WMCs Spill Pager:

664-5864 LOG-MSS DEP:

665-1893



Spills and leaks from vehicles, equipment and laboratory operations can accidentally occur. Oil, fuel, hydraulic fluids and other chemicals, once spilled or leaked to the environment are pollutants that require immediate clean-up and spill reporting. It is important to prevent pollutants from entering into a watercourse or storm drain and from coming into contact with storm water. If you have the ability and materials to contain a spill (i.e. spill kit—absorbent pads, booms, etc.) you may do so in order to prevent migration of the spilled material until additional help arrives. You are still required to report the spill and should be aware of who to contact.

The appropriate spill contact should be listed in your Integrated Work Document (IWD). This can vary from your PIC to the Security & Emergency Operations Center (SEO), also known as EM&R, to your site access control office. The name and contact information for your Waste Management Coordinator (WMC) should also be listed in the IWD.

When in doubt, contact the SEO. They will respond, assess the situation, determine further actions required and will contact appropriate personnel. The Environmental Protection & Compliance (EPC-CP) group will also be contacted. EPC-CP will ensure a Spill Report is completed to document the spill. If the pollutant has reached a watercourse or storm drain, EPC-CP is responsible for reporting the spill to the state environment department -NMED and EPA.

A WMC will ensure that waste from a spill clean-up is properly managed and disposed. The LOG-MSS or FOD Deployed Environmental Professional (DEP) can help coordinate spill response and clean-up activities and can complete the Spill Report form.

-Jillian Burain, Deployed Environmental Professional for LOG-MSS







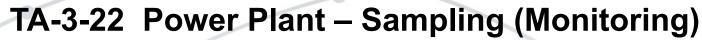
Sampler(s)

- Automated collection during storm events
- Monitoring for pollutants
 - Benchmark
 - Impaired Waters (Sandia Canyon)

Storm Drains (Outfalls)

- Sample/discharge points (automated & visual)
- Evaluated during inspections
- Each numbered for site map
- 3 monitored outfalls on site: Outfalls 005, 009, 012







Sampling parameters for TA-3-22 Power Plant

- There are two types of monitoring:
 - Benchmark (Quarterly)
 - Monitors for sectorspecific pollutants
 (i.e. metals)
 - Impaired Waters (Annual)
 - Monitors for pollutants associated with receiving water limits or impairments.

Sampling parameters for TA-5-22 Fower Flant							
Monitoring Type	Location	Parameters	Numeric Limitations	Schedule			
Benchmark Sector O Steam Electric Generating Facilities	Samplers: MSGP00501 Outfall #005 MSGP00901 Outfall #009 MSGP01201 Outfall #012 Sandia Canyon	Iron	1.0 mg/L	Quarterly			
Impaired	Impaired Waters Samplers: MSGP00501 Outfall #005 MSGP00901 Outfall #009 MSGP01201 Outfall #012 Sandia Canyon	Aluminum	681 ug/L	Annual			
Waters		Gross Alpha, adjusted	15 pCi/L				
		Copper	6 ug/L				
		Thallium, dissolved	0.47 ug/L				
		PCB in Water Column	0.00064 mg/L				



TA-3-22 Power Plant - SWPPP Inspections



Monthly Routine Inspections

- Performed by DEP with UI personnel, annual with EPC-CP
 - Check for non-compliance issues/identify corrective actions
 - (i.e. housekeeping, uncovered materials, spills/pollutant discharge, BMP integrity)

Quarterly Visual Inspections

- Performed during a storm event each quarter at each outfall (if possible)
 - Storm water sample collected in a clean, clear glass
 - Storm water sample evaluated for potential pollutants
 - (i.e. odor, oil sheen, suspended particles)
 - Additional BMPs may be required if pollutants are evident

Additional Reporting Requirements

- Annual reporting to EPA for corrective action status
- Quarterly Discharge Monitoring Report (DMR) for sample results
- Spill reporting to EPC-CP and potentially NMED if reportable



TA-3-22 Power Plant - Corrective Actions



MSGP Corrective Action Process

- Once identified immediate reporting to appropriate facility personnel
- Entered into CARs database/main-con. for EPC-CP reporting/tracking
- Specific deadlines for completion:
 - Same day or next day if identified late in the day or after regular business hours (quick fixes)
 - 14 days (order parts, schedule labor) >must provide schedule to EPC-CP
 - 45 days maximum (temporary BMPs required in the meantime)
 - >45 days: Report to EPC-CP for EPA is required (schedule must be provided for completion). EPA <u>must</u> approve schedule.
- FSRs with cost codes may be required
- Anyone can report not just inspector or EPC-CP
- Exceedances from sampling can trigger corrective actions, applicable to the same deadlines as noted above.



TA-3-22 Power Plant - SWPPP Documentation



- Required Documentation for SWPP Plan
 - Site Maps
 - Facility Specific
 - Receiving Waters
 - Endangered Species
 - Completed Inspection Forms & Templates
 - Annual Reporting Data
 - Notice of Intent (NOI) to EPA
 - Non-Storm Water Discharge Certification
 - Spill Tracking Table
 - Amendment Log
 - Sampling Results
 - Training Records
 - Critical Habitat Documentation/Historic Properties/NEPA
 - Procedures Referenced in the SWPPP



TA-3-22 Power Plant SWPPP Location & Contacts



- The SWPP Plan is updated annually and can be found online on the public reading room at:
 - <u>http://permalink.lanl.gov/object/tr?what=info:lanl-repo/lareport/LA-UR-17-20808</u>

Environmental Contacts:

- > Jillian Burgin, DESHS-UIS, DEP: 665-1893
- Leonard Sandoval, DESHS-UIS, DEP: 231-1235
- Russell Stone, DESHS-UIS, ESH Mgr.: 606-0017
 - Holly Wheeler, EPC-CP: 667-1312



TA-03-22 Power and Steam Plant

MSGP Stormwater Pollution Prevention Plan Revision 1, January 2020

ATTACHMENT 12: MSGP (OR ACTIVE URL)

A copy of the 2015 MSGP is kept on file with the SWPPP hard copy.

The active URL for the permit is: 2015 MSGP

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

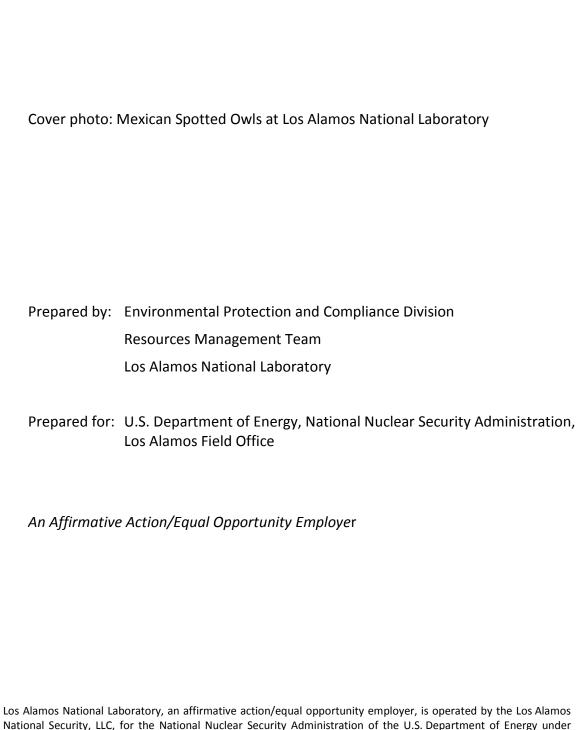
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October2017

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







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Contents

Ac	eronyms and Terms	vi
I.	Threatened and Endangered Species Habitat Management Plan General Overview	1
	1.0 Introduction	1
	2.0 Role of Site Plans in the HMP	
	3.0 Description of Areas of Environmental Interest	
	3.1 Definition and Role of Developed Areas in AEI Management	
	3.2 General Description of Buffer Areas and Allowable Buffer Area Development	
	3.3 Emergency Actions	
	4.0 Implementation of Site Plans	3
	4.1 Roles and Responsibilities	
	4.2 If an Activity Does 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	5
	1.0 Species Description—Mexican Spotted Owl	5
	1.1 Status	5
	1.2 General Biology	5
	1.3 Threats	6
	2.0 Impact of Human Activities	6
	2.1 Introduction	6
	2.2 Impacts on Habitat Quality	6
	2.2.1 Development	6
	2.2.2 Ecological Risk	7
	2.2.3 Disturbance	7
	2.2.3.1 Pedestrians and Vehicles	7
	2.2.3.2 Aircraft	
	2.2.3.3 Explosives	
	2.2.3.4 Other Sources of Noise	
	3.0 AEI General Description for Mexican Spotted Owl	
	3.1 Method for Identifying a Mexican Spotted Owl AEI	
	3.2 Location and Number of Mexican Spotted Owl AEIs	
	4.0 AEI Management	
	4.1 Overview	
	4.2 Definition and Role of Occupancy in AEI Management	12
	4.3 Introduction to AEI Management Guidelines	
	4.4 Definition of and Restrictions on Habitat Alterations	
	4.4.1 Definition of Habitat Alterations	
	4.4.2 Fuels Management Practices to Reduce Wildfire Risk	13
	4.4.3 Utility Corridors	

Threatened and Endangered Species Habitat Management Plan

4.4.4 Restrictions on Habitat Alterations	14
4.5 Definition of and Restrictions on Disturbance Activities	15
4.5.1 Definitions of Disturbance Activities	15
4.5.2 Activity Table	17
4.6 Protective Measures	17
5.0 Levels of Development in AEI Core and Buffers	18
5.1 Allowable Habitat Alteration in the Buffer Areas	
III. Area of Environmental Interest Site Plan for the Southwestern Willow Flycatcher	19
1.0 Species Description—Southwestern Willow Flycatcher	19
1.1 Status	
1.2 General Biology	19
1.3 Threats	20
2.0 Impact of Human Activities	20
2.1 Introduction	20
2.2 Impacts on Habitat Quality	21
2.2.1 Development	21
2.2.2 Ecological Risk	21
2.2.2.1 Ecorisk Assessment	21
2.2.3 Disturbance	22
2.2.3.1 Pedestrians and Vehicles	22
2.2.3.2 Aircraft	
2.2.3.3 Explosives	
2.2.3.4 Other Sources of Noise	
3.0 AEI General Description for the Southwestern Willow Flycatcher	
3.1 Method for Identifying the Southwestern Willow Flycatcher AEI	
3.2 Location of the Southwestern Willow Flycatcher AEI	
4.0 AEI Management	
4.1 Overview	
4.2 Definition and Role of Occupancy in AEI Management	
4.3 Introduction to AEI Management Guidelines	
4.4 Definition of and Restrictions on Habitat Alterations	
4.4.1 Definition of Habitat Alterations	24
4.4.2 Fuels Management Practices to Reduce Wildfire Risk	24
4.4.3 Utility Corridors	
4.4.4 Restrictions on Habitat Alterations	
4.5 Definition of and Restrictions on Disturbance Activities	
4.5.1 Definition of Disturbance Activities	
4.5.2 Activity Table	
4.6 Protective Measures	
5.0 Southwestern Willow Flycatcher AEI Description.	
5.1 Pajarito Canyon Southwestern Willow Flycatcher AEI	

Threatened and Endangered Species Habitat Management Plan

	5.1.1 Allowable Habitat Alteration in the Buffer Area	28
IV. Area	of Environmental Interest Site Plan for the Jemez Mountains Salamander	28
1.0	Species Description—Jemez Mountains Salamander	28
1.1	Status	28
1.2	General Biology	28
1.3	Threats	29
2.0	Impact of Human Activities	29
2.1	Introduction	29
2.2	Impacts on Habitat Quality	29
	2.2.1 Development	29
	2.2.2 Pedestrians and Vehicles	29
	2.2.3 Severe Wildland Fire and Wildfire Suppression	30
2.3	Impacts on Individual Salamanders	30
	2.3.1 Disease	30
	2.3.2 Destruction of Individual Salamanders	30
3.0	AEI General Description for the Jemez Mountains Salamander	30
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	32
4.3	Definition and Role of Developed Areas in AEI Management	32
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	33
	4.7.1 Definition of Habitat Alterations	33
	4.7.2 Fuels Management Practices to Reduce Wildfire Risk	34
	4.7.3 Utility Corridors	34
	4.7.4 Restrictions on Habitat Alterations	34
Reference	s Cited	35
APPEND	IX	40
Figures		
Figure 1.	Process flowchart for determining site plan requirements	3
Figure A-1	. Most recent map of all AEIs at LANL	
Tables		
Table 1.	Restrictions on Activities in Undeveloped Occupied Mexican Spotted Owl AEIs	
Table 2.	Restrictions on Activities in Undeveloped Occupied Southwestern Willow Flycatcher AEI	
Table A-1.	The Percentage of each Food Type Found in Mexican Spotted Owl Food Remains at LANL.	
Table A-2.	Preliminary Light Measurements in ftc for Mexican Spotted Owl Site Plan	40

ACRONYMS AND TERMS

AEI area of environmental interest

Bd Batrachochytrium dendrobatidis (Chytrid Fungus)

DARHT Dual-Axis Radiographic Hydrodynamic Test (Facility)

dB decibel

dB(A) A-weighted decibel

dB(C) C-weighted decibel

DDT (dichloro-diphenyl-trichloroethane)

DOE U.S. Department of Energy

ESA Endangered Species Act of 1973

fc foot candles

Field Office U.S. Department of Energy Los Alamos Field Office

FR Federal Register

GIS geographic information system

HMP Threatened and Endangered Species Habitat Management Plan

HVAC heating, ventilation, and air conditioning

LANL Los Alamos National Laboratory

LANS Los Alamos National Security, LLC

NEPA National Environmental Policy Act of 1969

PCBs polychlorinated biphenyls

TNT trinitrotoluene(2,4,6-)

USFWS U.S. Fish and Wildlife Service

I. THREATENED AND ENDANGERED SPECIES HABITAT MANAGEMENT PLAN GENERAL OVERVIEW

1.0 Introduction

Los Alamos National Laboratory's (LANL) Threatened and Endangered Species Habitat Management Plan (HMP) fulfills a commitment made to the U.S. Department of Energy (DOE) in the "Final Environmental Impact Statement for the Dual-Axis Radiographic Hydrodynamic Test Facility Mitigation Action Plan" (DOE 1996). The HMP received concurrence from the U.S. Fish and Wildlife Service (USFWS) in 1999 (USFWS consultation numbers 2-22-98-I-336 and 2-22-95-I-108). This 2017 update retains the management guidelines from the 1999 HMP for listed species, and updates some descriptive information.

2.0 Role of Site Plans in the HMP

The purpose of the HMP is to provide a management strategy for Endangered Species Act (ESA) compliance through the protection of threatened and endangered species and their habitats on LANL property. The HMP consists of site plans for federally listed threatened or endangered species with a moderate or high probability of occurring at LANL. The following federally listed threatened or endangered species currently have site plans at LANL: Mexican Spotted Owl (*Strix occidentalis lucida*), Southwestern Willow Flycatcher (*Empidonax trailii extimus*), and Jemez Mountains Salamander (*Plethodon neomexicanus*). Site plans provide guidance to ensure that LANL operations do not adversely affect threatened or endangered species or their habitats.

The Black-footed Ferret (*Mustela nigripes*) is federally listed as endangered. However, no sightings of Black-footed Ferrets have been reported in Los Alamos County for more than 50 years. In addition, no large prairie dog towns, prime habitat for Black-footed Ferrets, have been observed at LANL. Therefore, there is no site plan for this species.

The New Mexico Meadow Jumping Mouse (*Zapus hudsonius luteus*) and Yellow-billed Cuckoo (*Coccyzus americanus*) do not require a site plan because they do not have breeding habitat on LANL property. In Keller (2015), it was concluded that if any LANL work activities might affect habitat for these two species, those activities would be reviewed for impacts.

3.0 Description of Areas of Environmental Interest

Suitable habitats for federally listed threatened and endangered species have been designated as areas of environmental interest (AEIs). AEIs are geographical units at LANL that are managed for the protection of federally listed species and consist of core habitat areas and buffer areas. The purpose of the core habitat is to protect areas essential for the existence of the specific threatened or endangered species. This includes the appropriate habitat type for breeding, prey availability, and micro-climate conditions. The purpose of buffer areas is to protect core areas from undue disturbance and habitat degradation.

Site plans identify restrictions on activities within the AEIs. The USFWS reviewed allowable activities and provided concurrence that these activities are not likely to adversely affect federally listed species. Activities discussed in site plans include day-to-day activities causing

disturbance (hereafter referred to as "disturbance activities"), such as access into an AEI, and long-term impacts, such as habitat alteration.

3.1 Definition and Role of Developed Areas in AEI Management

Developed areas include all building structures, paved roads, improved gravel roads, paved and unpaved parking lots, and firing sites. The extent of developed areas in each AEI was determined using two methods. First, LANL geographic information system (GIS) analysts placed a 15-m (49-ft) border around all buildings and parking lots. For paved and improved gravel roads, the developed area was defined as the area to a roadside fence, if one exists within 9 m (30 ft) of the road, or 5 m (15 ft) on each side of the road if there is no fence within 9 m (30 ft). If an area of highly fragmented habitat was enclosed by roads, a security fence, or connected buildings, that area was also classified as developed. Developed areas at firing sites were defined as a circle with a 91-m (300-ft) radius from the most centrally located firing pad. Second, LANL GIS analysts overlaid scanned orthophotos onto a map of the Los Alamos area and digitized all areas that appeared developed. These two information sources were overlaid and combined, so that areas classified as developed by either method were considered developed in final maps and analyses. Some areas were confirmed by ground surveys, such as the firing sites.

Developed areas occur in the core and/or buffer of all AEIs. However, developed areas do not constitute suitable habitat for federally listed species. Current ongoing activities in developed areas constitute a baseline condition for the AEIs and are not restricted. New activities, including further development within already existing developed areas, are not restricted unless they impact undeveloped portions of an AEI core. For example, if light or noise from a new office building in a developed area were to raise levels in an undeveloped core area, those light and noise levels would be subject to the guidelines on habitat alterations.

3.2 General Description of Buffer Areas and Allowable Buffer Area Development

The purpose of buffer areas is to protect core areas from undue disturbance or habitat degradation. The current levels of development in buffer and core areas represent baseline conditions for this HMP. No further development is allowed in the core area under the guidelines of this HMP. A limited amount of development is allowed in buffer areas. Under the guidelines of this HMP, individual development projects are limited to 2 ha (5 ac) in size, including a 15-m (49-ft) developed-area border around structures and a 5-m (15-ft) developed-area border around paved and improved gravel roads. Projects greater than 2 ha (5 ac) in size require individual review for ESA compliance (see exceptions for fuels management activities and utility corridor maintenance). New development projects in AEI buffer areas must be reported to Los Alamos National Security, LLC (LANS) biologists for tracking (http://int.lanl.gov/environment/bio/controls/index.shtml).

3.3 Emergency Actions

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

the Emergency Management Office (505-667-6211); this office will then communicate with the appropriate LANL and DOE Field Office personnel.

4.0 Implementation of Site Plans

4.1 Roles and Responsibilities

LANL's facility managers and operational staff are responsible for ensuring that activities are reviewed for compliance with all applicable site plans. Figure 1 illustrates the process for utilizing site plans. If activities follow approved guidance, there is no requirement for additional ESA regulatory compliance. However, additional National Environmental Policy Act (NEPA), cultural resources, wetlands, or other regulatory compliance actions may be required.

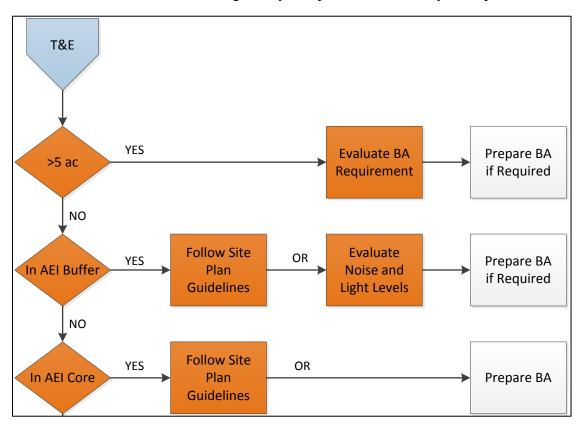


Figure 1. Process flowchart for determining site plan requirements

If an activity or project occurs outside of all LANL AEIs and will not impact habitat within an AEI, it does not have to be reviewed for ESA compliance unless it is a large project. Projects that are larger than 2 ha (5 ac) or cost more than \$5 million require an individual ESA compliance review, even if they are not located within an AEI.

LANL's facility managers are responsible for determining if operations within their geographic and/or programmatic area of responsibility comply with the guidelines in these site plans. Submission of a project into the integrated review tool for a new or modified project is required under Program Description 400 (LANL 2016) and allows managers to identify the requirements within their project area. Deployed environmental professionals and core LANS biologists are

available to support facility managers. If activities follow site plan guidelines, they do not require any additional ESA regulatory compliance action. However, NEPA, cultural resources, wetlands, or other regulatory compliance actions are not addressed in site plans and additional compliance actions may be required. It is the responsibility of the project leader or facility management staff to ensure that all requirements are satisfied. If you have questions, contact biological, cultural, NEPA, or other environmental subject matter experts. Contacts can be found at http://int.lanl.gov/environment/compliance/ier/index.shtml.

A single facility may have one or more AEIs within its boundary and the AEIs may be for different species. Some AEIs overlap. In areas where overlap occurs, project managers must follow the guidelines for AEIs of all involved species.

4.2 If an Activity Does Not Meet Site Plan Guidelines

If a project reviewer determines that an activity or project cannot meet the guidelines in applicable site plans, LANS biologists evaluate that activity individually for compliance with the ESA. Results of the evaluation of potential impacts allow LANS biologists to make recommendations to the DOE Field Office Biological Resources Program Manager regarding the need for USFWS consultation. An evaluation may result in 1) a DOE Field Office determination that there is no effect and the activity can proceed, 2) a DOE Field Office suggestion for modifications of the action to avoid adverse effects so that it can proceed, or 3) a DOE Field Office decision to prepare a biological assessment for the activity and submit it to the USFWS for concurrence. Fieldwork and preparation of a biological assessment can take a few months with an additional 2 to 12 months for DOE Field Office review and then final USFWS concurrence.

4.3 Dissemination of Information

Habitat locations of threatened and endangered species are not considered sensitive; however, it is in the best interest of threatened and endangered species to restrict specific knowledge about their locations.

5.0 Changes in the HMP since Implementation

The HMP received concurrence from USFWS and was first implemented in 1999. Since that time, both the Peregrine Falcon (*Falco peregrinus*) and the Bald Eagle (*Haliaeetus leucocephalus*) have been delisted. Site plans for those species have been removed from LANL's HMP. Both species are protected at LANL under the Migratory Bird Treaty Act, and the Bald Eagle is also protected under the Bald and Golden Eagle Protection Act.

In 2005, the USFWS concurred with DOE's proposal for updated Mexican Spotted Owl habitat boundaries based on a revised analysis of Mexican Spotted Owl habitat quality within DOE property around LANL (USFWS consultation number 22420-2006-I-0010).

In 2012, the USFWS concurred with DOE's proposal to modify the habitat boundaries for the Los Alamos Canyon Mexican Spotted Owl AEI due to changes from the fire response activities after the Las Conchas wildfire (USFWS consultation number 02ENNM00-2012-IE-0088).

In 2013, the USFWS concurred with the DOE's new site plan for the Jemez Mountains Salamander and its addition to LANL's HMP (USFWS consultation number 02ENNM00-2014-I-0014).

In 2015, the USFWS concurred with the DOE's addition of the New Mexico Meadow Jumping Mouse and Yellow-billed Cuckoo to LANL's HMP (USFWS consultation number 02ENNM00-2015-I-0538).

In 2017, the USFWS concurred with DOE's proposal to modify the habitat boundaries for the lower section of Water Canyon Mexican Spotted Owl AEI due to habitat degradation resulting from long-term drought and fire effects (USFWS consultation number 02ENNM00-2017-I-0255).

6.0 Data Management

The data used in the implementation of the HMP are stored in a geodatabase at LANL. The current map of all of the AEIs at LANL is in Figure A-1 in the appendix.

II. AREA OF ENVIRONMENTAL INTEREST SITE PLAN FOR THE MEXICAN SPOTTED OWL

1.0 Species Description—Mexican Spotted Owl

1.1 Status

In 1993, the USFWS determined the Mexican Spotted Owl to be a threatened species under the authority of the ESA, as amended (58 Federal Register [FR] 14248). In 1995, the USFWS released its final recovery plan for the owl (USFWS 1995), which was revised in 2012 (USFWS 2012). The USFWS most recently designated critical habitat for Mexican Spotted Owl in 2004 (69 FR 53181).

1.2 General Biology

The Mexican Spotted Owl is found in northern Arizona, southeastern Utah, and southwestern Colorado south through New Mexico, west Texas, and into Mexico. It is the only subspecies of Spotted Owl recognized in New Mexico (USFWS 1995).

The Mexican Spotted Owl generally inhabits mixed conifer and ponderosa pine- (*Pinus ponderosa*; Lawson & C. Lawson) Gambel oak (*Quercus gambelli*; Nutt.) forests in mountains and canyons. High canopy closure, high stand diversity, multilayered canopy resulting from an uneven-aged stand, large mature trees, downed logs, snags, and stand decadence as indicated by the presence of mistletoe are characteristics of Mexican Spotted Owl habitat. Some owls have been found in second-growth forests (i.e., younger forests that have been logged); however, these areas were found to contain characteristics typical of old-growth forests. Mexican Spotted Owls in the Jemez Mountains prefer cliff faces in canyons for their nest sites (Johnson and Johnson 1985). The recovery plan for the Mexican Spotted Owl recommends that mixed conifer and pine-oak woodland types on slopes greater than 40 percent be protected for the conservation of this owl.

A mated pair of adult Spotted Owls may use the same home range and general nesting areas throughout their lives. A pair of owls requires approximately 800 ha (1,976 ac) of suitable nesting and foraging habitat to ensure reproductive success. Incubation is carried out by the female. The incubation period is approximately 30 days and most eggs hatch by the end of May. Most owlets fledge in June, 34 to 36 days after hatching (USFWS 1995). The owlets are "semi-independent" by late August or early September, although juvenile begging calls have been heard as late as September 30. Young are fully independent by early October. The non-breeding season runs from September 1 through February 28. Although seasonal movements vary among owls, most adults remain within their summer home ranges throughout the year.

The diet of Mexican Spotted Owls nesting in canyons consists primarily of woodrats (*Neotoma* spp.) and deermice (*Peromyscus* spp.) with lesser amounts of rabbits, birds, reptiles, and arthropods (Willey 2013). The relative abundance of prey types in Mexican Spotted Owl pellets collected at LANL are listed in Table A-1 in the appendix. Ganey and Balda (1994) found core areas of individuals (i.e., where owls spent 60 percent of their time) averaged 134 ha (331 ac), and core areas for pairs averaged 160 ha (395 ac).

1.3 Threats

The Mexican Spotted Owl was listed as threatened because of destruction and modification of habitat caused by timber harvest, wildfires, increased predation on owls associated with habitat fragmentation, and a lack of adequate protective regulations.

2.0 Impact of Human Activities

2.1 Introduction

The primary threats to Mexican Spotted Owls on LANL property are 1) impacts to habitat quality from LANL operations and 2) disturbance of nesting owls. This section provides a review and summary of scientific knowledge of the effects of various types of human activities on the Mexican Spotted Owl and provides an overview of the current levels of activities at LANL.

2.2 Impacts on Habitat Quality

2.2.1 Development

The type of habitat used by Mexican Spotted Owls, late seral stage forests with large trees, is usually not found in large quantities near developed areas or near areas that have had recent agricultural or forest product extraction land uses. Therefore, Mexican Spotted Owls are generally not found near developments. Whether it is the development or a lack of suitable habitat that discourages colonization of these areas by Mexican Spotted Owls is unknown.

Areas of LANL vary from remote, undeveloped areas to heavily developed and/or industrialized facilities. Most LANL facilities are situated atop mesas, primarily in the northern and western portion of the DOE property. LANL is bounded by developed residential, industrial, and retail areas along its northern boundary (the town of Los Alamos) and by residential and retail development along a portion of its eastern boundary (the town of White Rock). Three major paved roads traverse LANL from northeast to southwest. Sandia, Pajarito, and Los Alamos canyons have paved roads within AEIs, and several AEIs have dirt roads along at least a portion

of the canyon bottom. AEIs containing paved or dirt roads in the canyon bottoms have not been occupied at LANL (Hathcock et al. 2010).

2.2.2 Ecological Risk

There is no specific information on the impact of chemicals on the Mexican Spotted Owl, although experience with other raptor species suggests that exposure to polychlorinated biphenyls (PCBs), dichloro-diphenyl-trichloroethane (DDT) and its derivatives, and other organophosphate or organochlorine pesticides would probably be harmful. Exposure to other chemicals could also be harmful (Cain 1988).

LANS subject matter experts completed three ecological risk assessments that included the Mexican Spotted Owl between 1997 and 2009. The ecological risk assessment process involves using computer modeling to assess potential effects to animals from chemicals of potential concern that have been detected in the environment. All of the following ecological risk assessments concluded that, on average, no appreciable impact is expected to Mexican Spotted Owls from chemicals of potential concern (Gallegos et al. 1997; Gonzales et al. 2004; Gonzales et al. 2009).

2.2.3 Disturbance

2.2.3.1 Pedestrians and Vehicles

Based on work with other raptors, LANS biologists assume that Mexican Spotted Owls would likely be disturbed by the approach of either pedestrians or vehicles. At an equal distance, pedestrians are frequently more disturbing to raptors than vehicles (Grubb and King 1991). Brown and Stevens (1997) reported that during surveys in Grand Canyon National Park, 22 times more Bald Eagles were found in canyon reaches with low human recreational use compared to reaches with moderate to high human recreational use. Human activity 100 m (328 ft) from Bald Eagle nests in Alaska caused clear and consistent changes in behavior of breeding eagles (Steidl and Anthony 2000).

Swarthout and Steidl (2001) found that both juvenile and adult roosting Mexican Spotted Owls were unlikely to alter their behavior in the presence of a single hiker at distances greater than 55 m (180 ft). Swarthout and Steidl (2003) concluded that cumulative effects of high levels of short-duration recreational hiking near Mexican Spotted Owl nests may be detrimental.

Many canyon bottoms and mesa tops at LANL have dirt roads traversing them. Most of these roads are gated; however, these roads are accessible to LANL employees and some of them are accessible to the public on foot or by bike. LANS biologists found that AEIs are occupied less often if there is recreational access into a canyon (Hathcock et al. 2010).

2.2.3.2 Aircraft

Ground-based disturbances appear to impact raptor reproductive success more than aerial disturbances (Grubb and King 1991). Grubb and Bowerman (1997) concluded that an exclusion of aircraft within 600 m (1,968 ft) of Bald Eagle nest sites would limit Bald Eagle response frequency to 19 percent.

Delaney et al. (1999) found that for Mexican Spotted Owls, chainsaws consistently elicited higher response rates than helicopters at similar distances. Owl flush rates did not differ between nesting and non-nesting seasons. No owls flushed when noise stimuli (helicopter or chainsaws) were at distances greater than 105 m (344 ft). Distance was generally a better predictor of owl response to helicopter overflights than sound level.

LANL is restricted airspace and planes infrequently fly less than 609 m (2,000 ft) above ground level. The County of Los Alamos operates an airport along the northern edge of LANL. The airport is located on the southern rim of Pueblo Canyon. Most flights approach and depart to the east of the airport, over the Rio Grande.

2.2.3.3 Explosives

There is currently no specific information available on the reaction of Mexican Spotted Owls to explosives detonation. Explosive blasts set off 120 to 140 m (393 to 459 ft) from active Prairie Falcon (*Falco mexicanus*) nests caused perched Prairie Falcons to flush from perches 79 percent of the time, and, in 26 percent of the cases, caused incubating Prairie Falcons to flush from nests. Measured sound levels at aerie entrances during blasts ranged from 129 to 141 decibel (dB) (Holthuijzen et al. 1990). Explosives blasting for dam construction 560 to 1,000 m (1,837 to 3,280 ft) from active Prairie Falcon nests caused a change in behavior 26 percent of the time, and birds flushed in 17 percent of all cases. No incubating birds flushed (Holthuijzen et al. 1990). Brown et al. (1999) found little activity change in roosting or nesting Bald Eagles and no population-level impacts from weapons detonations at the Aberdeen Proving Ground. Holthuijzen et al. (1990) found that a 167-g (5.89-oz) charge of Kinestik produced noise levels between 138 and 141 dB at 100 m (328 ft), and that a 500-g (17.6-oz) charge of trinitrotoluene(2,4,6-) (TNT) produced noise levels between 144 and 146 dB at 100 m (328 ft). A 20-kg (44-lb) charge of TNT produced noise levels that measured 163 dB at 100 m (328 ft) (Paakkonen 1991).

Measurements of noise levels during explosives testing were conducted at three locations at LANL using quantities of high explosives ranging from 4.5 to 67.5 kg (10 to 148 lb) of TNT during six shots. Noise levels increased during the test from a background level of 31 A-weighted decibel [dB(A)]¹ to a range between 64 and 71 dB(A) during shots at a distance of 1.8 km (1.1 mi). At a distance of 4.3 km (2.67 mi), noise levels rose from a background range of 35 to 64 dB(A) to a range of 60 to 63 dB(A) (Vigil 1995). At a distance of 6.7 km (4.16 mi), noise levels rose from a background range of 38 to 51 dB(A) to a range of 60 to 71 dB(A) (Burns 1995). LANS biologists estimated that the noise from a shot at the Dual-Axis Radiographic Hydrodynamic Test (DARHT) Facility would be 150 dB(A) at the source and 80 dB(A) at 400 m (1,312 ft) (Keller and Risberg 1995). LANS biologists found that Mexican Spotted Owl AEIs located within the explosives testing buffer area were occupied more frequently than AEIs in other locations (Hathcock et al. 2010). This is likely due to the strict access control in explosives areas that limit human activity and development in the canyon bottoms.

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

2.2.3.4 Other Sources of Noise

Major noise-producing activities at LANL include automobile and truck traffic and noise associated with office buildings, construction activities, a live-fire range, and explosives testing. Noise is also associated with aircraft traffic at the Los Alamos County airport. Construction and maintenance activities involved with operations at LANL are fairly common. In addition, implementation of the 2016 Compliance Order on Consent issued by the New Mexico Environmental Department has resulted in an increased frequency of drilling groundwater monitoring wells in protected habitat at LANL. Also, forest fuels management operations use chainsaws, chippers, and other noise-generating equipment. The 2010 National Pollutant Discharge Elimination System Individual Permit (EPA 2010) issued by the Environmental Protection Agency requires sediment control features such as berms and small rock check dams to be installed at various sites with stormwater runoff; these are sometimes installed in protected habitat. LANS biologists conducted a study of noise levels in canyons and found that the primary sources of noise exceeding 55 dB(A) were cars and trucks. Readings taken near flowing water were up to 11 dB(A) higher than readings taken elsewhere. The average dB(A) in canyons near paved roads ranged from 41 to 62, with maximum values ranging from 62 to 74. Away from paved roads 1.6 km (1 mi) or more, average dB(A) in canyons ranged from 37 to 50, with all but one average below 45. Maximum dB(A) away from paved roads ranged from 38 to 76, 76 dB(A) was measured during a thunder clap (Huchton et al. 1997).

In December 1997, LANS biologists conducted noise measurements at the Los Alamos County airport and in Bayo and Pueblo canyons, including the Los Alamos County Sewage Treatment Facility. Sound levels near the airport runway during the maximum use time (6:30 to 7:30 am) had background values averaging 54 dB(A). Noise during plane arrivals ranged from 47 to 63 dB(A). No measurements were collected during plane take-off. Sound measurements conducted in the bottoms of Pueblo and Bayo canyons ranged from 37 to 40 dB(A) in most areas of the canyon. At the sewage treatment facility parking lot during a working day, the average dB(A) during a 3-minute period was 46 (range 45 to 49). At the intersection of the road going into Pueblo Canyon with State Road 502, the average dB(A) during a 3-minute period was 60 (range 41 to 70).

LANS biologists conducted sound measurements at successive distances from an industrial area near a canyon rim, into the canyon, and to the opposite rim, using a C-weighted decibel (dB(C) scale (Keller and Foxx 1997). Measurements of noise levels using the dB(C) scale are greater than if measured using the dB(A) scale. The average background noise on the mesa was 65.8 dB(C) [with a range of 43–81 dB(C)]. The average background noise in the canyon bottom was 62.3 dB(C) [with a range of 54–78 dB(C)]. The average background noise at the bottom of the north-facing slope was 53.8 dB(C) [with a range of 48–64 dB(C)]. Measurements were taken mid-day.

LANS biologists measured sound levels from various pieces of construction equipment used at LANL project sites over 5-minute intervals at distances of 6 to 31 m (20 to 100 ft) (Knight and Vrooman 1999). Average values ranged from 58.5 to 80.9 dB(A). Peak values ranged from 75.7 to 155.4 dB(A). Additional data were collected by other LANL operators on specific pieces of construction equipment and on the Security Computer Complex construction site fence perimeter at Technical Area 3 before and during construction (Knight and Vrooman 1999). The average

noise level before construction began was 56.6 dB(A), and the average during construction was 82.1 dB(A).

LANS biologists conducted a series of sound measurements at LANL to investigate background noise levels around AEIs (Vrooman et al. 2000). Background noise levels were significantly higher in daytime than in nighttime. AEIs with greater than a 10 percent developed area in their buffers had significantly higher levels of background noise than undeveloped AEIs. The mean background sound level was 51.3 dB(A) in developed AEIs and 39.6 dB(A) in undeveloped AEIs. The LANL biological resources project review process uses the individual AEI background measurements from Vrooman et al. (2000) to screen project activities for increases more than 6 dB(A) above background.

LANS biologists took sound level measurements of heavy equipment use associated with concrete recycling on Sigma Mesa at LANL in 2004 (Hansen 2004). At this location, background noise levels at two different locations were 55.2 and 58.8 dB(A). Operation of a dump truck hauling and dumping concrete increased noise levels above background by a mean of 22.7 dB(A) at 30 m (98 ft) and 2.4 dB(A) at 80 m (262 ft). Additional sound level measurements were taken in the same general area on Sigma Mesa in 2005 as part of a biological assessment for the operation of an asphalt batch plant (Hansen 2005). Measurements were taken on the north rim of Mortandad Canyon (south of the asphalt batch plant at distances of approximately 30 to 122 m (100 to 400 ft), at the bottom of Mortandad Canyon approximately 183 to 244 m (600 to 800 ft) from the asphalt batch plant, and on the south rim of Mortandad Canyon approximately 305 m (1,000 ft) from the asphalt batch plant. Background noise levels at the various locations ranged from 41.1 to 48.7 dB(A). The only locations with increases greater than 3 dB(A) during operation of the asphalt batch plant 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.

LANS biologists took sound level measurements around the LANL Biosafety Level 3 laboratory with the heating, ventilation, and air conditioning (HVAC) system on and with it off (Hansen 2009). The area to the north of the Biosafety Level 3 laboratory is developed, the area to the south is not. Background noise levels north of the facility ranged from 53.6 to 57.6 dB(A). Background noise levels south of the facility ranged from 41.6 to 49.7 dB(A). Noise from the HVAC system was detected at 25 m (82 ft) from the facility on both sides, but was not detected at 81 m (266 ft) on the north side, or at 107 m (351 ft) on the south side.

Overall, these studies appear to show that areas adjacent to or within developed areas or paved roads are likely to have daytime average background noise levels between 45 and 63 dB(A). Less disturbed areas are likely to have average background noise levels between 37 and 50 dB(A).

2.2.3.5 Artificially Produced Light

There is no information available on the effects of artificially produced light on Mexican Spotted Owls. Under the Los Alamos County Code, commercial site development plans are reviewed to ensure that lighting serves the intended use of the site while minimizing adverse impacts to adjacent residential property (Section 16-276). Section 16-276 of the County Code includes light source measurement limitations by zoning district. The code allows off-site light to be 0.5 foot candles (fc) in residential areas. By comparison, full moonlight measures 0.1 fc, and a crescent

moon was measured at 0.01 fc. Table A-2 in the appendix presents preliminary light measurements in fc.

Preliminary surveys were conducted for light levels within Los Alamos Canyon at the Omega Reactor (Keller and Foxx 1997). The Omega Reactor was brightly lit for purposes of security; therefore, total light intensity was greater than the average street lighting. Measurements were conducted at a light pole in an open parking lot at the reactor as the source. Trees did not obscure the area. Using the relationship of light intensity reducing as a square of the distance, calculations using the field data indicated that at 30 m (98 ft) from the source, the light levels would be equivalent or nearly equivalent to full moonlight.

3.0 AEI General Description for Mexican Spotted Owl

An AEI consists of two areas—a core and a buffer. The core of the habitat is defined as suitable canyon habitat from rim to rim and 100 m (328 ft) out from the top of the canyon rim. The buffer area is 400 m (1,312 ft) wide extending outward from the edge of the core area. Although adult Mexican Spotted Owls may be found within their home range anytime throughout the year, the primary threat from disturbance to the owls is during the breeding season when owl pairs are tied to their nest sites. Therefore, management of disturbance in Mexican Spotted Owl AEIs is concentrated on the breeding season.

3.1 Method for Identifying a Mexican Spotted Owl AEI

The original location of each Mexican Spotted Owl AEI was identified using a habitat model developed by Johnson (1998) that classified nesting and roosting habitat for Mexican Spotted Owls using topographic characteristics and vegetative diversity. LANS biologists compared the results from the Johnson (1998) model to a different model identifying slopes >40 percent in mixed conifer and ponderosa pine cover types at LANL. Areas identified from the Johnson (1998) model application to LANL that were over five contiguous 30×30 m (97 × 98 ft) pixels in size, were above 1,980 m (6,496 ft) in elevation, and that had mixed conifer or ponderosa pine forest cover, were considered suitable Mexican Spotted Owl habitat. Where suitable habitat was identified, AEI core area boundaries were established to include the canyons and 100 m (328 ft) outward from the canyon rims.

An updated Mexican Spotted Owl habitat model was developed and refined for application on LANL property following the Cerro Grande wildfire (Hathcock and Haarmann 2008). This model incorporated finer-scale vegetation characteristics into the Mexican Spotted Owl habitat quality assessment. This model was used to redelineate the boundaries of the Mexican Spotted Owl AEIs at LANL in 2005 following wildfire, drought, and a regional bark beetle outbreak (USFWS consultation number 22420-2006-I-0010).

The new core boundaries were delineated with an area approximately 0.4 km (0.25 mi) from the edge of the nearest suitable habitat, up and down canyon. Core boundaries were established along readily recognizable geologic features or anthropogenic features in the terrain wherever possible to facilitate the ease of identification of core boundaries when in the field.

3.2 Location and Number of Mexican Spotted Owl AEIs

There are currently five Mexican Spotted Owl AEIs on LANL property, each encompassing one or more canyons. In general, the AEI cores are centered in canyons on the western side of LANL. The canyons with AEIs are Cañon de Valle, Water, Pajarito, Los Alamos, Sandia, Mortandad, and Three-Mile.

4.0 AEI Management

4.1 Overview

This AEI management section provides guidelines for LANL operations to reduce or eliminate the threats to Mexican Spotted Owls from 1) habitat alterations that reduce habitat quality and 2) disturbance of breeding or potentially breeding owls. Habitat alterations are considered for all AEIs and for both core and buffer areas. Disturbance activities to owls are considered only for occupied AEIs and only for impacts on core areas. Developed areas (see Part I, Section 3.1) that have ongoing baseline levels of activities and are not suitable habitat for Mexican Spotted Owls have different restrictions than undeveloped core or buffer areas. Therefore, the location of the disturbance activity within the AEI, the occupancy status of the AEI, and the type of activity all affect whether or not the activity is allowable. AEIs for different species may overlap, and an activity must meet the guidelines of all applicable site plans to be allowable.

4.2 Definition and Role of Occupancy in AEI Management

Occupancy simply refers to whether or not an AEI is occupied during a species' period of sensitivity. For Mexican Spotted Owls, the primary concern is to protect the owls from disturbance during the breeding season. Because individuals may colonize suitable habitat, all Mexican Spotted Owl AEIs are treated as though they are occupied from March 1 through August 31 or until surveys show an AEI to be unoccupied. Mexican Spotted Owl surveys are conducted from late March through June. In general, surveys in areas with ongoing or proposed projects are completed by May 15. If a nest is located during surveys, then the AEI can be treated as unoccupied except for the area within a 400 m (1,312 ft) radius of the nest site. Because owls are not as sensitive to disturbance during the non-breeding season, Mexican Spotted Owl AEIs are treated as unoccupied from September 1 to February 28.

The occupancy status of an AEI affects what activities are allowable in the AEI. Although activities causing habitat alterations are restricted in all AEIs, disturbance activities are restricted only in occupied AEIs. The Activity Table (Table 1, Section 4.5.2) provides dates and levels of allowable disturbance activities within occupied Mexican Spotted Owl AEIs under the guidelines of this site plan. Contact a LANS biologist to find out the current occupancy status of an AEI (http://int.lanl.gov/environment/bio/controls/index.shtml).

4.3 Introduction to AEI Management Guidelines

Sections 4.4 and 4.5 provide the guidelines for habitat alterations and allowable activities in AEI core and buffer areas. Section 4.4 describes what and where habitat alterations are allowed under the guidelines of this site plan. Section 4.5 describes what, when, and where disturbance activities are allowed in occupied AEIs under the guidelines of this site plan. If an activity does not meet the restrictions given in the guidelines, the activity must be individually reviewed for

ESA compliance. This site plan only provides guidelines for Mexican Spotted Owl AEIs. If an activity is desired in an area with overlapping AEIs, all applicable site plans must be consulted. AEI maps show the location of all AEIs in an area. Section 4.6 describes management practices that should be applied when working or considering work in an AEI. LANS biologists are available to answer questions and provide advice (http://int.lanl.gov/environment/bio/controls/index.shtml).

4.4 Definition of and Restrictions on Habitat Alterations

4.4.1 Definition of Habitat Alterations

Habitat alteration includes any action that alters the soil structure, vegetative components necessary to the species, prey quality and quantity, water quality, hydrology, or noise or light levels in undeveloped areas of an AEI. Long term means the alteration lasts for more than one year. For physical disturbances, in general, any activity that can be accomplished by one person with a hand tool is generally not considered habitat alteration; any activity that requires mechanized equipment on a landscape is habitat alteration. An actual activity may take place outside of the AEI and will be considered habitat alteration if consequences of the activity have effects inside the AEI core.

The habitat components most important to Mexican Spotted Owls include vegetative structure, food quality and quantity, and disturbance levels, including noise and light. The forest structure within a canyon designated as a Mexican Spotted Owl AEI is important because it provides roost sites and a suitable habitat for nesting and foraging. Trees along the canyon rim are used for foraging and territorial calling, and they shelter the canyon interior from light and noise disturbances.

A long-term change in light or noise levels within the undeveloped core of an AEI is considered to be a habitat alteration if it increases average noise levels by ≥ 6 dB(A) during any portion of the 24-hour day, or 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 cm (9 in) diameter at breast height, treatment of fuels, and prescribed and natural prescribed fires are allowed. Exceptions allowing trees >22 cm (9 in) to be thinned within 30 m (100 ft) of buildings are granted to protect facilities. Large logs (>30 cm [11.8 in] midpoint diameter) and snags should be retained. Thinning within core areas not meeting the characteristics listed above, and in buffer areas, may include trees of any size to achieve 8 m (25 ft) spacing between tree crowns. However, clear cutting is not allowed in undeveloped core areas.

For health and safety reasons, any trees within 30 m (100 ft) of buildings, but outside a developed area, may be thinned to achieve 8 m (25 ft) spacing between crowns. Habitat alterations including thinning are not restricted in developed areas. However, LANS biologists encourage the retention of trees and snags along canyon rims if the rim is in a developed area. Because of the extreme fire danger associated with firing sites and the potential impact of a fire on Mexican Spotted Owl habitat, firing sites and burn areas are treated separately for the purposes of fuels management. Trees within 380 m (1,246 ft) of firing sites and burn areas in both core and buffer areas may be thinned to a 15 m (49 ft) spacing between trees everywhere except on slopes >40 percent or in the bottoms of steep canyons. Any tree over 22 cm (9 in) diameter at breast height within 380 m (1,246 ft) of a firing site may be delimbed to a height of 2 m (6 ft) to help prevent crown fires.

In historically occupied core areas, fuels treatment may not exceed 10 percent of the undeveloped core area and is not allowed within 400 m (1,312 ft) of nesting areas. In occupied core areas, forest management activities must take place during the nonbreeding season (September 1 to February 28) (USFWS 1995). Fuels management activities that are allowable in core areas must be reported to LANS biologists for tracking (http://int.lanl.gov/environment/bio/controls/index.shtml).

4.4.3 Utility Corridors

Habitat alterations such as cutting down trees that threaten power lines are allowed within 8 m (26 ft) of either side of an existing utility line in all areas of an AEI (Trujillo and Racinez 1995). New utility lines and utility lines requiring clearance of a right-of-way greater than 16 m (52 ft) total must be individually reviewed for ESA compliance. Disturbance activities must follow the guidelines given in the Activities Table (Table 1, Section 4.5.2) for occupied AEIs.

4.4.4 Restrictions on Habitat Alterations

Habitat alterations other than the fuels management practices and utility corridor maintenance described above are not allowed in undeveloped core areas under the guidelines of this site plan. If a project or activity is planned that would alter habitat in an undeveloped core area, it must be individually evaluated for ESA compliance. Habitat alterations in undeveloped buffer areas other than the fuels management activities and utility corridor maintenance described above are restricted to 2 ha (5 ac) in area per project and are subject to other restrictions including light and noise effects in the core (see Section 2.2.3). Projects in the buffer area over 2 ha (5 ac) in size will require individual ESA compliance review.

Habitat alterations in a buffer area other than the fuels management and utility corridor maintenance described above must be reported to LANS biologists for tracking (http://int.lanl.gov/environment/bio/controls/index.shtml). There is a cumulative maximum area that can be developed in each AEI's buffer. Once that cumulative area is reached, all habitat alterations in a buffer will require individual ESA reviews for compliance.

4.5 Definition of and Restrictions on Disturbance Activities

4.5.1 Definitions of Disturbance Activities

LANS biologists considered six categories of activities that might cause disturbance in an AEI. Most of the categories were first identified in the document "Peregrine Falcon Habitat Management in the National Forests of New Mexico," prepared for the United States Forest Service (Johnson 1994). LANS biologists added explosives detonation, other light production, and other noise production to provide the most comprehensive list of activities possible, thereby reducing the need for individual review of activities for ESA compliance. The categories of activities are people, vehicles, aircraft, other light production, other noise production, and explosives detonation. LANS biologists defined low, medium, and high levels of impact for these activities except for explosives detonation. Activity levels for explosives detonation have been designed to follow the guidelines agreed upon by LANL, DOE, and USFWS in the DARHT biological assessment (Keller and Risberg 1995). Restrictions on explosives detonation are described in the definition of the activity, but are not included in the Activity Table (Table 1, Section 4.5.2). These six categories of activities are restricted only in AEIs that are classified as occupied.

People—includes any entry of people into an AEI on foot.

- Low impact is the presence of three or fewer people per project and duration of one day or less during a breeding season.
- Medium impact is the exceedance of either the number of people or the duration criteria.
- High impact is the exceedance of both the number of people and the duration criteria.

Vehicles—includes the entry of any two-axle highway vehicle, all-terrain vehicle, or motorized machinery into an AEI by any route other than a paved road or an improved gravel road.

- Low impact is the presence of two or fewer vehicles per project and duration of one day or less during a breeding season.
- Medium impact is the exceedance of either the number of vehicles or the duration criteria.
- High impact is the exceedance of both the number of vehicles and the duration criteria.

Aircraft—includes the operation of any aircraft below an elevation of 600 m (2,000 ft) above the highest ground level in the local vicinity.

- Low impact is the presence of one single-engine airplane and the duration of one day or less during a breeding season.
- Medium impact is the exceedance of either the number of aircraft or the duration criteria.
- High impact is the exceedance of both the number of aircraft and the duration criteria.

Any use of helicopters, jet airplanes, and propeller airplanes with two or more engines is classified as medium impact or above, depending on duration.

Other Light Production—includes any activity not previously listed that causes additional light to occur in an AEI core area. For example, plans for construction of a new building at the edge of a developed area may call for lighting at night to facilitate nighttime work that impacts an undeveloped core area.

- Low impact is the increase of light intensity by ≤0.05 fc and a duration of one night or less per project per breeding season.
- Medium impact is the exceedance of either the intensity or duration criteria.
- High impact is the exceedance of both the intensity and duration criteria.

Measurements for increases in light are taken at the AEI core area boundary closest to the light source if the source is outside the core and at 10 m (33 ft) from the source if the source is inside the core. Light measurements for developed areas are taken at the edge of the developed area if the developed area is within an AEI core or at the closest core boundary if the developed area is outside of an AEI core.

Other Noise Production—includes any activity not previously listed except for explosives detonation that causes additional noise to occur in an AEI. For example, operation of machinery creates noise.

- Low impact is increasing noise levels in an AEI core by 6 dB(A) or less for one day or less per project per breeding season.
- Medium impact is the exceedance of either the level or the duration criteria.
- High impact is the exceedance of both the level and the duration criteria.

Measurements for increases in noise are taken at the AEI core boundary closest to the noise source if the source is outside the core and at 10 m (33 ft) from the source if the source is inside the core. Noise measurements for developed areas are taken at the edge of the developed area if the developed area is within an AEI core or at the closest core boundary if the developed area is outside of an AEI core.

Explosives Detonation—includes the use of high explosives for any purpose. LANS biologists did not define low, medium, and high levels of this activity because of the difficulty of determining levels for a shot before actually doing the shot. For the purpose of explosives detonation near Mexican Spotted Owl AEIs, occupied habitat is defined as the area within 400 m (1,312 ft) of the current year's nest/roost sites or the previous year's nest site if a current site has not been identified. No explosives detonation will take place within 400 m (1,312 ft) of nest/roost sites in occupied habitat between March 1 and August 31. Explosives detonation at night at sites within 400 to 800 m (1,312 to 2,624 ft) of a nest site in occupied habitat is restricted to once a month from March 1 and August 31. There are no restrictions on daytime explosives testing between 400 and 800 m (1,312 to 2,624 ft). There are no restrictions between September 1 and February 28 or in unoccupied habitat. Explosives detonation adjacent to AEIs that have not previously been recorded by LANS biologists as occupied will have no restrictions unless surveys detect Mexican Spotted Owls. Explosives tests not allowed under the guidelines of this site plan must be individually reviewed for ESA compliance.

4.5.2 Activity Table

The dates shown in the Activity Table (Table 1) are the dates between which the activity in the row is restricted under the guidelines of this site plan. All AEIs are considered occupied from March 1 to August 31 or until surveys show an AEI to be unoccupied. If owls are detected, AEIs are considered occupied until August 31 within 400 m (1,312 ft) of the nest site. Consult with LANS biologists to find out occupancy status of AEIs and what locations are within 400 m (1,312 ft) of nest sites (http://int.lanl.gov/environment/bio/controls/index.shtml).

Table 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	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 Aug					
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.

4.6 Protective Measures

This section provides a list of management practices to apply in Mexican Spotted Owl AEIs.

Timing of projects must take into account that projects in core areas or projects that
violate restrictions for occupied buffer areas must stop on February 28 each year until
occupancy status of the AEI is determined.

^{**} Noise or light production in the buffer is restricted if the activity would violate core area restrictions on noise or light.

- Make every reasonable effort to reduce the noise from explosives testing within 800 m (2,624 ft) of occupied habitat. Methods to reduce noise could include contained shots, noise shields in the direction of AEI cores, etc. For night shots, every reasonable effort should be made to limit the amount of light directed into AEI core areas.
- Install signs on dirt roads and trails leading into AEIs labeling them as restricted access areas and provide a contact number for access restrictions.
- Keep disturbance and noise to a minimum.
- Avoid unnecessary disturbance to vegetation (e.g., excessive parking areas or equipment storage areas, off-road travel, materials storage areas, crossing of streams or washes).
- Avoid removal of vegetation along drainage systems and stream channels.
- Avoid all vegetation removals not absolutely necessary.
- Employ appropriate erosion and runoff controls to reduce soil loss. The controls must be put in place and periodically checked throughout the life of projects.
- Revegetate all exposed soils as soon as feasible after construction to minimize erosion.
- Focus development away from undeveloped areas on the western end of the Los Alamos Canyon AEI.

5.0 Levels of Development in AEI Core and Buffers

5.1 Allowable Habitat Alteration in the Buffer Areas

The following quantifications of development and guidance for allowable habitat alteration in buffer areas were published and consulted on in the 1999 version of the HMP. Most AEIs changed in dimensions during the 2005 redelineation of the habitats, and many have experienced additional development under past consultations. Many projects were reviewed and received USFWS concurrence between 1999 and 2017.

The current development status for each of the AEIs is at the end of each AEI description.

Cañon de Valle—In 1999, 16.3 ha (40.3 ac) of the core was developed and 52.2 ha (129 ac) of the buffer was developed. For this AEI, it was recommended that only an additional 25.30 ha (62.5 ac) of the AEI buffer be developed. The 1999 HMP stated that once this cap is reached or a large-scale project is proposed, additional consultation with USFWS would be required. By 2011, 28 ha (69.2 ac) of the core and 84 ha (207.5 ac) of the buffer was developed, with most of the changes due to consultations. The 2017 redelineation of the lower Water Canyon AEI resulted in another reduction of 69 ha (170 ac). The current size of this AEI is 277 ha (685 ac) of core and 524 ha (1295 ac) of buffer habitat. Of that, 21 ha (52 ac) of the current core is developed and 71 ha (176 ac) of the current buffer is developed.

Pajarito—In 1999, 6.7 ha (16.5 ac) of the core was developed and 75.1 ha (186.5 ac) of the buffer was developed. For this AEI, it was recommended that only an additional 35 ha (86.4 ac) of the buffer be developed. The 1999 HMP stated that once the cap is reached or a single large-scale project is proposed, additional consultation with the USFWS would be required. By 2011,

27 ha (66.7 ac) of the core and 89 ha (220 ac) of the buffer was developed, with most of the changes due to consultations. The current size of this AEI is 236 ha (585 ac) of core and 449 ha (1,111 ac) of buffer habitat. Of that, 27 ha (67 ac) of the current core is developed and 89 ha (220 ac) of the current buffer is developed.

Los Alamos—In 1999, 77.16 ha (190 ac) of the core was developed and 167.2 ha (413.1 ac) of the buffer was developed. Because this AEI is heavily developed, additional development was restricted to a few selected areas within the buffer. By 2011, 94 ha (232.2 ac) of the core and 181 ha (447.3 ac) of the buffer was developed, with most of the changes due to consultations. The current size of this AEI is 325 ha (805 ac) of core and 535 ha (1,323 ac) of buffer habitat. Of that, 64 ha (158 ac) of the current core is developed and 129 ha (319 ac) of the current buffer is developed.

Sandia-Mortandad—In 1999, 29 ha (71.7 ac) of the core was developed and 75.1 ha (185.6 ac) of the buffer was developed. For this AEI, LANS biologists recommended only an additional 38.1 ha (94.1 ac) of the buffer be developed before additional USFWS consultations take place. By 2011, 45 ha (111.2 ac) of the core and 83 ha (205.1 ac) of the buffer was developed, with most of the changes due to consultations. The current size of this AEI is 270 ha (669 ac) of core and 371 ha (918 ac) of buffer habitat. Of that, 44 ha (110 ac) of the current core is developed and 83 ha (206 ac) of the current buffer is developed.

Three Mile—In 1999, 3.8 ha (9.4 ac) of the core was developed and 21.5 ha (51.1 ac) of the buffer was developed. For this AEI, LANS biologists recommended only 64.3 ha (158.8 ac) additional area of buffer be developed before additional USFWS consultations take place. By 2011, 12 ha (29.6 ac) of the core and 37 ha (91.4 ac) of the buffer was developed, with most of the changes due to consultations. The current size of this AEI is 131 ha (325 ac) of core and 295 ha (730 ac) of buffer habitat. Of that, 11 ha (29 ac) of the current core is developed and 36 ha (91 ac) of the current buffer is developed.

III. AREA OF ENVIRONMENTAL INTEREST SITE PLAN FOR THE SOUTHWESTERN WILLOW FLYCATCHER

1.0 Species Description—Southwestern Willow Flycatcher

1.1 Status

In 1995, the USFWS designated the Southwestern Willow Flycatcher as a federally endangered species (60 FR 10693). The USFWS most recently designated critical habitat for the Southwestern Willow Flycatcher in 2013 (78 FR 343). The most recent recovery plan for the Southwestern Willow Flycatcher was published in 2002 (USFWS 2002).

1.2 General Biology

The Southwestern Willow Flycatcher is one of four subspecies of the Willow Flycatcher. The historic range of the Southwestern Willow Flycatcher included Arizona, California, Colorado, New Mexico, Texas, Utah, and Mexico. Currently, this flycatcher breeds in riparian habitats from southern California to Arizona and New Mexico, plus southern Colorado, Utah, Nevada,

and far western Texas. In winter it is found in southern Mexico, Central America, and northern South America (USFWS 2002).

Southwestern Willow Flycatchers are present in New Mexico from early May through mid-September and breed from late May through late July (Finch and Kelly 1999; USFWS 2002; Yong and Finch 1997). The flycatcher's nesting cycle is approximately 28 days. Three or four eggs are laid at one-day intervals, and incubation begins when the clutch is complete. The female incubates eggs for approximately 12 days, and the young fledge about 13 days after hatching. Southwestern Willow Flycatchers typically raise one brood per year (USFWS 2002). Because arrival dates vary, northbound migrant Willow Flycatchers (of all subspecies) pass through areas where Southwestern Willow Flycatchers have already begun nesting. Similarly, southbound migrants (of all subspecies) in late July and August may occur where Southwestern Willow Flycatchers are still breeding. Therefore, it is only during a short period of the breeding season (approximately June15 through July 20) that a Willow Flycatcher seen within Southwestern Willow Flycatcher range is probably of that subspecies (USFWS 2002).

The Southwestern Willow Flycatcher only nests along rivers, streams, and other wetlands. It is found in close association with dense stands of willows (*Salix* spp.), arrowweed (*Pluchea* spp.), buttonbush (*Cephalanthus* spp.), tamarisk (*Tamarix* spp.), Russian olive (*Eleagnus angustifolia* L.), and other riparian vegetation, often with a scattered overstory of cottonwood (*Populus* spp.) (USFWS 2002). The size of vegetation patches or habitat mosaics used by Southwestern Willow Flycatchers varies considerably and ranges from as small as 0.8 ha (1.9 ac) to several hundred hectares (Hatten and Paradzick 2003). The Southwestern Willow Flycatcher nests in thickets of trees and shrubs approximately 2 to 15 m (6 to 49 ft) tall, with a high percentage of canopy cover and dense foliage from 0 to 4 m (0 to 13 ft) above ground. Regardless of the plant species composition or height, occupied sites always have dense vegetation in the patch interior (Allison et al. 2003; USFWS 2002).

The Southwestern Willow Flycatcher is an insectivore. It forages within and occasionally above dense riparian vegetation, taking insects on the wing and gleaning them from foliage. The flycatcher's prey includes flies, bees, wasps, ants, beetles, moths, butterflies, grasshoppers, crickets, dragonflies, damselflies, and spiders (Durst et al. 2008; Wiesenborn and Heydon 2007).

1.3 Threats

The current population of Southwestern Willow Flycatchers in the United States occupies an estimated 1,214 territories (Durst et al. 2006). The distribution of breeding groups is highly fragmented, with groups often separated by considerable distances. This subspecies has suffered declines attributed to extensive loss of its cottonwood-willow habitat and to poor productivity resulting from brood parasitism by Brown-headed Cowbirds (*Molothrus ater*) (USFWS 2002).

2.0 Impact of Human Activities

2.1 Introduction

The primary threats to the Southwestern Willow Flycatcher on LANL property are 1) impacts on habitat quality from LANL operations and 2) disturbance of nesting flycatchers. This section includes a review and summary of the known effects of various types of human activities to the

Southwestern Willow Flycatcher and an overview of the current levels of activities at LANL within species habitat.

2.2 Impacts on Habitat Quality

2.2.1 Development

Throughout the Southwest, riparian habitats are rare and tend to be small and separated by vast expanses of arid lands. The Southwestern Willow Flycatcher has experienced extensive habitat loss and modification resulting from urban and agricultural development, water diversion and impoundment, channelization of waterways, livestock grazing, off-road vehicle and other recreational uses, and hydrological changes resulting from these and other land uses (USFWS 2002). River and stream impoundments, groundwater pumping, and overuse of riparian areas have altered as much as 90 percent of the Southwestern Willow Flycatcher's habitat (USFWS 2002). Loss of cottonwood-willow riparian forests has had widespread impact on the distribution and abundance of bird species associated with that forest. Development may be tolerated if the habitat is left intact.

Because watercourses at LANL tend to be intermittent to ephemeral, riparian habitat is uncommon. There has been extensive degradation of the riparian zone along the Rio Grande caused by feral cattle grazing and flood control operations at Cochiti Lake. There are other riparian/wetland areas on LANL property associated with canyon bottoms, the most significant being the Pajarito wetlands in the lower end of Pajarito Canyon. A major paved road parallels the wetlands area in Pajarito Canyon.

2.2.2 Ecological Risk

There is no specific information on the impact of chemicals on the Southwestern Willow Flycatcher.

2.2.2.1 Ecorisk Assessment

LANS subject matter experts completed two ecological risk assessments between 1997 and 2009 that included the Southwestern Willow Flycatcher. The ecological risk assessment process involves using computer modeling to assess potential effects to animals from chemicals of potential concern that have been detected in the environment. The ecological risk assessments concluded that, in general, there is a small potential for effects to Southwestern Willow Flycatcher from chemicals of potential concern (Gonzales et al. 1998; Gonzales et al. 2009).

An ecotoxicological risk assessment for the Southwestern Willow Flycatcher, centered on the Pajarito wetlands, found that between 7 and 16 percent of 100 hypothetical nest sites examined had hazard indices >1.0 and <10.0, depending on the foraging scenario (Gonzales et al. 1998). This indicates a small potential for impacts from chemicals. The primary chemicals driving the risk scenario were pentachlorophenol, aluminum, radium-226, calcium, and thorium-228. Aluminum, radium, and thorium are naturally occurring substances in northern New Mexico.

2.2.3 Disturbance

2.2.3.1 Pedestrians and Vehicles

There is no specific information available on the reactions of Southwestern Willow Flycatchers to pedestrians and vehicles. The recovery plan for the Southwestern Willow Flycatcher recommends providing protected areas, reducing unpredictable activities, providing visual barriers, and reducing noise disturbance (USFWS 2002).

2.2.3.2 Aircraft

There is no specific information available on the reaction of Southwestern Willow Flycatchers to aircraft.

LANL lies within restricted airspace and planes infrequently fly less than 609 m (2,000 ft) above ground level. The County of Los Alamos operates an airport along the northern edge of LANL. The airport is located on the southern rim of Pueblo Canyon. Most flights approach and depart to the east of the airport, over the Rio Grande.

2.2.3.3 Explosives

There is no specific information available on the reaction of Southwestern Willow Flycatchers to explosives detonation. The Southwestern Willow Flycatcher AEI is not located close to any explosives testing sites at LANL.

2.2.3.4 Other Sources of Noise

LANS biologists do not have good information on the effects of noise, including machinery operation, on Southwestern Willow Flycatchers. However, Southwestern Willow Flycatchers are probably not as sensitive to disturbance as some other threatened or endangered species (USFWS 2002). For a description of noise levels at LANL, see Part I, Section 2.2.3.

2.2.3.5 Artificially Produced Light

There is no information available on the effects of artificially produced light on Southwestern Willow Flycatchers. Under the Los Alamos County Code, commercial site development plans are reviewed to ensure that lighting serves the intended use of the site while minimizing adverse impacts to adjacent residential property (Section 16-276). Section 16-276 of the County Code includes light source measurement limitations by zoning district. The code allows off-site light to be 0.5 fc in residential areas. By comparison, full moonlight measures 0.1 fc, and a crescent moon was measured at 0.01 fc.

3.0 AEI General Description for the Southwestern Willow Flycatcher

The AEI consists of two types of areas—core and buffer. Core areas represent wetland areas with suitable vegetation for nesting, primarily dense willows. The buffer area is the area within 100 m (328 ft) of core areas. The Southwestern Willow Flycatcher AEI on LANL property consists of two separate core areas. For purposes of this site plan, both core areas and associated buffers are considered one AEI unit.

3.1 Method for Identifying the Southwestern Willow Flycatcher AEI

The core areas were defined by the presence of riparian habitat and suitable wetland vegetation. These areas were identified in 1994 during a survey of wetlands at LANL and mapped using a global positioning system receiver. Wetlands without stands of dense willows at least 2 m (7 ft) tall and 30 m (98 ft) wide were not included in the AEI. The buffer area is the area within 100 m (328 ft) of the core areas.

3.2 Location of the Southwestern Willow Flycatcher AEI

There is one Southwestern Willow Flycatcher AEI on LANL property. It is composed of two core areas with associated buffers. The AEI core areas are located in the bottom of Pajarito Canyon, on the eastern side of LANL adjacent to Pajarito Road and State Road 4.

4.0 AEI Management

4.1 Overview

This AEI management section provides guidelines for LANL operations to reduce or eliminate the threats to the Southwestern Willow Flycatcher from 1) habitat alterations that reduce habitat quality and 2) disturbance of breeding or potentially breeding flycatchers. Habitat alterations are considered for all AEIs and for both core and buffer areas. Disturbance activities to flycatchers are considered only for occupied AEIs and only for impacts on core areas. Developed areas (see Part I, Section 2.3) that have ongoing baseline levels of activities and are not suitable habitat for Southwestern Willow Flycatchers have different restrictions than undeveloped core or buffer areas. Therefore, the location of the disturbance activity within the AEI, the occupancy status of the AEI, and the type of activity all affect whether or not the activity is allowable. AEIs for different species may overlap, and an activity must meet the guidelines of all applicable site plans to be allowable. Protective measures are described as management practices that should be followed when working in AEIs.

4.2 Definition and Role of Occupancy in AEI Management

Occupancy simply refers to whether or not an AEI is occupied during a species' period of sensitivity. For Southwestern Willow Flycatchers, LANS biologists are primarily concerned with protecting the birds from disturbance during the breeding season. Because individuals may colonize suitable habitat, the Southwestern Willow Flycatcher AEI is treated as though it is occupied from May 15 through September 15 or until surveys show an AEI to be unoccupied. Southwestern Willow Flycatcher surveys are conducted during May, June, and July. Because Southwestern Willow Flycatchers migrate south for the winter, the AEI is treated as unoccupied from September 16 to May 14.

The occupancy status of an AEI affects what activities are allowable in the AEI. Although activities causing habitat alterations are always restricted, disturbance activities are restricted only in occupied AEIs. The Activity Table (Table 2, Section 4.5.2) provides dates and levels of disturbance activities allowable in the occupied Southwestern Willow Flycatcher AEI under the guidelines of this site plan. The dates in Table 2 indicate the time period during which the activity is restricted. Contact a LANS biologist to find out the current occupancy status of an AEI (http://int.lanl.gov/environment/bio/controls/index.shtml).

4.3 Introduction to AEI Management Guidelines

Sections 4.4 and 4.5 provide the guidelines for habitat alterations and allowable activities in AEI core and buffer areas. The flowchart (see Figure 1) provides a quick reference that should be used to determine if a project or activity will affect an AEI and what sections of the site plan need to be consulted. The section on habitat alterations (Section 4.4) describes what and where habitat alterations are allowed under the guidelines of this site plan. The section and table on allowable activities (Section 4.5 and Table 2) describe what, when, and where disturbance activities are allowed in occupied AEIs under the guidelines of this site plan. If an activity does not meet the restrictions given in the guidelines, the activity must be individually reviewed for ESA compliance. This site plan only provides guidelines for the Southwestern Willow Flycatcher AEI. If an activity is desired in an area with overlapping AEIs, all applicable site plans must be consulted. Section 4.6 describes management practices that should be applied when working or considering work in an AEI. LANS biologists are available to help interpret site plans and answer questions (http://int.lanl.gov/environment/bio/controls/index.shtml).

4.4 Definition of and Restrictions on Habitat Alterations

4.4.1 Definition of Habitat Alterations

Habitat alteration includes any action that over the long term alters the soil structure, vegetative components necessary to the species, prey quality and quantity, water quality, hydrology, or noise or light levels in undeveloped areas of an AEI. Long term means the alteration lasts for more than one year. Habitat alteration includes any activity that removes vegetative components important to the Southwestern Willow Flycatcher (primarily trees and shrubs). An actual activity may take place outside of the AEI and will be considered habitat alteration if consequences of the activity have effects inside the AEI core.

The habitat components most important to flycatchers include vegetative structure, food quality and quantity, and disturbance levels, including noise and light. The thickets of certain trees and shrubs along wetlands are important because they provide roost sites and a suitable habitat for nesting and foraging.

4.4.2 Fuels Management Practices to Reduce Wildfire Risk

Thinning within undeveloped buffer areas may include trees of any size to achieve 7.6 m (25 ft) spacing between tree crowns. However, clear cutting is not allowed in undeveloped buffer areas. No fuels management practices are allowed in core areas. Habitat alterations including thinning are not restricted in developed areas.

4.4.3 Utility Corridors

Habitat alterations such as cutting down trees that threaten power lines are allowed within 8 m (26 ft) of either side of an existing utility line in all areas of an AEI (Trujillo and Racinez 1995). New utility lines and utility lines requiring clearance of a right-of-way greater than 16 m (52 ft) total must be individually reviewed for ESA compliance. Disturbance activities must follow the guidelines given in the Activities Table (Table 2, Section 4.5.2) for occupied AEIs.

4.4.4 Restrictions on Habitat Alterations

Habitat alterations other than the utility corridor maintenance described above are not allowed in undeveloped core areas under the guidelines of this site plan. Habitat alteration in buffers is limited. If a project or activity is planned that would alter habitat in an undeveloped core area, it must be individually evaluated for ESA compliance. Habitat alterations in a buffer area other than fuels management activities or utility corridor maintenance must be reported to a LANS biologist for tracking (http://int.lanl.gov/environment/bio/controls/index.shtml).

4.5 Definition of and Restrictions on Disturbance Activities

4.5.1 Definition of Disturbance Activities

LANS biologists considered five categories of activities that might cause disturbance in an AEI. Most of the categories were first identified in the document "Peregrine Falcon Habitat Management in the National Forests of New Mexico" prepared for the United States Forest Service (Johnson 1994). Other light production and other noise production were included to provide the most comprehensive list of activities possible, reducing the need for individual review of activities for ESA compliance. The categories of activities are people, vehicles, aircraft, other light production, and other noise production. The impact of explosives detonation on this species is not considered here because there are no explosives testing sites within 2 km (1.25 mi) of potential nesting habitat. Low, medium, and high levels of impact for these activities are considered here. The following categories of activities are restricted only in AEIs that are classified as occupied.

People—includes any entry of people into an AEI on foot.

- Low impact is the presence of three or fewer people per project and duration of one day or less during a breeding season.
- Medium impact is the exceedance of either the number of people or the duration criteria.
- High impact is the exceedance of both the number of people and the duration criteria.

Vehicles—includes the entry of any two-axle highway vehicle, all-terrain vehicle, or motorized machinery into an AEI by any route other than a paved road or an improved gravel road.

- Low impact is the presence of two or fewer vehicles per project and duration of one day or less during a breeding season.
- Medium impact is the exceedance of either the number of vehicles or the duration criteria.
- High impact is the exceedance of both the number of vehicles and the duration criteria.

Aircraft—includes the operation of any aircraft below an elevation of 600 m (2,000 ft) above the highest ground level in the local vicinity.

- Low impact is the presence of one single-engine airplane and duration of one day or less during a breeding season.
- Medium impact is the exceedance of either the number of aircraft or the duration criteria.

• High impact is the exceedance of both the number of aircraft and the duration criteria.

Any use of helicopters, jet airplanes, and propeller airplanes with two or more engines is classified as medium impact or above, depending on duration.

Other Light Production—includes any activity not previously listed that causes additional light to occur in an AEI core area (e.g., plans for construction of a new building at the edge of a developed area may call for lighting at night to facilitate nighttime work that impacts an undeveloped core area).

- Low impact is the increase of light intensity by up to 0.05 fc and a duration of one night or less per project per breeding season.
- Medium impact is the exceedance of either the intensity or duration criteria.
- High impact is the exceedance of both the intensity and duration criteria.

Measurements for increases in light are taken at the AEI core area boundary closest to the light source if the source is outside the core, and at 10 m (33 ft) from the source if the source is inside the core. Light measurements for developed areas are taken at the edge of the developed area if the developed area is within an AEI core, or at the closest core boundary, if the developed area is outside of an AEI core.

Other Noise Production—includes any activity not previously listed except for explosives detonation that causes additional noise to occur in an AEI. For example, operation of machinery causes noise.

- Low impact is increasing noise levels in an AEI core by 6 dB(A) or less for one day or less per project per breeding season.
- Medium impact is the exceedance of either the level or the duration criteria.
- High impact is the exceedance of both the level and the duration criteria.

Measurements for increases in noise are taken at the AEI core boundary closest to the noise source if the source is outside the core, and at 10 m (33 ft) from the source if the source is inside the core. Noise measurements for developed areas are taken at the edge of the developed area if the developed area is within an AEI core, or at the closest core boundary if the developed area is outside of an AEI core.

4.5.2 Activity Table

The dates shown in the Activity Table (Table 2) are the dates between which the activity in the row is restricted under the guidelines of this site plan. Disturbance activities are of concern only when Southwestern Willow Flycatchers occupy an AEI. The AEI is always considered occupied between May 15 and September 15, or until surveys show the AEI to be unoccupied. The Southwestern Willow Flycatcher AEI is always considered unoccupied between September 16 and May 14, when flycatchers have migrated for the winter. For occupancy status of an AEI after completion of surveys, contact a LANS biologist (http://int.lanl.gov/environment/bio/controls/index.shtml).

Table 2. Restrictions on Activities in Undeveloped Occupied Southwestern Willow Flycatcher AEI

	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 Aug					
	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

Since the purpose of the buffer area is to help maintain the core area as suitable Southwestern Willow Flycatcher habitat, habitat alteration in the buffer area will be extremely limited. There are two areas in which restrictions on habitat alteration are relaxed.

- 1. The mesa top of Mesita del Buey. This mesa top can be developed as long as restrictions on impacts to the core area are met.
- 2. Pajarito Road within the AEI. Mowing of upland vegetation is allowed up to 5 m (15 ft) from Pajarito Road, or to the fence, if the fence is within 9 m (30 ft). Vegetation must cover the roadsides to prevent sediment runoff, so mowed plants should be at least 5 cm (2 in) high. LANS biologists encourage the growth of willow throughout the AEI—even the area along Pajarito Road—to enhance habitat. If, within this area, it is absolutely necessary to remove new willow growth (i.e., to improve visibility for human safety), LANS biologists recommend that only willows at or above the level of the roadway surface be mowed.

IV. AREA OF ENVIRONMENTAL INTEREST SITE PLAN FOR THE JEMEZ MOUNTAINS SALAMANDER

1.0 Species Description—Jemez Mountains Salamander

1.1 Status

The Jemez Mountains Salamander was listed in New Mexico as endangered under the Wildlife Conservation Act of New Mexico in 2006 (NMDGF 2006). In September 2012 the USFWS proposed the Jemez Mountains Salamander as endangered under the ESA (77 FR 56481) and the final listing as endangered was on September 10, 2013 (78 FR 55599).

1.2 General Biology

The Jemez Mountains Salamander is endemic to the Jemez Mountains of north-central New Mexico and is found in Los Alamos, Rio Arriba, and Sandoval counties (Stebbins and Riemer 1950). It is one of two endemic plethodontid salamanders that occur in New Mexico. It occurs predominantly at elevations between 2,130 to 3,430 m (6,988 to 11,254 ft) in mixed-conifer forest with greater than 50 percent canopy cover consisting mainly of Douglas fir (*Pseudotsuga menziesii* [Mirb.] Franco), blue spruce (*Picea pungens* Engelm.), Engelmann spruce (*Picea engelmannii* Parry ex Engelm.), white fir (*Abies concolor* [Gord. & Glend.] Lindl. ex Hildebr.), limber pine (*Pinus flexilis* James), ponderosa pine, and quaking aspen (*Populus tremuloides* Michx.). The ground surface in forest areas has (a) moderate to high volumes of large fallen trees and other woody debris, especially coniferous logs at least 25 cm (10 in) in diameter, particularly Douglas fir, which are in contact with the soil in varying stages of decay from freshly fallen to nearly fully decomposed; or (b) structural features, such as rocks, bark, and

moss mats that provide the species with food and cover. Underground habitat in forest or meadow areas contains interstitial spaces provided by (a) igneous rock with fractures or loose rocky soils, (b) rotted tree root channels, or (c) burrows of rodents or large invertebrates (Degenhardt et al. 1996; 78 FR 9876).

Plethodontid salamanders, which lack both lungs and gills, breathe through the mucous membranes in their mouth and throat and through their moist skin. The Jemez Mountains Salamander is completely terrestrial and does not use standing surface water for any life stage (77 FR 56481). Present in its habitat year-round, the Jemez Mountains Salamander spends most of its life underground, but can be found on the surface when conditions are warm and wet, approximately July through October. During this time, the Jemez Mountains Salamander can be found under rocks, bark, and moss mats, and inside and under logs (Ramotnik 1986, Everett 2003). The Jemez Mountains Salamander eats invertebrates, including ants, mites, and beetles, and is thought to lay its eggs underground (78 FR 9876).

1.3 Threats

Principal threats to habitat include historical fire exclusion and suppression and severe wildland fires; forest composition and structure conversions; post-fire rehabilitation; forest and fire management; roads, trails, and habitat fragmentation; recreation; and disease (77 FR 56482).

2.0 Impact of Human Activities

2.1 Introduction

Primary threats to the Jemez Mountains Salamander on LANL property are impacts to habitat quality or destruction of individual salamanders caused by LANL or Los Alamos County operations. Forested LANL property is also subject to impacts from severe wildland fire and wildfire suppression.

2.2 Impacts on Habitat Quality

2.2.1 Development

Property at LANL varies from remote isolated land to heavily developed and/or industrialized. Most of the large developed areas at LANL are found on mesa tops, generally in the northern and western portion of LANL. The areas of Jemez Mountains Salamander habitat currently most impacted by development occur in Los Alamos Canyon. There is a secondary paved road (West Road) in the bottom of the canyon that exits the canyon on the north-facing slope through Jemez Mountains Salamander habitat. The canyon bottom also contains a recreational ice rink operated by Los Alamos County on an inholding owned by Los Alamos County. Development that reduces the occurrence of primary constituent elements of Jemez Mountains Salamander in core habitat would likely have a negative impact on the species.

2.2.2 Pedestrians and Vehicles

Many canyon bottoms and mesa tops at LANL have dirt roads traversing them. Most of these roads are gated; however, many of these roads are accessible to LANL employees and the public on foot or by bike. Some areas, such as Los Alamos Canyon, are frequently used by hikers and dog owners on active and historic trails that traverse the canyon, through Jemez Mountains

Salamander habitat in places. Maintenance of roads and trails in the habitat may have a negative impact on the species.

2.2.3 Severe Wildland Fire and Wildfire Suppression

Stand-replacing wildfires significantly change forest composition and structure, and reduce canopy cover. Even ground wildfires may reduce the volume of fallen logs and large woody debris. Large areas of historic Jemez Mountains Salamander habitat have been impacted by stand-replacing wildfires associated with current forest stocking conditions, drought, and high temperatures (77 FR 56482). Forested habitats on LANL property are also subject to severe wildland fires. To mitigate wildfire risks, some areas of LANL have been treated for fuels reduction and creation of fuel breaks both pre-emptively and during active wildfire suppression. Both wildfires and wildfire suppression activities can negatively impact the primary constituent elements of Jemez Mountains Salamander core habitat.

2.3 Impacts on Individual Salamanders

2.3.1 Disease

The amphibian pathogenic fungus *Batrachochytrium dendrobatidis* (Bd) was found in a 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 may be a threat to the Jemez Mountains Salamander because this disease is a threat to many other species of amphibians and the pathogen has been detected in the Jemez Mountains Salamander (77 FR 56482).

As part of a cooperative study with the New Mexico Department of Game and Fish between 2007 and 2013, various amphibian species, including the canyon tree frog (*Hyla arenicolor*), western chorus frog (*Pseudacris triseriata*), Woodhouse's toad (*Anaxyrus woodhousii*), tiger salamander (*Ambystoma tigrinum*), and Jemez Mountains Salamander were tested for Bd infection at LANL. To date, all sampling has been negative for Bd infection (Fresquez et al. 2013).

2.3.2 Destruction of Individual Salamanders

During periods of the year when Jemez Mountains Salamanders are on the soil surface, when conditions are warm and wet (generally July to October), they are vulnerable to injury and mortality from soil-disturbing activities, including operation of heavy equipment in core habitat. They also are at risk to be found and collected by people.

3.0 AEI General Description for the Jemez Mountains Salamander

The AEI consists of two areas—a core area and a buffer area. The core habitat is defined as suitable habitat where the Jemez Mountains Salamander occurs or may occur at LANL. The core habitat consists of sections of north-facing slope that contain the required micro-habitat to

support Jemez Mountains Salamander. The buffer area is 100 m (328 ft) wide extending outward from the edge of the core area.

3.1 Method for Identifying a Jemez Mountains Salamander AEI

The first step in identifying potential Jemez Mountains Salamander AEIs at LANL was to use a GIS to model habitat. Early modeling efforts by Hathcock (2008) identified areas of potential habitat and that model was further refined. The following parameters were modeled in the GIS:

• Elevation: 2,150 m (7,000 ft) and above

• Slope: Greater than 20 degrees

• Aspect: north-facing +/- 20 degrees

• Land cover: Mixed conifer

• Land use: Undeveloped

• Modeled habitat is only selected if it is greater than five contiguous 30×30 m (98 × 98 ft) pixels in size

Once this habitat layer was developed, a second layer was modeled that examined the level of shade in the habitat, also known as an illumination index. Since the Jemez Mountains Salamander needs cool moist conditions, an illumination index model would further highlight areas where this habitat type may occur or further reinforce the areas selected by the GIS modeling. The illumination index describes the amount and extent of solar radiation reaching the Earth's surface at a given point. This takes into account the topography that may cast shadows. The illumination model was developed using the 5 m (16 ft) resolution digital elevation model hillshade and using the Surface toolbox in ArcToolbox (Environmental Science Research Institute, Redlands, California) using the highest height of the sun on June 21 at 1:00 pm, altitude of 74.4 and Azimuth of 178.4, when the sun would be at its maximum height. These procedures were based on work done by Reilly et al. (2009).

Once this modeling was complete, LANS biologists performed field validation to verify the suitability of the modeled habitat. The goal was to verify that mixed conifer was still the dominant cover class in the selected area. The GIS analysis used data from a landcover map created by McKown et al. (2003). There have been changes in habitat from fire and extreme drought effects since this landcover map was published. Since LANL is on the extreme edge of Jemez Mountains Salamander lower elevational range, a key component in this part of its range is soil moisture content. During field validation, evidence of a moist mixed conifer habitat versus a dry mixed conifer habitat was noted. One of the key indicators used to delimit areas of moist versus dry mixed conifer during the field validation was the presence of white fir (Evans et al. 2011) combined with a high canopy cover.

Field validation of the model occurred in May 2013, or decisions were based on earlier field visits to the sites from other projects. Each field validation consisted of LANS biologists walking down all of the modeled habitat polygons to look for the presence of indictor features. If a polygon of modeled habitat contained white fir, indicating a moist wet conifer type habitat, a high canopy closure, and other signs of high habitat quality such as dead logs, moss, or other

areas that could be used as cover by the Jemez Mountains Salamander, then the polygon was marked for retention in the final core habitat. Polygons that did not contain the necessary habitat requirements were omitted.

After the field validation was complete, the final core habitat boundaries were hand digitized using ArcGIS (Environmental Science Research Institute, Redlands, California) by LANS biologists in and around the validated modeled polygon and areas between polygons, if appropriate. The final identified core habitat at LANL occurs on the north-facing slopes of canyons. Toward the rim of the canyon, the core boundaries end where the mixed conifer ends. In the canyon bottoms, the core 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 of New Mexico Highway 126 is on land leased to DOE by the Santa Fe National Forest. The entire footprint is considered to be developed core habitat for the Jemez Mountains Salamander, since proposed critical habitat is adjacent to the facility.

3.2 Location and Number of Jemez Mountains Salamander AEIs

The identified Jemez Mountains Salamander core habitats were grouped by canyon system into AEIs, which contain contiguous and noncontiguous habitat areas. The largest contiguous section of habitat at LANL is in Los Alamos Canyon. There are two noncontiguous areas of habitat in Two-mile Canyon, four in Pajarito Canyon, one contiguous area in Cañon de Valle, and the entire Fenton Hill footprint.

4.0 AEI Management

4.1 Overview

This AEI management section provides guidelines for LANL operations to reduce or eliminate the threats to the Jemez Mountains Salamander from habitat alterations that reduce habitat quality. Habitat alterations are considered for all AEIs and for both core and buffer areas. Developed areas that have ongoing baseline levels of activities and are not suitable habitat for Jemez Mountains Salamander have different restrictions than undeveloped core or buffer areas. AEIs for different species may overlap, and an activity must meet the guidelines of all applicable site plans to be allowable. Protective measures are described as management practices that should be followed when working in AEIs.

4.2 Definition and Role of Occupancy in AEI Management

Occupancy simply refers to whether or not an AEI is occupied by the Jemez Mountains Salamander. The Los Alamos Canyon AEI is known to be occupied based on past surveys. Surveys for the Jemez Mountains Salamander are known to have a very low detection rate for occupied areas, so at LANL, all AEIs are assumed to be occupied at all times. If needed, site-specific surveys will be conducted by federally permitted LANS biologists.

4.3 Definition and Role of Developed Areas in AEI Management

Developed areas include all building structures, paved roads, improved gravel roads, and paved and unpaved parking lots. The majority of Jemez Mountains Salamander core habitat is in

undeveloped areas, except for the satellite facility at Fenton Hill and a small amount of habitat in Los Alamos Canyon where West Road crosses the habitat. Generally, developed areas will not have restrictions; however, some of the undeveloped sections within the footprint of Fenton Hill may have restrictions because they may contain Jemez Mountains Salamanders when they move to the surface between July and October. Any project that occurs within developed core habitat will be evaluated by LANS biologists for ESA compliance.

4.4 General Description of Core and Buffer Areas and Allowable Area Development

The purpose of buffer areas is to protect core areas from habitat degradation. The current levels of development in buffer and core areas represent baseline conditions for this site plan. No further development is allowed in the core area under the guidelines of this site plan. Any development in a buffer area will be reviewed by LANS biologists to ensure that there are no impacts to the core habitat.

4.5 Emergency Actions

If safety and/or property are immediately threatened by something occurring within an AEI (for example, wildfire, water line breakage, etc.) please contact a LANS biologist (505-665-3366) as soon as possible. If the emergency occurs outside of regular business hours, contact the Emergency Management Office (505-667-6211). This office will then communicate with the appropriate LANS personnel.

4.6 Introduction to AEI Management Guidelines

Section 4.7 provides the guidelines for habitat alterations and allowable activities in AEI core and buffer areas. It describes what and where habitat alterations are allowed under the guidelines of this site plan. If an activity does not meet the restrictions given in the guidelines, the activity must be individually reviewed for ESA compliance. This site plan only provides guidelines for the Jemez Mountains Salamander AEIs. If an activity is desired in an area with overlapping AEIs, all applicable site plans must be consulted. AEI maps show the location of all AEIs in an area. LANS biologists are available to help interpret site plans and answer questions (http://int.lanl.gov/environment/bio/controls/index.shtml).

4.7 Definition of and Restrictions on Habitat Alterations

4.7.1 Definition of Habitat Alterations

Habitat alteration includes any action that alters the soil structure, vegetative components necessary to the species, water quality, or hydrology in undeveloped areas of an AEI. An actual activity may take place outside of the AEI and will be considered habitat alteration if consequences of the activity have effects inside the AEI core. Habitat alterations would also include soil pits for soil samples deeper than 15 cm (6 in) using either hand or mechanized augers. Any activity that might disturb the soil will need to be reviewed by LANS biologists.

The habitat components most important to the Jemez Mountains Salamander include soil structure and vegetative structure. The forest structure within an area designated as a Jemez Mountains Salamander AEI is important because it provides the necessary moist, cool microclimate.

4.7.2 Fuels Management Practices to Reduce Wildfire Risk

One of the primary threats to the Jemez Mountains Salamander is wildfire (77 FR 56482), but they also require habitat with a high canopy cover, which makes fuels reduction challenging. Within undeveloped core areas, thinning trees to a level of 80 percent canopy cover or higher is approved. Trees may not be thinned below 80 percent canopy cover without further ESA review by LANS biologists. Large logs on the ground should be left in place and not chipped. Understory thinning that does not reduce total canopy cover below 80 percent is permitted. Large trees that are felled should be left as large logs on the ground. Smaller trees and understory shrubs that may be thinned should be dispersed and left on-site to aid in soil moisture retention. Thinning activities should not occur during the rainy season between July to October (or when freezing temperatures begin, whichever comes first) when the Jemez Mountains Salamander is found on the surface.

In buffer areas, thinning of trees can occur to the current LANL-approved prescription level (LAAO 2000). LANS biologists are available to provide guidance and mark trees for thinning (http://int.lanl.gov/environment/bio/controls/index.shtml).

4.7.3 Utility Corridors

Habitat alterations such as cutting down trees that threaten power lines are allowed within 8 m (26 ft) of either side of an existing electrical utility line at LANL under existing guidelines and engineering controls (Hathcock 2013). This level is approved in all areas of an AEI. New utility lines and utility lines requiring clearance of a right-of-way greater than 16 m (52 ft) total in core habitat must be individually reviewed for ESA compliance.

4.7.4 Restrictions on Habitat Alterations

Habitat alterations other than the fuels management practices and utility corridor maintenance described above are not allowed in undeveloped core areas under the guidelines of this site plan. If a project or activity is planned that would alter habitat in an undeveloped core area, it must be individually evaluated for ESA compliance. Habitat alterations in buffer areas must be reviewed by LANS biologists to ensure that there are no impacts to core habitat.

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APPENDIX

Table A-1. The Percentage of each Food Type Found in Mexican Spotted Owl Food Remains at LANL

Species	Relative Abundance		
Neotoma spp.	26.22		
Peromyscus spp.	10.22		
Microtus spp.	4.44		
Gophers	4.89		
Bats	5.78		
Chipmunks	0.89		
Rabbits	12.89		
Shrews	1.33		
Small Mammal	1.33		
Medium Mammal	1.78		
Medium Bird	8.00		
Small Bird	4.89		
Nocturnal Birds	0.89		
Reptiles	4.89		
Arthropods	11.56		

Table A-2. Preliminary Light Measurements in ftc for Mexican Spotted Owl Site Plan

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

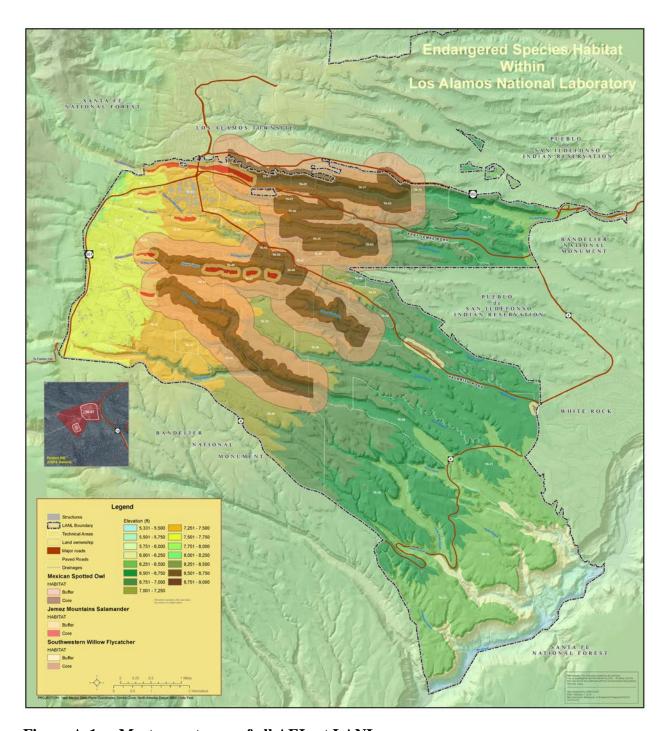


Figure A-1. Most recent map of all AEIs at LANL

TA-03-22 Power and Steam Plant

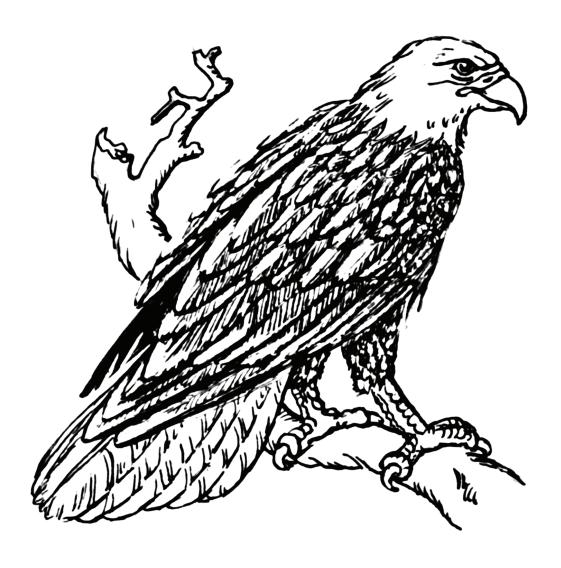
MSGP Stormwater Pollution Prevention Plan Revision 1, January 2020

ATTACHMENT 14: MSGP IPAC TRUST RESOURCES REPORT

MSGP

IPaC Trust Resource Report

Generated July 27, 2015 07:29 PM MDT



US Fish & Wildlife Service

IPaC Trust Resource Report



Project Description

NAME

MSGP

PROJECT CODE

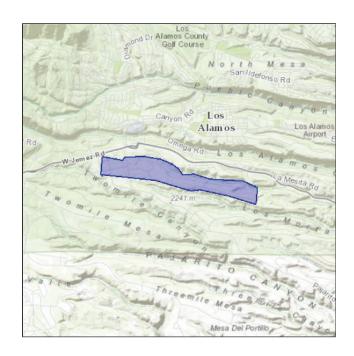
LXATM-TI5EJ-BAJEQ-3NC5E-SOGYTE

LOCATION

Los Alamos County, New Mexico

DESCRIPTION

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



U.S. Fish & Wildlife Contact Information

Species in this report are managed by:

New Mexico Ecological Services Field Office 2105 Osuna Road Ne Albuquerque, NM 87113-1001 (505) 346-2525

Endangered Species

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

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

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

Amphibians

Jemez Mountains Salamander Plethodon neomexicanus

Endangered

CRITICAL HABITAT

There is final critical habitat designated for this species.

https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=D019

Birds

Mexican Spotted Owl Strix occidentalis lucida

Threatened

CRITICAL HABITAT

There is **final** critical habitat designated for this species.

https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B074

Southwestern Willow Flycatcher Empidonax traillii extimus

Endangered

CRITICAL HABITAT

There is final critical habitat designated for this species.

https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B094

Yellow-billed Cuckoo Coccyzus americanus

Threatened

CRITICAL HABITAT

There is **proposed** critical habitat designated for this species.

https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B06R

Mammals

New Mexico Meadow Jumping Mouse Zapus hudsonius luteus

Endangered

CRITICAL HABITAT

There is **proposed** critical habitat designated for this species.

https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=A0BX

Critical Habitats

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

There is no critical habitat within this project area

Migratory Birds

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

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

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

Bald Eagle Haliaeetus leucocephalus

Bird of conservation concern

Season: Wintering

https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B008

Bendire's Thrasher Toxostoma bendirei

Bird of conservation concern

Season: Breeding

Brewer's Sparrow Spizella breweri

Bird of conservation concern

Season: Migrating

https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B0HA

Brown-capped Rosy-finch Leucosticte australis

Bird of conservation concern

Season: Wintering

Burrowing Owl Athene cunicularia

Bird of conservation concern

Season: Breeding

Cassin's Finch Carpodacus cassinii

Bird of conservation concern

Year-round

Flammulated Owl Otus flammeolus

Bird of conservation concern

Season: Breeding

https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B0DK

Fox Sparrow Passerella iliaca

Bird of conservation concern

Season: Wintering

Golden Eagle Aquila chrysaetos

Bird of conservation concern

Year-round

https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B0DV

Grace's Warbler Dendroica graciae

Bird of conservation concern

Season: Breeding

Juniper Titmouse Baeolophus ridgwayi

Bird of conservation concern

Year-round

Lewis's Woodpecker Melanerpes lewis

Bird of conservation concern

Year-round

Loggerhead Shrike Lanius Iudovicianus

Bird of conservation concern

Year-round

https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B0FY

Mountain Plover Charadrius montanus

Bird of conservation concern

Season: Breeding

https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B078

Olive-sided Flycatcher Contopus cooperi

Bird of conservation concern

Season: Breeding

https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B0AN

Peregrine Falcon Falco peregrinus

Bird of conservation concern

Season: Breeding

https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B0FU

Pinyon Jay Gymnorhinus cyanocephalus

Bird of conservation concern

Year-round

Prairie Falcon Falco mexicanus

Bird of conservation concern

Year-round

https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B0ER

Swainson's Hawk Buteo swainsoni

Season: Breeding

https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B070

Williamson's Sapsucker Sphyrapicus thyroideus

Bird of conservation concern

Bird of conservation concern

Season: Breeding

https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B0FX

Willow Flycatcher Empidonax traillii

Bird of conservation concern

Season: Breeding

https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B0F6

Refuges

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

There are no refuges within this project area

Wetlands

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

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

DATA LIMITATIONS

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

DATA EXCLUSIONS

Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and nearshore coastal waters. Some deepwater reef communities (coral or tuberficid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

DATA PRECAUTIONS

Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.

There are no wetlands identified in this project area

ATTACHMENT 15: ENV-CP-QAPP-MSGP

The EPC-CP-QAPP-MSGP is in the process of being replaced by EPC-CP-PIP-2101, NPDES Multi-Sector General Permit. The current document, ENV-CP-QAPP-MSGP R-5, is included in the attachment and will be replaced in the hard copy of the SWPPP once the new document is completed.

ENV-CP-QAPP-MSGP, R5 Effective Date: 11/04/2013 Next Review Date: 11/04/2015



Environment, Safety, Health Directorate

Environmental Protection Division – Compliance Programs Group

Quality Assurance Project Plan

Stormwater Multi-Sector General Permit for Industrial Activities Program

Reviewers:			
Name:	Organization:	Signature:	Date:
Melanie Lamb	ADESH-OIO, QA Specialist	Signature on File	
Deriv	ative Classifier: Un	classified 🛭 DUSA <u>ENVPRO</u>	
Name:	Organization:	Signature:	Date:
Ellena Martinez	ADESH-OIO	Signature on File	
	Approval	Signatures:	
Subject Matter Expert:	Organization:	Signature:	Date:
Holly Wheeler	ENV-CP	Signature on File	
Responsible Line Manager:	Organization:	Signature:	Date:
Mike Saladen	ENV-CP, Team Lead	Signature on File	
Responsible Line Manager:	Organization:	Signature:	Date:
	ENV-CP, Group Leader	Signature on File	

CONTROLLED DOCUMENT

This copy is uncontrolled. The controlled copy can be found on the ENV Division Web page.

Users are responsible for ensuring they work to the latest approved version.

Stormwater MSGP for Industrial Activities Program	No. ENV-CP-QAPP-MSGP, R5	Page 2 of 40
	Effective Date: 11/04/2013	

History of Revisions

Document Number [Include revision number, beginning with Revision 0]	Effective Date [Document Control Coordinator inserts effective date]	Description of Changes [List specific changes made since the previous revision]
0	06/03	New Document
1	12/05	Annual review and revision
2	07/07	Annual review, incorporated organizational restructure changes.
3	07/09	Biennial Review and Revision
4	07/09	Biennial Review and Revision
5	10/13	Biennial Review and Revision. New format implemented.

Effective Date: 11/04/2013

Table of Contents

1.0	QUA	LITY PROGRAM	5
	1.1	Quality Program Purpose	5
	1.2	Organization	5
	1.3	Responsibilities	6
2.0	PERS	SONNEL DEVELOPMENT	6
	2.1	MSGP Curricula	6
	2.2	MSGP Inspector Qualifications	8
	2.3	MSGP SWPPP Preparer Qualifications	8
	5.4	MSGP Visual Assessor Qualifications	9
	5.5	Training Responsibilities	9
3.0	QUA	LITY IMPROVEMENT	10
	3.1	Corrective Actions within ENV-RCRA	
	3.3	Quality Improvement Responsibilities	10
4.0	DOC	UMENT CONTROL/RECORDS MANAGEMENT	
	4.1	Program Records	
	4.2	Program Records Responsibilities	
	4.3	Electronic Media	
	4.4	Databases	12
	4.4	Implementation Responsibilities	13
5.0	PLAN	NNING AND PERFORMING WORK	13
	5.1	Work Processes	
	5.3	Work Performance	
	5.4	StormWater Pollution Prevention Plan	
	5.5	Inspections	16
	5.6	StormWater Monitoring	16
	5.7	Discharge Monitoring Reports	
	5.8	Adverse Weather Conditions and Climates with Irregular Stormwater Runoff	20
	5.9	Reporting and Recordkeeping	21
	5.10	Best Management Practices	22
	5.11	Information Management	22
	5.12	Responding to Water Quality Exceedances	22
	5.13	Instrumentation and Equipment	24
6.0	DESI	GN	24
7.0		CUREMENT	
8.0	INSP	ECTION AND ACCEPTANCE TESTING	26
9.0		AGEMENT ASSESSMENT	
10.0	INDE	EPENDENT ASSESSMENT	27
11.0	ATT	ACHMENTS	27

Stormwater MSGP for Industrial Activities Program	No. ENV-CP-QAPP-MSGP, R5	Page 4 of 40
	Effective Date: 11/04/2013	

Attachment 1- MSGP Program Organization2	8
Attachment 2 – Annual Reporting Form2	9
Attachment 3 – Routine Inspection Form	5
Attachment 4 MSGP Facilities and Storm Water Monitored Outfalls Associated with Industrial	
Activity 2011, Permit NMR05GB213	7
Attachment 5 – Pollutants Under Impaired Waters Monitoring3	8
Attachment 6 – Analytes by Industrial Sector	9
Attachment 7 – References and Guidance Documents4	0

Stormwater MSGP for Industrial Activities Program	No. ENV-CP-QAPP-MSGP, R5	Page 5 of 40
	Effective Date: 11/04/2013	

1.0 QUALITY PROGRAM

LANL will comply with the monitoring requirements as specified by the 2008 National Pollutant Discharge Elimination System (NPDES) Stormwater Multi-Sector General Permit for Industrial Activities. Compliance will be demonstrated through the successful implementation of this project plan and applicable procedures.

Los Alamos National Laboratory (the Laboratory) has established a comprehensive stormwater program for its industrial activities. Historically, the Laboratory operated under the NPDES Baseline General Permit and then under the NPDES 1995, 2000, and 2008 Multi-Sector General Permits. The Laboratory submitted its NOI for 2008 coverage in December 2008.

The 2008 MSGP was issued on September 22, 2008 and became effective on September 29, 2008.

The purpose of this project plan is to ensure compliance with the following:

- 2008 NPDES Multi-Sector General Permit (MSGP) and the Clean Water Act (CWA)
- DOE Order 450.1, *Environmental Protection Program*, and DOE Order 5400.5, *Radiation Protection of the Public and Environment*, which establish environmental protection program policies, requirements, and responsibilities

The Environmental Protection, Environmental Compliance Programs (ENV-CP) Water Quality Team has been tasked with overseeing institutional stormwater compliance related activities at the Laboratory.

1.1 QUALITY PROGRAM PURPOSE

This Quality Assurance Project Plan (QAPP) describes the policies and requirements that ensure MSGP activities are conducted in a consistent, agreed-upon manner.

This QA Project Plan describes the policies and requirements that ensure the MSGP processes are conducted in a consistent, agreed-upon manner. Drivers for the quality plan include:

- o DOE Order 414.1C, Quality Assurance
- o SD330, LANL Quality Assurance Program

This QA Project Plan (QAPP), including implementing procedures, is a sub-tier document to the SD330, *LANL Quality Assurance Program*. The following documents provide requirements to ensure that the MSGP Program is operated in accordance with established plans and procedures:

- SD330, LANL Quality Assurance Program
- QA Project Plan for the MSGP (this document)
- Implementing procedures

1.2 ORGANIZATION

ENV-CP is responsible for compliance oversight of the Laboratory's MSGP coverage. The Group is organized by teams under the line management direction of the Group Leader. Teams are crossfunctional and focus on specific Laboratory water quality responsibilities, deliverables, or

Stormwater MSGP for Industrial Activities Program	No. ENV-CP-QAPP-MSGP, R5	Page 6 of 40
	Effective Date: 11/04/2013	

products. Teams are guided by Team Leaders who have the responsibility to assure the program is completed and properly implemented.

The Team Leader coordinates the project and reports to the ENV-CP Group Leader. The Project Lead implements program oversight, coordinates contractor efforts (if there are any), and reports to the Team Leader. A QA Specialist is assigned to work for the Team Leader to provide quality assurance assistance, advice, and review. In addition, representatives from other groups may participate and contribute to this team as subject matter experts for project activities. The project organization is shown in Attachment 1.

Applicable regulatory drivers include the following:

- Clean Water Act (CWA)
- 2008 NPDES Multi-Sector General Permit (MSGP)
- DOE Order 450.1, Environmental Protection Program
- DOE Order 5400.5, Radiation Protection of Public and Environment
- P401, Procedure to Identify, Communicate, and Implement Environmental Requirements

1.3 RESPONSIBILITIES

The following table lists specific responsibilities:

Who	What
Group Leader	Assure that qualified staff complies with regulatory requirements associated with the MSGP.
Project Lead	Ensure that MSGP-related activities are performed in accordance with the requirements specified in this plan.
ENV-CP Staff	Perform MSGP-related activities as assigned by the Team Leader or Project Leader

2.0 PERSONNEL DEVELOPMENT

Qualified team members will be hired and trained as prescribed in ENV-DO-QP-115, *Personnel Training*. Minimum training requirements for ENV personnel are described in the ENV Division Qualification Standards. The LANL Human Resources Division maintains documentation of education qualification. Required MSGP qualifications and training plans are listed below.

2.1 MSGP CURRICULA

The MSGP Program requires personnel with the following training requirements:

MSGP Inspectors

Curricula 10697 ENV-RCRA MSGP Inspector
Item 43337 ENV-CP-QAPP-MSGP
Item 54892 ENV-RCRA-QP-022 MSGP Stormwater Corrective Actions

No. ENV-CP-QAPP-MSGP, R5

Page 7 of 40

Effective Date: 11/04/2013

Item 42415 ENV-DO-QP-101 Environmental Reporting Requirements for Releases or Events

Item 42547 ENV-DO-QP-111 Reporting Environmental Releases to Pueblo Governments

Item 40708 ENV-DO-QP-108 Preparation of External Correspondence for Review and Approval

Item 43172 ENV-DO-QP-112 Coordinating Regulatory Inspections

Item 42891 ENV-DO-QP-113 Tracking Issues and Actions

Item 43805 ENV-DO-QP-114 Logbook Use and Control

Item 45777 ENV-DO-QP-100 General Field Safety

Curricula 131 Field Worker Training Requirements

Item 43562 or 3583 or 16585 CPR/AED: LANL Workplace

Item 3574 or 13264 First Aid

MSGP SWPPP Preparers

Curricula 7814 ENV-RCRA MSGP SWPPP Preparer

Item 43337 ENV-CP-QAPP-MSGP

Item 56593 ENV-RCRA-QP-044 Preparing Storm Water Discharge Monitoring Reports (MDMRs)

for the NPDES Multi-Sector General Permit

Item 40708 ENV-DO-QP-108 External Correspondence

Item 43172 ENV-DO-QP-112 Coordinating Regulatory Inspections

Item 42891 ENV-DO-QP-113 Tracking Issues and Actions

Item 43805 ENV-DO-QP-114 Logbook Use and Control

Item 45777 ENV-DO-QP-100 General Field Safety

Curricula 51 ENV-RCRA Design Engineer

Item 44269, COE Review of LANL Produced Design Documents, AP-341-620

Item 44266, COE System Design Descriptions, AP-341-61

Item 44263, COE Engineering Drawings and Sketches, AP-341-608

Item 44261, COE Calculation, AP-341-605

Item 44258, COE Requirements and Criteria Document, AP-341-602

Item 44257, COE Functions & Requirements Document, AP-341-601

Item 43658, CORE Engineering Overview

Item 55428, COE Management Level Determination, AP-341-502

Item 54168, P342 Engineering Standards

Item 47029, COE LANL Review of Design by External Agencies, AP-341-622

Item 43666, Engineering Design Management

Item 43663, Engineering Technical Baseline

Item 44225, COE Evaluation of Vendor Information, AP-341-701

MSGP Visual Assessors

Curricula 10698 ENV-RCRA MSGP Visual Assessor

Item 43337 ENV-RCRA-QAPP-MSGP

Item 50493 ENV-RCRA-QP-064 MSGP Storm Water Visual Assessments

Item 42415 ENV-DO-QP-101 Environmental Reporting Requirements for Releases or Events

Item 42547 ENV-DO-QP-111 Reporting Environmental Releases to Pueblo Governments.

Item 40708 ENV-DO-QP-108 External Correspondence

Stormwater MSGP for Industrial Activities Program	No. ENV-CP-QAPP-MSGP, R5	Page 8 of 40
	Effective Date: 11/04/2013	

Item 43172 ENV-DO-QP-112 Coordinating Regulatory Inspections
Item 42891 ENV-DO-QP-113 Tracking Issues and Actions
Item 43805 ENV-DO-QP-114 Logbook Use and Control
Item 45777 ENV-DO-QP-100 General Field Safety

Curricula 131 Field Worker Training Requirements Item 43562 or 3583 or 16585 CPR/AED: LANL Workplace Item 3574 or 13264 First Aid

2.2 MSGP INSPECTOR QUALIFICATIONS

Inspections:

- Post high school education or experience in engineering or environmental science or a related field; or industrial site field experience involving stormwater pollution prevention.
- 2 years experience of completing MSGP inspections or 1 year MSGP inspection experience with the Certified Inspector of Sediment and Erosion Control (CISEC) certification.
- 6 months knowledge of LANL facility operations.
- Demonstrated ability, as determined by the Multi-Sector General Permit Project Lead and/or Water Quality Team Leader, to successfully and effectively evaluate and identify the following at industrial sites:
 - o Conditions and activities that could impact stormwater quality at the facility.
 - o Inadequate or ineffective BMPs.
 - o Required modification or maintenance of existing BMPs.
 - o Locations requiring new or additional BMPs.
 - o Potential pollutant sources associated with the facility.
 - o Appropriate and correct site stabilization measures.
- Demonstrated ability, as determined by the Multi-Sector General Permit Project Lead and/or Water Quality Team Leader, to evaluate the compliance status of each industrial facility and document identified issues during an inspection.
- Demonstrated ability, as determined by the Multi-Sector General Permit Project Lead and/or Water Quality Team Leader, to properly and effectively complete inspection reports, including the ability to perform the following:
 - o Prepare reports in a clear, concise manner, identifying site conditions and issues.
 - o Write legibly and describe conditions clearly and accurately.
 - o Use proper spelling and grammar.
 - o Complete the MSGP Routine Inspection Report forms accurately.
 - o Accurately enter findings into the Corrective Actions Report database.
- Conduct inspections in a professional manner.
- Be a member of, or contractor supporting, ENV-RCRA or ENV Division.

2.3 MSGP SWPPP PREPARER QUALIFICATIONS

SWPPP Preparation:

One of the 2 criteria below must be satisfied:

Stormwater MSGP for Industrial Activities Program	No. ENV-CP-QAPP-MSGP, R5	Page 9 of 40
	Effective Date: 11/04/2013	

- BS degree or experience in engineering, environmental science, or related field, with a
 background involving stormwater pollution prevention and regulatory compliance relating to
 MSGP sites and a 1 year minimum of LANL facility operations knowledge and 1 year
 experience of completing MSGP inspections; or
- Certified Professional in Erosion and Sediment Control (CPESC) or Professional Engineer (PE) with a demonstrated background in stormwater management, sediment and erosion control, and regulatory compliance.

In addition to:

- Demonstrated ability, as determined by the Multi-Sector General Permit Project Lead and/or Water Quality Team Leader, to:
 - Prepare SWPPPs per LANL format and in compliance with NPDES MSGP requirements.
 - o Identify and specify appropriate BMPs and stabilization measures.
 - o Identify potential pollutant sources associated with the facility.
 - o Perform necessary calculations to meet regulatory requirements.
 - o Prepare a site map.
 - o Be a member of, or contractor supporting, ENV-CP or ENV Division.

5.4 MSGP VISUAL ASSESSOR QUALIFICATIONS

Quarterly Visual Assessments:

- Education or experience in engineering, environmental science, or a related field; or industrial site field experience involving stormwater pollution prevention; and
- Completed ENV-RCRA training on how to collect and evaluate visual assessment; and
- Demonstrated ability, as determined by the Multi-Sector General Permit Program Lead and/or Water Quality Team Leader, to:
 - o Collect quarterly visual samples at the designated outfall.
 - o Complete the applicable portions of the MSGP Quarterly Visual Assessment Form.
 - Have working knowledge of the regulatory requirements in Section 4.2 of the MSGP.

5.5 TRAINING RESPONSIBILITIES

All personnel performing MSGP project-related work are required to obtain appropriate training prior to performing work governed by a procedure. Training for all project personnel will be performed and documented in accordance with ENV-DO-QP-115, *Personnel Training*.

The following table lists specific responsibilities regarding training requirements.

Who	What
Group Leader	Ensure project personnel meet all Laboratory training requirements.
Program Lead	Establish and document job descriptions for each position within the MSGP Project.
	Ensure all project personnel have the appropriate level of education,

Stormwater MSGP for Industrial Activities Program	No. ENV-CP-QAPP-MSGP, R5	Page 10 of 40
	Effective Date: 11/04/2013	

	experience, and training.
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3.0 QUALITY IMPROVEMENT

The MSGP Project subscribes to the principles of problem prevention and continuous improvement. The Project Lead is committed to evaluating improvement opportunities identified by trending and reporting.

The Project Lead provides verbal and written updates, as needed, to the Team Leader and Group Leader to keep group management apprised of the focus of the MSGP Project activities and to address any shortcomings that may be identified.

3.1 CORRECTIVE ACTIONS WITHIN ENV-RCRA

Corrective actions for all ENV-RCRA programs and projects are initiated, tracked, corrected, and documented according to P330-6 *Nonconformance Reporting*, P322-4 *Laboratory Performance Feedback and Improvement Process*, *SD330*, *Los Alamos National Laboratory Quality Assurance Program*, and Division/Group procedures.

3.3 QUALITY IMPROVEMENT RESPONSIBILITIES

The following table lists specific responsibilities for quality improvement:

What
Monitor program performance and ensure issues are corrected in a timely manner.
Identify opportunities for process improvement, health and safety enhancement, environmental protection, or other improvements of the program's operations.
Discuss the identified opportunities with the Project Lead. Ensure issues are reported and corrected in a timely manner.

4.0 DOCUMENT CONTROL/RECORDS MANAGEMENT

The program lead, at least one reviewer, and the Group Leader will approve all revisions to this plan. Revisions to the plan will be provided to the QA Specialist. This plan will be reviewed and revised (if necessary) biennially.

This document will be controlled under the organization's document control system (ENV-DO-QP-106, *Document Control*). Controlled copies of ENV documents are located on the Internet: http://int.lanl.gov/orgs/env/rcra/qa.shtml, all other copies are uncontrolled.

Procedures will be developed as necessary and in accordance with ENV-DO-QP-105, *Preparation, Review, and Approval of Procedures*.

Stormwater MSGP for Industrial Activities Program	No. ENV-CP-QAPP-MSGP, R5	Page 11 of 40
	Effective Date: 11/04/2013	

Phone calls, email, or fax communications will be documented and controlled if the content provides direction or results in decisions.

4.1 PROGRAM RECORDS

The number, type, and detail of all records to be kept will provide sufficient information to allow an individual with equivalent education and training to verify or reconstruct the results. Implementing procedures specify the records, forms, logbook entries, or other information to be kept as documentation of the performance of the procedure.

Records to be kept in the ENV-CP records system include the following:

- Copy of the Multi-Sector General Permit
- Annual Site Compliance Evaluation reports
- Corrective Action Reports
- · Reports and certifications required by MSGP
- Records of all data used to complete MSGP Notice of Intent
- Discharge Monitoring Reports

Records to be kept by the Deployed Environmental Professional assigned to the FOD in which the industrial facility resides includes the following:

- Copies of Stormwater Pollution Prevention Plans
- Reports and certifications required by MSGP
- Routine Inspection Forms
- Supporting analytical data reports including Visual Assessment Forms
- Corrective Action Reports
- Discharge Monitoring Reports
 - Annual Site Compliance Evaluation reports

All ENV-CP records will be maintained and available (after the deadline for submittal as given in applicable procedures) for auditing in the records center at ENV-CP (ENV-DO-QP-110, *Records Management*). Records will be archived in compliance with Laboratory and DOE requirements for records retention, storage, and management.

4.2 PROGRAM RECORDS RESPONSIBILITIES

The following table lists specific responsibilities for program records management:

Who	What
Team Leader	Ensure QAPP meets minimum specifications for documentation and records of the SD330, Los Alamos National Laboratory Quality Assurance Program
Program Lead	Conduct annual review of records to ensure compliance with project requirements.

Stormwater MSGP for Industrial Activities Program	No. ENV-CP-QAPP-MSGP, R5	Page 12 of 40
	Effective Date: 11/04/2013	

4.3 ELECTRONIC MEDIA

The project will utilize electronic means as necessary to maintain data and perform calculations on these data. Electronic means will not however replace paper copies. All records that must be maintained to meet the requirements of the Permit will be kept in hard copy as the official record.

4.4 DATABASES

Analytical data will be maintained in the LANL Water Quality Database (WQDB). Security, verification, and validation of data are maintained in accordance with LANL procedures.

<u>Security</u> -- ENV data will be maintained electronically in a secure manner and will be protected from loss by being maintained as part of an official dataset that is backed up at least weekly.

<u>Verification of data</u> -- All ENV data, either electronic or hardcopy must undergo a verification and validation process that includes the following:

Verification

- Paper deliverables match electronic data that are stored in an official dataset. Paper deliverables include:
 - chain of custody for sample data
 - field log, if applicable, for sample data
 - data packages for analytical data
 - documentation packages for supporting data (e.g., geographic information system)
- All hand-entered data have been verified by a person other than the individual performing the entry
- Electronic uploads of data (e.g., electronic data deliverables) have been spot checked (at least 10%) to ensure the upload performed as expected
- Hard copy supporting information (e.g., data packages, chains of custody, validation reports, etc.) is evaluated for completeness, archived, and available for audit

<u>Validation</u> --analytical data validation is the responsibility of the EP Directorate. The process will include the following:

- Validate that sample and quality assurance/quality control data and information meet contract specifications
- Assign validation flags, as appropriate
- Identify the analytical supplier
- Identify the analytical method

<u>Verification of calculations</u> -- A person other than the person who generated the query will review for accuracy all compliance related calculations performed in a database through queries. This review will be documented and forwarded to the appropriate record series.

Stormwater MSGP for Industrial Activities Program	No. ENV-CP-QAPP-MSGP, R5	Page 13 of 40
	Effective Date: 11/04/2013	

Spreadsheets:

<u>Backups</u> -- All spreadsheets used to hold data and generate reports to be used in demonstrating compliance will be maintained in a secure location. The preferred location is on the Group server. Spreadsheets will be backed up at least weekly.

<u>Verification of data</u> -- All compliance-related data uploaded into a spreadsheet will be verified to be accurate against the original paper copy. Data that are uploaded through electronic means will undergo a 10% verification. Data that are uploaded through manual means will undergo a 100% verification. Someone other than the data entry person must perform the 100% review. This review will be documented and forwarded to the appropriate record series.

<u>Verification of calculations</u> -- A person other than the person who generated the spreadsheet will review for accuracy all compliance-related calculations performed in a spreadsheet. This review will be documented and forwarded to the appropriate record series. Modifications to the function of these spreadsheets will also be verified in this manner.

<u>Software control</u> -- The integrity of spreadsheets will be ensured by limiting access to these spreadsheets to only trained, authorized personnel. Additionally, at least once per year, the function of the spreadsheets will be verified by hand calculations. Documentation of this review will be forwarded to the appropriate record series.

4.4 IMPLEMENTATION RESPONSIBILITIES

The following table lists specific responsibilities:

Who	What
Program Lead	Regularly assess data integrity methods used by MSGP personnel.

5.0 PLANNING AND PERFORMING WORK

Work conducted under this program ensures compliance with the 2008 Multi-Sector General Permit; the Clean Water Act; and DOE Orders 450.1, *Environmental Protection Program*, and 5400.5, *Radiation Protection of the Public and Environment*.

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

Work will be performed according to applicable plans and implementing procedures. The team leader will provide first line supervision of personnel assigned to project tasks to ensure work is performed to achieve project quality specifications. Before changing a work process that affects the project quality specifications, the team leader will ensure the same level of planning and review as used in the initial project planning steps.

Stormwater MSGP for Industrial Activities Program	No. ENV-CP-QAPP-MSGP, R5	Page 14 of 40
	Effective Date: 11/04/2013	

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 of contributing ideas for improving work processes and will be involved in work process design, process evaluation, and providing the feedback necessary for improvement.

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

5.3 WORK PERFORMANCE

Management should ensure that the following are clearly identified and conveyed to workers prior to beginning work:

- customer and data requirements for the work and final product;
- acceptance criteria applicable to work and final product;
- hazards associated with the work;
- technical standards applicable to work and final product; and
- safety, administrative, technical, and environmental controls to be employed during the work.

The work processes used to meet the regulatory requirements and the requirements of this plan can be divided as follows:

- Stormwater Pollution Prevention Plans (Multi-Sector General Permit Section 5.0)
- Inspections (Multi-Sector General Permit Section 4.0)
- Monitoring (Multi-Sector General Permit Section 6.0)
- Discharge Monitoring Reports (Multi-Sector General Permit Section 7.1 Reporting Monitoring Data to EPA)
- Best Management Practices (Multi-Sector General Permit Section 2.0 –Control Measures)
 - Reporting and Recordkeeping (Multi-Sector General Permit Section 7.0)

5.4 STORMWATER POLLUTION PREVENTION PLAN

Stormwater Pollution Prevention Plan (SWPPP) development and implementation by the regulated industrial facility is required for MSGP compliance (refer to Section 8.0 of the 2008 MSGP for Sector-Specific Requirements for Industrial Activity and Appendix D, Sectors of Industrial Activity Covered by This Permit). The SWPPP is intended to document the selection, design, and installation of control measures. Additional documentation requirements are intended to document the implementation (including inspection, maintenance, monitoring, and corrective

Stormwater MSGP for Industrial Activities Program	No. ENV-CP-QAPP-MSGP, R5	Page 15 of 40
	Effective Date: 11/04/2013	

action) requirements identified in the 2008 MSGP permit. The SWPPP is a written assessment of potential sources of pollutants in stormwater runoff and control measures that will be implemented at the specific industrial facility to minimize the discharge of pollutants in runoff from the site. These control measures include site-specific Best Management Practices (BMPs), inspections, employee training, and reporting. The procedures detailed in the SWPPP must be 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 requiring Facility Management support in implementation, improvement, and revision of the Plans.

5.4.1 DISCHARGE MONITORING REPORTS

The Laboratory is required to submit analytical results of stormwater monitoring and to keep the results with the facility specific SWPPP. The Laboratory must certify and submit analytical monitoring results obtained from each facility specific sampling location (i.e., the sampling station located at the monitored outfalls) associated with industrial activity on a Discharge Monitoring Report (DMR) form or use it to report any of the following:

- no discharge for all outfalls for a specific monitoring period;
- the industrial facility status has changed to inactive and unstaffed;
- the facility status has changed to active; or
- no further pollutant reductions are achievable for all outfalls and for all pollutants (see Section 6.2.1.2 of the 2008 MSGP).

5.4.2 ANNUAL SITE COMPLIANCE EVALUATION REPORT

The Laboratory is required to submit an annual report (Attachment 2) to the Environmental Protection Agency (EPA) that includes the findings from the comprehensive site inspection and any corrective action documentation. The documentation must include the following:

- identification of the condition triggering the need for corrective action review;
- date and description of the problem identified;
- summary of the corrective action taken or to be taken;
- notice of whether SWPPP modifications are required as a result of the discovery or corrective action:
- date corrective action was initiated; and
- date corrective action was completed or is expected to be completed.

The following table lists responsibilities:

Who	What
Project Lead	Ensure that SWPPP requirements are performed in accordance with the MSGP.

Stormwater MSGP for Industrial Activities Program	No. ENV-CP-QAPP-MSGP, R5	Page 16 of 40
	Effective Date: 11/04/2013	

Facility Management Support	Implement SWPPP requirements as recommended by the Project
	Lead.
ENV-CP Staff and Deployed	Assure SWPPP implementation as required by MSGP.
Environmental Professionals	
(DEPs)	
DEPs	Develop, modify, and update SWPPPs and assist facility personnel with SWPPP implementation.

5.5 Inspections

The MSGP requires periodic inspection of industrial processes and maintenance of (BMPs) to assure effectiveness of control measures. The Laboratory has implemented a quarterly or monthly inspection process (depending on the industrial facility) to support this determination. A copy of the Routine Inspection Form is provided in Attachment 3.

5.6 STORMWATER MONITORING

Benchmark stormwater monitoring is the required mechanism for determining the effectiveness of corrective actions and meeting the requirements of the MSGP. Refer to Attachment 4, *MSGP Facilities and Stormwater Monitored Outfalls Associated with Industrial Activity 2011*, for a list of Laboratory sites that have monitoring requirements. Laboratory management has made an investment in time and materials, in addition to a commitment to comply with the 2008 MSGP Permit. All stormwater monitoring is conducted by ENV-CRP personnel. The MSGP Project currently has a network of 23 monitoring stations. Considerations to be used for MSGP stormwater monitoring development decisions will include MSGP requirements, new state water quality standards, Administrative Authority requests, or new permit requirements. Stormwater monitoring will be conducted as specified in the MSGP.

Effluent Limitations stormwater monitoring is required for the following type of facility of LANL:

Regulated	Parameter	Effluent	Monitoring	Sample Type
Activity		Limit	Frequency	
Discharges from asphalt emulsion facilities	Total Suspended Solids	23.0 mg/L daily max. 15.0 mg/L, 30-day avg.	1/year	grab
	pН	6.0-9.0 s.u.	1/year	grab
	Oil and Grease	10.0 mg/L 30-day avg.	1/year	grab

Stormwater MSGP for Industrial Activities Program	No. ENV-CP-QAPP-MSGP, R5	Page 17 of 40
	Effective Date: 11/04/2013	

This determination was made in accordance with Section 1.1.2.4 of the MSGP. The TA-60 Asphalt Batch Plant meets the criteria for effluent limitations monitoring in this section. Exceedances of the effluent limits in this table require immediate action. In addition, if follow-up monitoring after corrective actions also exceeds an effluent limit guideline, an Exceedance Report for Numeric Effluent Limits must be submitted to EPA no later than 30 days after lab results have been received and verified.

Impaired Waters stormwater monitoring is required for discharges made to an impaired water. The canyons within and surrounding Los Alamos National Laboratory are declared as Impaired Waters by the New Mexico Environment Department. The pollutants vary from canyon to canyon and are listed in Attachment 5, *Pollutants Under Impaired Waters Monitoring*. 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.

Visual assessments are also required by the MSGP and are an important tool for collecting information to determine the effectiveness of controls in preventing potential contaminants from migrating off Laboratory property. Accordingly, field personnel must conduct visual assessments for stormwater collected at the monitoring stations or discharged through substantially identical outfalls associated with industrial facilities located throughout the Laboratory. Information recorded will document all observations that are required by the MSGP (see ENV-RCRA-QP-064, *Multi-Sector General Permit Storm Water Visual Inspections*).

The Laboratory's MSGP permit requires stormwater quality monitoring to evaluate compliance with water quality standards and evaluation against benchmarks. Parameters sampled at the monitoring stations are selected based on permit requirements and the results of the previous year.

Four stormwater samples per year are required under the 2008 MSGP, but it is not necessary to collect them in consecutive quarters if climatic conditions that prevented quarterly collection are documented (see *Adverse Weather Conditions* in Section 6.1.5 of the MSGP). Sample locations are listed in Attachment 4, *MSGP Facilities and Stormwater Monitored Outfalls Associated with Industrial Activity 2011*, and collection will be conducted in accordance with LANL and NPDES Permit requirements and the current year MSGP Sampling and Analysis Plan.

Stormwater samples are used to demonstrate compliance with water quality standards and requirements to evaluate results against benchmark parameters (Attachments 5 and 6). Any persons involved in the preparation, retrieval, and analysis must maintain positive control of samples at all times until sample disposal. ENV-RCRA personnel will follow guidance in the Associate Directorate for Environmental Programs (ADEP) document ENV-WQH-QP-029, Creating and Maintaining a Chain of Custody, as well as, ENV-RCRA-QP-047, Inspecting Storm Water Runoff Samplers and Retrieving Samples, and ENV-RCRA-QP-048, Processing MSGP Storm Water Samples.

Stormwater MSGP for Industrial Activities Program	tivities Program No. ENV-CP-QAPP-MSGP, R5 Page 18 of	
	Effective Date: 11/04/2013	

Chain of custody is maintained during:

Activity	Responsibility
Sample collection and preparation	All persons (other than analytical personnel) performing sample preparation and collection will be trained to sample collection procedures and must adhere to the chain of custody requirements therein.
Analysis	Analytical laboratories performing sample analysis will maintain sufficient procedures to ensure positive control of samples as specified in the existing Statement of Work.
Storage/ disposal	Analytical laboratories will maintain retained samples and/or sample portions under chain of custody until reanalysis, or ultimate disposal.

The LANL Sample Management Office (SMO) will be the central point for all analytical laboratory selection, evaluations, sample submittal, and data return. The SMO will evaluate potential analytical laboratories, prepare analytical statements of work that include requirements, and arrange contracts with selected laboratories for analysis of all samples. The SMO will accept samples from field collection personnel, process the sample, ship the samples to the off-site analytical laboratories, and receive the data packages from the laboratories.

All analytical data will be received from analytical laboratories in electronic format and uploaded into a database. All received data will be checked for completeness and adherence to contract requirements. After uploading, all data will undergo verification and validation (V&V) 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 will be verified and validated by the SMO when field personnel deliver samples to the SMO.

If significant V&V issues are identified, results will be forwarded to and discussed with the responsible project leads.

Data issues that result from procedural failures, personnel errors, or other failures to follow requirements will be documented as issues and corrected according to ENV-DO-QP-113, *Tracking Issues and Actions*.

The following table lists responsibilities:

Who	What
Project Lead	Ensure that all project monitoring requirements are performed in accordance with the MSGP.
	Review and update the MSGP Sampling and Analysis Plan annually.

Stormwater MSGP for Industrial Activities Program	No. ENV-CP-QAPP-MSGP, R5	Page 19 of 40
	Effective Date: 11/04/2013	

	When complete, communicate findings to the team members for implementation. Make appropriate arrangements with the SMO to accept, process, and submit samples to an analytical laboratory for required analyses as specified in the SAP.
MSGP Water Quality Compliance Personnel	 Implement monitoring program as required by the MSGP Project Lead. Conduct stormwater sampling in accordance with the MSGP Sampling and Analysis Plan and applicable procedures. Ensure procedures for sample handling and control during sample preparation and retrieval are followed.
Sample Management Office	 Develop Statements of Work (SOW) for all analytical laboratories that perform analytical work for the MSGP project in accordance with P840-1, <i>Procurement Quality</i>. Ensure analytical laboratories comply with the DOE's SOW. Conduct an annual audit of the laboratory to ensure compliance with the SOW. Approve Statements of Work for analytical laboratories that are contracted to analyze water samples. Approve analytical laboratories that are contracted to analyze water samples for regulatory compliance purposes. Accept samples and submit them to and approved analytical laboratory for analysis. Track progress of samples at the analytical laboratory and resolve issues with sample analysis. Receive data packages from the analytical laboratory and enter data into the database. Provide the MSGP Project Lead with monthly invoice updates. Perform V&V of field data submitted and uploaded from forms when samples are submitted to the SMO.
Operations Integration Office (OIO), Systems Integration (SI)	Perform V&V of data packages uploaded by the SMO or send data packages to a subcontractor company for independent V&V.

5.7 DISCHARGE MONITORING REPORTS

The Laboratory is required to submit analytical results of stormwater monitoring and to keep the results with the specific SWPPP. The Laboratory must submit analytical monitoring results obtained from each monitoring station associated with industrial activity on a MSGP Discharge Monitoring Report (MDMR) form (one form must be submitted for each storm event from which, a sample was collected).

MDMRs shall be written in accordance with ENV-RCRA-QP-044, *Preparing Storm Water Discharge Monitoring Reports (MDMRs) for the NPDES Multi-Sector General Permit.*MDMRs shall be submitted to EPA within 30 calendar days of receiving validated

Stormwater MSGP for Industrial Activities Program	No. ENV-CP-QAPP-MSGP, R5	Page 20 of 40
	Effective Date: 11/04/2013	

analytical results. Refer to the DMR language under the SWPPP Section above for additional requirements.

Site analytical requirements are defined by the industrial activity in the MSGP permit. All MSGP analytes applicable to LANL are consistent with the requirements of 40 CFR Part 136, *Guidelines Establishing Test Procedures for the Analysis of Pollutants*.

Sample analytical requirements vary by site depending on the industrial activities performed at the site. Refer to Attachment 5 for a list of analytes by industrial sector. If an insufficient quantity of sample is available, then sample collection will be prioritized at that location for future events. Additional samples may be collected to meet permit requirements.

ENV-RCRA shall refer to the requirements of the 2008 Multi-Sector General Permit, and the most current MSGP Sampling and Analysis Plan to determine the priorities of required analyses.

The following table lists responsibilities:

Who	What
Project Lead	 Ensure implementing procedures for sample analyses are used. Ensure that MDMRs are submitted to EPA and NMED in accordance with the MSGP.
MSGP Water Quality Compliance Personnel	Assure MDMRs are completed and certified as required by the MSGP and have received a full quality assurance review.

5.8 ADVERSE WEATHER CONDITIONS AND CLIMATES WITH IRREGULAR STORMWATER RUNOFF

Section 4.2.3 of the 2008 MSGP allows the industrial facility to take a substitute sample during the next qualifying storm event when adverse weather conditions prevent the collection of samples during a specific quarter. 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. Documentation of the rationale for no visual assessment for the quarter must be included in the facility specific SWPPP.

Since LANL is located in an area where limited rainfall occurs during parts of the year (i.e., in a semi-arid climate) and has periods of freezing conditions, LANL has identified an alternative monitoring period of four quarters as follows for each calendar year.

April 1-May 31

Stormwater MSGP for Industrial Activities Program	No. ENV-CP-QAPP-MSGP, R5	Page 21 of 40
	Effective Date: 11/04/2013	

- June 1-July 31
- August 1-September 30
- October 1-November 30

The following table lists specific responsibilities.

Who	What
Project Lead	Ensure that the monitoring schedule is documented in facility specific SWPPPs and provided to EPA on the MDMRs.

5.9 REPORTING AND RECORDKEEPING

All monitoring data shall be collected in accordance with the requirements specified in the 2008 MSGP. LANL will submit monitoring results to EPA within 30 days of receiving validated laboratory results. The address for submittal of monitoring results is as follows.

U.S. Environmental Protection Agency Office of Water, Water Permits Division Mail Code 4203M, ATTN: MSGP Reports 1200 Pennsylvania Avenue, NW Washington, D.C. 20460

LANL shall keep copies of the following documentation for a period of at least 3 years from the date that LANL's coverage under the MSGP expires or is terminated.

- SWPPP (including any modifications made during the term of the 2008 MSGP)
- Additional documentation requirements as identified in Section 5.4 of the MSGP
- All reports and certifications required by the MSGP
- Monitoring data
- Records of all data used to complete the NOI.

The following table lists specific responsibilities:

Who	What
Project Lead	Periodically audit MSGP records to ensure documentation of compliance is being retained.
Deployed Environmental Professionals	Retain records as required by the MSGP for industrial facilities located in their FOD.

Stormwater MSGP for Industrial Activities Program	No. ENV-CP-QAPP-MSGP, R5	Page 22 of 40
	Effective Date: 11/04/2013	

5.10 BEST MANAGEMENT PRACTICES

It is critical that the Laboratory be able to effectively inspect and maintain the Best Management Practices that have been installed at various locations. Quarterly inspections must be completed and provided to the Project Lead for inclusion into the records system. In addition, the Project Leader conducts a Comprehensive Annual Site Inspection and writes a report to document the status of BMPs and other identified corrective actions. This report is sent to EPA each year. Laboratory management has made an investment in time and materials, in addition to a commitment to minimizing the potential migration of contaminants in stormwater. Report findings are evaluated and in conjunction with facility personnel, BMPs are modified, installed, or removed as necessary.

The following table lists responsibilities.

Who	What	
Project Lead	Assist facility personnel and Deployed Environmental Professionals with implementation, inspection, and maintenance of BMPs at MSGP facilities.	
Facility Management Support	 Coordinate with Project Lead and provide funding as needed to install, inspect, maintain and implement identified BMPs. Certify the corrective actions identified by the Project Lead and/or facility personnel (or their representatives) for their individual facilities in the Annual Report. 	

5.11 INFORMATION MANAGEMENT

The Water Quality Database is a database information system designed in part to support the information management (IM) needs of the Laboratory's MSGP. MSGP support includes stormwater discharge monitoring reporting, Geographic Information System (GIS) development, and other IM activities as needed.

The following table lists responsibilities:

Who	What
Project Lead	Coordinate with IM support personnel to meet regulatory requirements.

5.12 RESPONDING TO WATER QUALITY EXCEEDANCES

The identification of a pollutant source(s) contributing to a water quality exceedance will be addressed through the creation of a corrective action that is entered into the Corrective Acton

Stormwater MSGP for Industrial Activities Program	No. ENV-CP-QAPP-MSGP, R5	Page 23 of 40
	Effective Date: 11/04/2013	

Report database in accordance with ENV-DO-QP-113, *Tracking Performance Feedback and Actions* and *ENV-RCRA-QP-022*, *MSGP Stormwater Corrective Actions*. Federal stormwater regulations implemented under the Laboratory's MSGP (40 CFR 122, EPA Administered Permit Programs: The National Pollutant Discharge Elimination System) require that corrective action be taken if exceedances of water quality standards or MSGP numeric effluent limits are identified. Corrective actions are typically accomplished by modifying, as appropriate, existing BMPs and SWPPPs.

When a water quality exceedance occurs, the Laboratory will submit the data on the required MDMRs, investigate the occurrence, and document corrective actions.

When an exceedance of the MSGP benchmark parameters is detected, the Project Lead will assure the analytical data is reviewed, notify appropriate SWPPP owners, and recommend and track corrective actions where required.

The following steps lead to corrective actions:

STEP	Action
1	Establish that an analytical result from a location is valid and has exceeded a standard or MSGP benchmark.
2	Evaluate and demonstrate that the analyte is of LANL origin, if possible.
3	Determine the source and assign responsibility for the corrective action.
4	Develop a corrective action plan.

The following table lists responsibilities:

Who	What
Project Lead	 Assure that analytical data is reviewed and accurate. Notify appropriate SWPPP owners, Laboratory management, and Deployed Environmental Professionals. Develop a corrective action plan. Follow up with corrective actions if required. Track corrective actions.
Facility Management and DEP	 Review analytical data with Project Lead and provide input into a possible corrective action necessary to improve water quality where needed. Evaluate and improve BMPs in accordance with site conditions, industry standards, and manufacturer

	Page 24 of 40
Effective Date: 11/04/2013	

recommendations.

5.13 Instrumentation and Equipment

Compliance will be tracked by performing inspections of samplers and other associated equipment, inspecting BMPs, and conducting annual site compliance evaluations. Adequate records will be maintained to demonstrate the operating history of essential instrumentation and equipment.

LANL will properly operate and maintain all systems of monitoring and control and related appurtenances which are installed or used to achieve compliance with the MSGP and the SWPPP. Backup instrumentation and equipment will be timely deployed in the event of equipment failure.

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

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

The following table lists specific responsibilities.

Who	What	
Project Lead	Ensure data are collected and equipment is operated and maintained in accordance with project requirements.	
	Provide equipment maintenance and calibration specifications and ensure MSGP Water Quality Compliance Team personnel operate and conduct field activities in accordance with implementing procedures and specific work orders.	

6.0 DESIGN

Design activities will be conducted and reviewed in accordance with PD340, *Conduct of Engineering* and P341, *Engineering Process Manual*.

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

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

Stormwater MSGP for Industrial Activities Program	No. ENV-CP-QAPP-MSGP, R5	Page 25 of 40
	Effective Date: 11/04/2013	

Formal design reviews, including design verifications and evaluation of design changes, will be 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.

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.

The following table lists responsibilities.

Who	What
Project Lead	Provide input to the design process in accordance with appropriate standards, requirements, and implementing procedures.
	 Determine the qualifications required to perform a review of design documents.
	 Identify a resource with skills, knowledge, ability, training, and certifications required to complete the review of the facility engineering design documents.
	Communicate the results of the review to the requestor.
ENV-CP Staff	Review design documents and requests as assigned.
	Inform the Project Lead of concerns regarding the facility engineering designs.

7.0 PROCUREMENT

Items and services required for this process are commercial grade in nature and no special procurement requirements or needs are necessary. All procurements will be made in accordance with P840-1, *Procurement Quality*. For items and all services for which special requirements are necessary, the Project Lead and project members will identify such items or services.

The following table lists responsibilities:

Who	What
Group Leader	Ensure all procurements are conducted in accordance with P840-1.
Project Lead	Recommend to Group Leader contracting items and services. Develop acceptance criteria.
ENV-CP Staff	Identify potential suppliers of products or services necessary to complete work activities that must be procured from outside ENV-RCRA.

Stormwater MSGP for Industrial Activities Program	No. ENV-CP-QAPP-MSGP, R5	Page 26 of 40
	Effective Date: 11/04/2013	

8.0 INSPECTION AND ACCEPTANCE TESTING

Any materials or services will be inspected and/or tested prior to acceptance for use in this project in accordance with P330-8, *Inspection and Test for Acceptance*. Most supplies used during performance of project activities are commercial grade in nature and require no special acceptance practices or procedures.

The following table lists responsibilities:

Who	What
Group Leader	Ensure procedures for inspection meet SD330, Los Alamos National Laboratory Quality Assurance Program requirements.
Project Lead	Verify that all materials and services meet acceptance criteria.
ENV-CP Staff	Follow established procedures for inspection and acceptance testing.

9.0 MANAGEMENT ASSESSMENT

The ENV-CP Group conducts internal management assessments of projects and programs in accordance with the requirements in P328-3, *Management Assessment* and P328-4, *Management Observation and Verification*. Assessments of the program are documented and filed as records.

When violations of requirements are found during a management assessment, a nonconformance report is initiated in accordance with P330-6, *Nonconformance Reporting* for nonconforming items.

Nonconforming services or processes are tracked and documented in accordance with P322-4, *Issues and Corrective Action Management*.

The following table lists responsibilities:

Who	What
Group Leader	Ensure management self-assessments for the MSGP program are conducted as specified in implementing procedures.
Project Lead	Ensure program management self-assessments are conducted.

Stormwater MSGP for Industrial Activities Program	No. ENV-CP-QAPP-MSGP, R5	Page 27 of 40
	Effective Date: 11/04/2013	

10.0 INDEPENDENT ASSESSMENT

Independent assessments are those assessments conducted by organizations external to ENV-RCRA. 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*.

Periodically audits/assessments will be conducted, with input from the Project Lead identifying one or more areas of the project to be audited.

The following table lists responsibilities:

Who	What
Project Lead	Approve audit schedules.
	Provide input to the QA Specialist as to the content of audit.
	 Review audit reports for factual accuracy. Address all findings and implement corrective actions as appropriate.
QA Specialist	Identify areas to be addressed during internal audits.
	 Contract with the Quality Management Group to perform annual internal audits.
	 Review audit procedures to ensure they meet the requirements in this section.
Team Members	Cooperate with auditors by providing information, data, etc.
	Implement corrective actions as directed by the Project Lead.

11.0 ATTACHMENTS

Attachment 1- MSGP Program Organization

Attachment 2 – Annual Reporting Form

Attachment 3 – Routine Inspection Form

Attachment 4 – MSGP Facilities and Storm Water Monitored Outfalls Associated with Industrial Activity 2011, Permit NMR05GB21

Attachment 5 – Pollutants under Impaired Waters Monitoring

Attachment 6 – Analytes by Industrial Sector

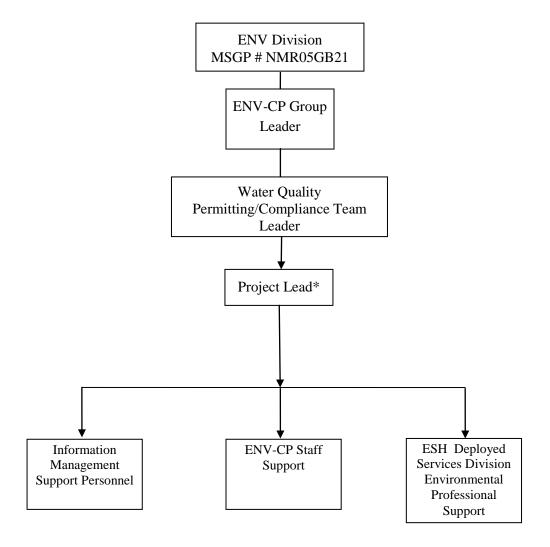
Attachment 7 – References and Guidance Documents

No. ENV-CP-QAPP-MSGP, R5

Page 28 of 40

Effective Date: 11/04/2013

ATTACHMENT 1- MSGP PROGRAM ORGANIZATION



^{*}Project Lead acts as liaison and will work directly with Team Leaders for staff assignments.

Stormwater MSGP for	r Industrial	Activities	Progran
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No. ENV-CP-QAPP-MSGP, R5

Page 29 of 40

Effective Date: 11/04/2013

ATTACHMENT 2 – ANNUAL REPORTING FORM

	NPDES Permit Tracking No.:
United States Environmental Protection Agency Washington, DC 20460	
Annual Reporting Form	
A. GENERAL INFORMATION	
1. Facility Name:	
2. NPDES Permit Tracking No.:	
3. Facility Physical Address:	
a. Street:	
b. City: c. State: d. Zip Code:	-
4. Lead Inspectors Name: Title: Title:	
Additional Inspectors Name(s):	
5. Contact Person: Title:	
Phone: Ext E-mail: E-mail:	
6. Inspection Date: / / / / / / / / / / / / / / / / / / /	
B. GENERAL INSPECTION FINDINGS	
1. As part of this comprehensive site inspection, did you inspect all potential pollutant sources, including areas where industrial activity ma	y be exposed to stormwater?
If NO, describe why not:	
NOTE: Complete Section C of this form for each industrial activity area inspected and included in your SWPPP or as newly identified in B may be exposed to stormwater.	.2 or B.3 below where poliutants
2. Did this inspection identify any stormwater or non-stormwater outfalls not previously identified in your SWPPP? YES NO	
If YES, for each location, describe the sources of those stormwater and non-stormwater discharges and any associated control measures.	ures in place:

	NPDES Permit Tracking No.
Did this inspection identify any sources of stormwater or non-stormwater discharges not previously identified in your SWPPP?	S NO
If YES, describe these sources of stormwater or non-stormwater pollutants expected to be present in these discharges, and any con	ntrol measures in place:
Did you review stormwater monitoring data as part of this inspection to identify potential pollutant hot spots? 🔲 YES 🔲 NO 🖂	NA, no monitoring performed
If YES, summarize the findings of that review and describe any additional inspection activities resulting from this review:	
Describe any evidence of pollutants entering the drainage system or discharging to surface waters, and the condition of and around or dissipation measures to prevent scouring:	utfalls, including flow
Have you taken or do you plan to take any corrective actions, as specified in Part 3 of the permit, since your last annual report submis authorization to discharge under this permit if this is your first annual report), including any corrective actions identified as a result of transpection? YES NO	sion (or since you received his annual comprehensive site
If YES, how many conditions requiring review for correction action as specified in Parts 3.1 and 3.2 were addressed by these corrective actions?	
OTE: Complete the attached Corrective Action Form (Section D) for each condition identified, including any conditions identified as a	result of this comprehensive

Stormwater MSGP for Industrial Activities Program

Page 30 of 40

No. ENV-CP-QAPP-MSGP, R5 Effective Date: 11/04/2013

Stormwater MSGP for Industrial Activities Program	No. ENV-CP-QAPP-MSGP, R5	Page 31 of 40		
	Effective Date: 11/04/2013			

			NPD	ES Pe	rmit T	rackir	ng No.:
					Ш		
C. INDUSTRIAL ACTIVITY AREA SPECIFIC FINDINGS						-	
Complete one block for each industrial activity area where pollutants may	be expose	d to stormwater. Copy this page for addition	nal ind	ustrio	l activ	vity e	rose
In reviewing each area, you should consider: Industrial materials, residue, or trash that may have or could come ir Leaks or spills from industrial equipment, drums, tanks, and other co Offsite tracking of industrial or waste materials from areas of no expt Tracking or blowing of raw, final, or waste materials from areas of no	nto contact ontainers;	with stormwater;	iai iiiu	ustria	aun	nty ar	eas.
INDUSTRIAL ACTIVITY AREA:		·					
1. Brief Description:							
Are any control measures in need of maintenance or repair?	☐ YES	□NO					
Have any control measures failed and require replacement?							
Are any additional/revised control measures necessary in this area?	☐ YES	□ NO					
If YES to any of these three questions, provide a description of the problem: Corrective Action Form)		_	the at	tached	ı		
INDUSTRIAL ACTIVITY AREA: 1. Brief Description:							
Are any control measures in need of maintenance or repair? Have any control measures failed and require replacement?	☐ YES	□ NO					
Are any additional/revised c necessary in this area?	YES	□ NO					
If YES to any of these three questions, provide a description of the problem: Corrective Action Form)			n the at	tached	i		
INDUSTRIAL ACTIVITY AREA:							
Brief Description:							
Are any control measures in need of maintenance or repair?	☐ YES	□ NO					
3. Have any control measures failed and require replacement?	☐ YES	□NO					
4. Are any additional/revised BMPs necessary in this area?	☐ YES	□ NO					
If YES to any of these three questions, provide a description of the problem: Corrective Action Form)	(Any neces	ssary corrective actions should be described on	the att	ached			

Stormwater MSGP for Industrial Activities Program	No. ENV-CP-QAPP-MSGP, R5	Page 32 of 40
	Effective Date: 11/04/2013	

			NPDE	S Perr	nit Tra	cking	No.:
			Ш		Ш	Ш	
		NOTE: Copy this page and attach	addition	nal pag	es as	neces	sary
INDUSTRIAL ACTIVITY AREA:							
1. Brief Description:							
2. Are any control measures in need of maintenance or repair?	☐ YES	□NO					
3. Have any control measures failed and require replacement?	☐ YES	□NO					
4. Are any additional/revised BMPs necessary in this area?	☐ YES	□NO					
If YES to any of these three questions, provide a description of the Corrective Action Form)	ne problem:	(Any necessary corrective actions should be described on the	e attac	hed			
Corrective Action Form)							
INDUSTRIAL ACTIVITY AREA:							\dashv
1. Brief Description:							
T. Sher Description.							
Are any control measures in need of maintenance or repair?	☐ YES	□NO					
Have any control measures failed and require replacement?	☐ YES	□NO					
Are any additional/revised BMPs necessary in this area?	☐ YES	□NO					
If YES to any of these three questions, provide a description of the	ne problem:	(Any necessary corrective actions should be described on the	e attac	hed			
Corrective Action Form)							
							-
INDUSTRIAL ACTIVITY AREA:							
1. Brief Description:							
	□ v=•	FINO					
2. Are any control measures in need of maintenance or repair?	YES	□ NO					
Have any control measures failed and require replacement? Are any additional/revised BMPs necessary in this area?	☐ YES	□ NO					
If YES to any of these three questions, provide a description of the			e attac	hed			
Corrective Action Form)	.o problem.	v,					

Stormwater MSGP for Industrial Activities Program

No. ENV-CP-QAPP-MSGP, R5

Page 33 of 40

Effective Date: 11/04/2013

	NPDE	S Permit	Trackin	ng No.:
	Ш			
D. CORRECTIVE ACTIONS				
Complete this page for each specific condition requiring a corrective action or a review determining that no corrective at page for additional corrective actions or reviews.	tion is ne	eded. C	Copy th	is
Include both corrective actions that have been initiated or completed since the last annual report, and future corrective actions ned identified in this comprehensive stormwater inspection. Include an update on any outstanding corrective actions that had not been previous annual report.	ded to ad complete	dress pro	oblems time of	your
1. Corrective Action # of for this reporting period.				
2. Is this corrective action:				
☐ An update on a corrective action from a previous annual report; or				
☐ A new corrective action?				
3. Identify the condition(s) triggering the need for this review:				
☐ Unauthorized release or discharge				
☐ Numeric effluent limitation exceedance				
☐ Control measures inadequate to meet applicable water quality standards				
☐ 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):				
4. Briefly describe the nature of the problem identified:				
5. Date problem identified:				
6. How problem was identified:				
☐ Comprehensive site inspection				
☐ Quarterly visual assessment				
☐ Routine facility inspection				
☐ Benchmark monitoring				
□ Notification by EPA or State or local authorities				
Other (describe):				
7. Description of corrective action(s) taken or to be taken to eliminate or further investigate the problem (e.g., describe modification measures, analyses to be conducted, etc.) or if no modifications are needed, basis for that determination:	s or repair	s to cont	rol	
8. Did/will this corrective action require modification of your SWPPP?				
9. Date corrective action initiated:				
10. Date correction action completed: / / / or expected to be completed: / / / / / / / / / / / / / / / / / / /	Ш			
11. If corrective action not yet completed, provide the status of corrective action at the time of the comprehensive site inspection an (including timeframes associated with each step) necessary to complete corrective action:	d describe	any rem	naining	steps

N I	IPDES Permit Tracking No.:
E. ANNUAL REPORT CERTIFICATION	
1. Compliance Certification	
Do you certify that your annual inspection has met the requirements of Part 4.2 of the permit, and that, based upon the results of the your knowledge, you are in compliance with the permit? YES NO	nis inspection, to the best of
If NO, summarize why you are not in compliance with the permit:	
2. Annual Report Certification	
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance wassure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persustem, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge	sons who manage the and belief, true, accurate,
and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and impriviolations.	isonment for knowing
Authorized Representative	
Printed Name:	
Signature: Date Signed:	

No. ENV-CP-QAPP-MSGP, R5

Effective Date: 11/04/2013

Page 34 of 40

Stormwater MSGP for Industrial Activities Program

Stormwater MSGP for Industrial Activities Program	No. ENV-CP-QAPP-MSGP, R5	Page 35 of 40
	Effective Date: 11/04/2013	

ATTACHMENT 3 – ROUTINE INSPECTION FORM

Name of Facility:	Responsible FOD (Name & Organization):		
Qualified Inspector(s):	Inspection type: □ Quarterly □ Other Date of inspection (MM/DD/YYYY):		
Others Present:			
	Time of inspection:		
Weather: ☐ Clear ☐ Cloudy ☐ Rain ☐ Sleet ☐ Fog ☐ S	Chair. D. High Winds. D. Other.		
Weather: □ Clear □ Cloudy □ Rain □ Sleet □ Fog □ S Temperature: ° F	Snow □ High Winds □ Other: Is Inspection Being Conducted During a Storm Water Discharge? □Yes □No		
	, Need to		
Structural Control Massures Effectively Main	tain (M), Corrective Action Needed and Notes (identify needed maintenance and repairs, or any		
	failed control measures that need replacement)		
	ace (RP)?		
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12			
Were additional BMPs or Control Measures implemented? $\ \square$ Yes $\ \square$	No Describe:		
Management of the definition of the second o	elected stems are (O. Ver. No. If No. describe are en		
Were previously identified conditions corrected before the next antic	cipated storm event? Yes No If No, describe reason:		
Area/Activity Impressed Controls			
(Aross of Industrial Metarials or Inspected Adagusto2 Corre	ective Action Needed and Notes (List area letter with comments below)		
Activities Exposed to Storm Water)	Serve Action received and rotes (List area retter with comments below)		
A. Material loading/unloading &			
storage areas			
B. Equipment operations &			
maintenance areas			
C. Fueling Areas			
D. Outdoor vehicle & equipment			
washing areas			
E. Waste Handling & disposal			
areas			
F. Erodible areas / construction			
G. Non-storm water / illicit			
connections			

Stormwater MSGP for Industrial Activities Program	No. ENV-CP-QAPP-MSGP, R5	Page 36 of 40
	Effective Date: 11/04/2013	

Н.	Salt storage piles or pile			
I.	containing salt Dust generation & vehicle tracking			
Are	the SWPP Plan maintenance, s	schedules and procedures	s being implemented at the facility? Yes No	
We	re any Corrective Actions initia	ted or completed? Yes	□ No Describe:	
	Are there any conditions requiring Corrective Action? Yes No If Yes, List Number of Corrective Actions Required (Note – You need enter a Corrective Action in the MSGP Corrective Action Report database for each listed)			

Stormwater MSGP for Industrial Activities Program	No. ENV-CP-QAPP-MSGP, R5	Page 37 of 40
	Effective Date: 11/04/2013	

ATTACHMENT 4 -- MSGP FACILITIES AND STORM WATER MONITORED OUTFALLS ASSOCIATED WITH INDUSTRIAL ACTIVITY 2011, PERMIT NMR05GB21

Location	Permitted Facility	Operation	Activity	Sector	Monitored Outfall	• Canyon
TA-15-185	TA-15-185 PHERMEX	Vehicle Maintenance Shop	Vehicle Maintenance	Р	15-PHRMX- 1	• Water
TA-3-0034	TA-3-0034 Metal Shop	Fabricated Metals	Fabricated Metals	AA	3-MST-1	 Mortandad
TA-3-22	TA-3-22 Power & Steam Plant	Power Plant	Steam Electric Power	0	3-PSP-1 3-PSP-5 3-PSP-8	Sandia
TA-3-38	TA-3-38 Metals Fab Shop	Metal Shop	Fabricated Metals	AA	3-MFS-1	• Sandia
TA-3-39	TA-3-39 & 102 Metal Shop	Metal Shop	Fabricated Metals	AA	3-TS-1	 Pajarito
TA-3-66	TA-3-66 Sigma Complex	Sigma Foundry	Primary Metals	F	3-Sigma-6	• Sandia
TA-54	TA-54 Area G	Area G - South Side	TSD	K	54-G-1	 Pajarito
TA-54	TA-54 Area G	Area G -North Side	TSD	К	54-G-2	 Canada del Buey
TA-54	TA-54 Area G	Area G - South Side	TSD	K	54-G-3	 Pajarito
TA-54	TA-54 Area G	Area G - South Side	TSD	K	54-G-4	 Pajarito
TA-54	TA-54 Area L	Area L	TSD	К	54-L-1	Canada del Buey
TA-54-38	TA-54 RANT	RANT	TSD	К	54-RANT-1	 Canada del Buey
TA-60	TA-60 Asphalt Batch Plant	Asphalt Batch Plant	Asphalt Paving	D	60-ABP-1	 Mortandad
TA-60	TA-60 MRF	Materials Recycling Facility	Scrap Recycling	N	60-MRF-1	• Sandia
TA-60-250	TA-60 Roads and Grounds	Roads & Grounds Facility	Vehicle Maintenance & Storage	Р	60-RG-1	Mortandad
				Р	60-RG-3	 Sandia
				Р	60-RG-8	 Sandia
TA-60-1	TA-60-1 Heavy Equipment Yard	Motor pool	Vehicle Maintenance	Р	60-HEY-2	• Sandia
TA-60-2	TA-60-2 Warehouse	Motor pool	Vehicle Maintenance	Р	60-WH-1	• Sandia
TA-9-28	TA-9-28 Heavy Equipment Maintenance	Motor pool	Vehicle Maintenance	Р	9-HEM-1	• Pajarito

Stormwater MSGP for Industrial Activities Program	No. ENV-CP-QAPP-MSGP, R5	Page 38 of 40
	Effective Date: 11/04/2013	

ATTACHMENT 5 – POLLUTANTS UNDER IMPAIRED WATERS MONITORING

Permitted Facility	Monitored Outfall	Assessment Unit	Canyon	Pollutant
TA-54 Area G	54-G-2	NM-128.A_00	Canada del Buey (within LANL)	PCBs
TA-54 Area L	54-L-1			Aluminum
TA-54-RANT	54-RANT-1			Gross Alpha
TA-54 Area G	54-G-1	NM-128.A_08	Pajarito Canyon (within LANL	PCBs
TA-54 Area G	54-G-3		below Arroyo de la Delfe)	Aluminum
TA-54 Area G	54-G-4			Copper
				Gross Alpha
TA-15-185 PHERMEX	15-PHRMX-1	NM-128.A_13	Water Canyon (within LANL	PCBs
		_	below Area-A Canyon)	Aluminum
				Gross Alpha
TA-3-39 & 102 Metal Shop	3-TS-1	NM-128.A_15	Two Mile Canyon (Pajarito to	PCBs
			headwaters)	Aluminum
				Gross Alpha
TA-9-28 Heavy Equipment	9-HEM-1	NM-128.A_16	Arroyo de la Delfe (Pajarito	Aluminum
Maintenance			Canyon to headwaters)	Mercury
				Gross Alpha
TA-60 Asphalt Batch Plant	60-ABP-1	NM-9000.A_042	Mortandad Canyon (within	Aluminum
TA-3-0034 Metal Shop	3-MST-1		LANL)	Copper
TA-60 Roads and Grounds	60-RG-1			Сорреі
				Gross Alpha
		NM-9000.A_047	Sandia Canyon (Sigma Canyon	PCBs
TA-3-38 Metals Fab Shop	3-MFS-1		to NPDES outfall 001)	Aluminum
TA-3-22 Power & Steam Plant	3-PSP-1			Copper
TA-3-22 Power & Steam Plant	3-PSP-5			Gross Alpha
TA-3-22 Power & Steam Plant	3-PSP-8			Mercury
TA-3-66 Sigma Complex	3-Sigma-6			
TA-60-1 Heavy Equipment Yard	60-HEY-2			
TA-60 MRF	60-MRF-1			
TA-60 Roads and Grounds	60-RG-3			
TA-60 Roads and Grounds	60-RG-8			
TA-60-2 Warehouse	60-WH-1			

Stormwater MSGP for Industrial Activities Program	No. ENV-CP-QAPP-MSGP, R5	Page 39 of 40
	Effective Date: 11/04/2013	

ATTACHMENT 6 – ANALYTES BY INDUSTRIAL SECTOR

Permitted Facility	Monitored Outfall	Sector	Activity	Analyte	Monitoring Requirement
TA-3-0034 Metal Shop	3-MST-1	AA	Fabricated Metals	Aluminum	Quarterly Benchmark Monitoring (QBM)
TA-3-38 Metals Fab Shop	3-MFS-1			Iron	QBM
TA-3-39 & 102 Metal Shop	3-TS-1			Nitrate plus Nitrite Nitrogen	QBM
				Zinc	QBM
TA-60 Asphalt Batch Plant	60-ABP-1	D	Asphalt Paving	Oil and Grease	Effluent Limitations Guidelines (ELG)
				рH	ELG
				Total Suspended Solids	QBM and ELG
TA-3-66 Sigma Complex	3-Sigma-6	F	Primary Metals	Copper	QBM
				Zinc	QBM
TA-54 Area G	54-G-1	К	Treatment, Storage or Disposal Facility (TSD)	Ammonia	QBM
TA-54 Area G	54-G-2			Arsenic	QBM
TA-54 Area G	54-G-3			Cadmium	QBM
TA-54 Area G	54-G-4			Chemical Oxygen Demand	QBM
TA-54 Area L	54-L-1			Cyanide	QBM
TA-54 RANT	54-RANT-1			Lead	QBM
				Magnesium	QBM
				Mercury	QBM
				Selenium	QBM
				Silver	QBM
TA-60 MRF	60-MRF-1	N	Scrap Recycling	Aluminum	QBM
				Chemical Oxygen Demand	QBM
				Copper	QBM
				Iron	QBM
				Lead	QBM
				Total Suspended Solids	QBM
				Zinc	QBM
TA-3-22 Power & Steam Plant	3-PSP-1	0	Steam Electric Power	Iron	QBM
	3-PSP-5				
	3-PSP-8				

Stormwater MSGP for Industrial Activities Program	No. ENV-CP-QAPP-MSGP, R5	Page 40 of 40
	Effective Date: 11/04/2013	

ATTACHMENT 7 – REFERENCES AND GUIDANCE DOCUMENTS

- 40 CFR 122, EPA Administered Permit Programs
- 40 CFR 136, Guidelines Establishing Test Procedures for the Analysis of Pollutants.
- Clean Water Act, Title 33 U.S.C. 1251
- DOE O 414.1C, Quality Assurance
- DOE Order 450.1, Environmental Protection Program
- DOE Order 5400.5, Radiation Protection of Public and Environment
- EPA QA/G-4, Guidance for the Data Quality Objectives Process

LANL Documents:

- P322-4, Laboratory Performance, Feedback, and Improvement
- P328-3, Management Assessments
- P328-4, Management Observation and Verification
- P330-6, Nonconformance Reporting
- P330-8, Inspection and Test for Acceptance
- P340, Conduct of Engineering
- P341, Engineering Process Manual
- P401, Procedure to Identify, Communicate, and Implement Environmental Requirements
- P407, Water Quality
- P840-1, Procurement Quality

ENV Documents:

- ENV-DO-QP-105, Preparation, Review, and Approval of Procedures
- ENV-DO-QP-106, Document Control
- ENV-DO-QP-113, Tracking Performance Feedback and Actions
- ENV-DO-QP-115, Personnel Training
- ENV-CP-QP-022, MSGP Storm Water Corrective Actions
- ENV-CP-QP-044, Preparing Storm Water Discharge Monitoring Reports (MDNRs) for NPDES MSGP
- ENV-CP-QP-047, Inspecting Storm Water Runoff Samplers and Retrieving Samples
- ENV-CP-QP-048, Processing MSGP Storm Water Samples
- ENV-CP-QP-064, Multi-Sector General Permit Storm Water Visual Inspections
- ENV-WQH-QP-029, Creating and Maintaining a Chain of Custody
- Surface Water Monitoring Plan, October 2001, Rev. 0.0

MSGP Stormwater Pollution Prevention Plan Revision 1, January 2020

ATTACHMENT 16: EPC-CP-QP-023, MSGP ROUTINE FACILITY INSPECTIONS

EPC-CP-QP-023	Revision: 1	Los Alamos
Effective Date: 03/07/2019	Next Review Date: 03/07/2022	NATIONAL LABORATORY ————————————————————————————————————

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

Environmental Protection and Compliance Division – Compliance Programs

Quality Procedure

MSGP Routine Facility Inspections

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MSGP Routine Facility	EPC-CP-QP-023	Page 2 of 21
Inspections	Revision: 1	Effective Date: 03/07/2019

REVISION HISTORY

Document Number and Revision [Include revision number, beginning with Revision 0]	Effective Date [Document Control Coordinator inserts effective date]	Description of Changes [List specific changes made since the previous revision]
EPC-CP-QP-023 R0	05/17/2018	New Document. Process formerly part of procedure ENV-RCRA-QP-022 R2, MSGP Corrective Actions.
EPC-CP-QP-023 R1	03/07/2019	Added question to inspection form, associated text to document, and renumbered steps. Removed reference to Los Alamos National Security, LLC. Added reference to LANL BMP Manual. Minor edits made.

MSGP Routine Facility Inspections

 EPC-CP-QP-023
 Page 3 of 21

 Revision: 1
 Effective Date: 03/07/2019

Table of Contents

Quali	ty Pro	cedure	1
Revis	ion His	tory	2
Table	of Co	ntents	3
1.0	Intro	duction	4
	1.1	Purpose	4
	1.2	Scope	4
	1.3	Applicability	4
2.0	Role	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	Preca	outions and Limitations	6
4.0	Prere	quisite Actions	7
	4.1	Planning and Coordination	7
	4.2	Tools and Equipment	7
5.0	MSG	P Routine Facility Inspections	7
	5.1	Conducting the Inspection	9
	5.2	Completing the Inspection Form in MC Express	11
	5.3	Completing the Inspection Form on Hardcopy	12
	5.4	Completing the Certification Statement	13
6.0	Train	ing	13
7.0	Reco	rds	14
8.0	Defir	itions and Acronyms	14
	8.1	Definitions	14
	8.2	Acronyms	14
9.0	Refe	rences	15
10.0	Atta	hments	15
	Atta	chment 1: Screenshot ExampleS of EPC-CP-Form-1020, MSGP Routine Facility Inspection in MC Express .	16
	Atta	chment 1: Screenshot ExampleS of EPC-CP-Form-1020, MSGP Routine Facility Inspection in MC Express	
		(cont.)	17
	Atta	hment 2: EPC-CP-Form-1020, MSGP Routine Facility Inspection Hard Copy Example	19

MSGP Routine Facility	EPC-CP-QP-023	Page 4 of 21
Inspections	Revision: 1	Effective Date: 03/07/2019

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

Parts 3.1 and 3.1.2 of the MSGP contain specific requirements for conducting and documenting periodic industrial routine facility inspections. This procedure governs the activities of LANL 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 LANL 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 subcontractor personnel (as applicable) 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 the MSGP are provided below.

MSGP Routine Facility	EPC-CP-QP-023	Page 5 of 21
Inspections	Revision: 1	Effective Date: 03/07/2019

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 Form to add new Best Management Practices (BMPs) or decommission retired ones;
- Training personnel to use MC Express;
- Performing a quality review of routine facility inspections and "no exposure" site inspections submitted in Maintenance Connection (MC); and
- Assisting customers with issues associated with MC Express.

2.2 Deployed Environmental Professionals

DEPs are responsible for the following:

- Implementing this procedure;
- Being educated (i.e., 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-QAPP-MSGP, Stormwater Multi-Sector General Permit for Industrial Activities Program;
- Being trained on EPC-CP-QP-022, Multi-Sector General Permit (MSGP) Corrective Actions;
- Being trained on 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	EPC-CP-QP-023	Page 6 of 21
Inspections	Revision: 1	Effective Date: 03/07/2019

- Performing routine facility inspections, either monthly or quarterly throughout the year at regulated sites within their FOD (depending on inspection frequency identified in sitespecific 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 ensures 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, MSGP Routine Facility Inspections, or "no exposure" site inspections conducted by EPC-CP personnel. The Group Leader notifies upper management of instances of non-compliance with the permit or other identified environmental risk.

2.5 DESH Manager

The DESH manager works with programmatic entities and the FOD to identify adequate resources for their industrial facilities to ensure permit requirements can be implemented. The DESH Manager is responsible for the performance of DEPs under their management and to ensure DEPs are trained and qualified. They also provide oversight by ensuring that industrial facilities complying with the MSGP and will notify upper management of instances of non-compliance with the permit or other identified environmental risk.

3.0 PRECAUTIONS AND LIMITATIONS

The hazard rating for the activities described in this procedure is **LOW** and therefore, does not require an IWD.

MSGP Routine Facility	EPC-CP-QP-023	Page 7 of 21
Inspections	Revision: 1	Effective Date: 03/07/2019

Field inspections 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).

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.
- 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. Obtain any necessary additional paperwork before conducting this work, including SWPPPs and maps (as necessary).

4.2 Tools and Equipment

Ensure the following equipment is available.

- Sturdy hiking boots or steel toed shoes with soles that grip and other facility specific PPE as needed.
- 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-Form-1020, 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.

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. The inspections are performed on the following facility areas:

• Areas where industrial materials or activities are exposed to stormwater;

MSGP Routine Facility	EPC-CP-QP-023	Page 8 of 21
Inspections	Revision: 1	Effective Date: 03/07/2019

- 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 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.

MSGP Routine Facility	EPC-CP-QP-023	Page 9 of 21
Inspections	Revision: 1	Effective Date: 03/07/2019

5.1 Conducting the Inspection

See Attachment 1 for screen shot examples of EPC-CP-Form-1020, MSGP Routine Facility Inspection in MC Express. See Attachment 2 for an example of the inspection form in hard copy format.

Some terminology varies between the MC Express software and the MC desktop software. 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.

If the inspector needs space, additional comments can be entered in the "Labor Report" field (see Section 5.2) when the work order is updated to "Complete" status in MC Express. If completing a hard copy enter additional comments in the "Labor Report" field at the bottom of the form.

- 1. Use the Internet Explorer web browser on a tablet or similar portable computer and navigate to http://express.maintenanceconnection.com. Log into the MC Express application using your login credentials.
- 2. Open the inspection form for the location to be inspected and select "Tasks" to navigate to the Tasks page.
 - **NOTE 1:** Each item number listed in red font below corresponds to a numbered box on both screen shots (Attachment 1) and hard copy format (Attachment 2).
- 3. **Item 1**: Observe the weather at time of inspection. Document the weather and temperature in the "Comments" field. Document this task is or is not completed by clicking the expand arrow located on the right side of the task line and changing the "Complete" or "Failed" line to "Yes".

CAUTION

Click the "Save" bar after entries for a task line have been completed and before proceeding to the next question. Failure to "Save" results in lost data entries.

- 4. Item 2: Observe and document the facility is free of **new** discharges of pollutants **since the last inspection** by clicking the expand arrow located on the right side of the task line and changing the "Complete" or "Failed" line to "Yes". Describe any new discharges and the specific location in the "Comments" field of the task line.
- 5. Item 3:

IF the response to Item 2 is "Complete"

<u>THEN</u> click the expand arrow located on the right side of this task line and change the "N/A" line to "Yes".

OR

IF the response to Item 2 is "Failed",

<u>THEN</u> document any corrective action previously initiated for the discharge by clicking the expand arrow located on the right side of the task line and changing the "Complete" or "Failed" line to "Yes".

MSGP Routine Facility	EPC-CP-QP-023	Page 10 of 21
Inspections	Revision: 1	Effective Date: 03/07/2019

- 6. Item 4: Observe and document the facility is free of discharges of pollutants at the time of inspection by clicking the expand arrow located on the right side of the task line and changing the "Complete" or "Failed" line to "Yes". Describe any pollutant discharge and the specific location in the "Comments" field of the task line.
- 7. Item 5: Observe and document the facility is free of evidence of pollutants entering the drainage system OR the potential for pollutants entering the drainage system by clicking the expand arrow located on the right side of the task line and changing the "Complete" or "Failed" line to "Yes". Describe any discharge or potential discharge and the specific location in the "Comments" field of the task line.
- 8. **Item 6**: Observe and document the outfall does not have any **new** evidence of erosion **since the last inspection** by clicking the expand arrow located on the right side of the task line and changing the "Complete" or "Failed" line to "Yes". Describe any erosion observed in the "Comments" field of the task line.
- 9. Item 7: Observe and document all flow dissipation devices are operating effectively and are not in need of repair by clicking the expand arrow located on the right side of the task line and changing the "Complete" or "Failed" line to "Yes". Describe any non-functional status of devices in the "Comments" field of the task line.
- 10. Item 8: Observe and document the outfall is free of evidence of pollutants in the discharge and/or the receiving water by clicking the expand arrow located on the right side of the task line and changing the "Complete" or "Failed" line to "Yes". Describe any pollutants observed in the "Comments" field of the task line.
- 11. Item 9: Observe and document the outfall is free of unauthorized non-stormwater discharges by clicking the expand arrow located on the right side of the task line and changing the "Complete" or "Failed" line to "Yes". Describe any unauthorized discharges observed in the "Comments" field of the task line.
- 12. If the location has more than one outfall, complete Steps 8 through 11 for each outfall shown on the work order.
- 13. Item 10: Observe and document each control measure is operating effectively by clicking the expand arrow located on the right side of the task line and changing the "Complete" or "Failed" line to "Yes". 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.
 - **NOTE 2**: 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 <u>LANL Stormwater BMP Manual</u>.
- 14. <u>IF</u> the location has more than one control measure, <u>THEN</u> complete Step 13 for each control measure shown on the work order.

MSGP Routine Facility	EPC-CP-QP-023	Page 11 of 21
Inspections	Revision: 1	Effective Date: 03/07/2019

- 15. Item 11: Observe and document each sector of NPDES specified industrial area/activity (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) is inspected for exposure to stormwater. Document by clicking the expand arrow located on the right side of the task line and changing the "Complete" or "Failed" line to "Yes".
 - Determine if the control measures associated with each industrial area/activity are appropriate for the activity, effectively controlling stormwater exposure, and operating. 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.
- 16. **IF** the facility has more than one sector of NPDES specified industrial area/activity, **THEN** complete Step 15 for each industrial area/activity shown on the work order.
 - For industrial activities that do not apply to the facility, click the expand arrow located on the right side of the task line and change the "N/A" line to "Yes".
- 17. Item 12: Observe and document the facility is free of discharges of any non-compliance not documented elsewhere on the inspection form by clicking the expand arrow located on the right side of the task line and changing the "Complete" or "Failed" line to "Yes". Describe any additional incidences of non-compliance in the "Comments" field of the task line.
- 18. Item 13: Observe and document the facility meets the MSGP requirements with existing control measures by clicking the expand arrow located on the right side of the task line and change the "Complete" to "Yes". If additional control measures are needed to comply with the Permit, click the expand arrow located on the right side of the task line and change the "Failed" to "Yes" and describe the control measures in the "Comments" field of the task line.
- 19. When all task lines have been completed, make sure you have clicked the "Save" bar at the bottom of the page.
- 20. 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.

Always log out of MC Express when you have finished work OR if work is interrupted.

5.2 Completing the Inspection Form in MC Express

See Attachment 1 for screen shot examples of EPC-CP-Form-1020, MSGP Routine Facility Inspection in MC Express.

1. Click the checkered flag in the upper right corner of the work order Summary page.

CAUTION

MC Express automatically changes the work order status to "Closed" and auto-populates the date and time fields.

MSGP Routine Facility	EPC-CP-QP-023 Page 12 of 21		
Inspections	Revision: 1	Effective Date: 03/07/2019	

 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. Ensure the date and time autopopulated are the date and time the on-site field inspection was completed (not the date/time the form was filled out).

IF these fields need to be updated,

THEN

- [a] Click the "Date" field to open the pop-up window.
- [b] Make necessary adjustments using the timestamp application.
- [c] Click "Set" to apply changes.
- 3. Item 15: The inspector types in his/her name in the "Labor Report Update" field.

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" section.

- 4. 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.
- 5. **Item 16**: Capture an electronic signature by drawing with a finger on the tablet screen. The field inspector is certifying that the information submitted is "true, accurate, and complete" by electronically signing the work order.

NOTE: If using MC Express on a desktop screen (not a tablet), the mouse is used to draw a signature.

- 6. Click on the "Save" bar at the bottom of the page to close the "Signature" field.
- 7. Click on the "Back" button located in the upper left hand corner to return to the "My Open Work Orders" page.
- 8. Once you have completed an inspection, click on the Menu button again, and then click the "Logout" bar. Close the browser. All work will be automatically uploaded from the MC Express application to the MC database.

Always log out of MC Express when you have finished work OR if work is interrupted.

5.3 Completing the Inspection Form on Hardcopy

See Attachment 2 for an example of EPC-CP-Form-1020, MSGP Routine Facility Inspection in hard copy format.

1. Item 14: Write in the date and time the inspection was completed and *not* the date/time the form was filled out.

<u>IF</u> an inspection needs to be performed over multiple days, THEN note the date and time the inspection began in the Labor Report field.

- 2. Item 15: The field inspector prints his/her name.
- 3. The field inspector reviews the inspection form for accuracy.

MSGP Routine Facility	EPC-CP-QP-023 Page 13 of 21		
Inspections	Revision: 1	Effective Date: 03/07/2019	

IF a correction or update is needed,

THEN the inspector will draw a single line through the information to be updated, write in the new information, and add his/her initials and the date the information was updated.

4. Item 16: The field inspector certifies that the information submitted is "true, accurate, and complete" by signing his/her name and dating when the form was signed.

5.4 Completing the Certification Statement

Follow Steps 1 through 5 in this section if the inspection form was completed electronically (see Attachment 1). If the inspection form was completed on a hard copy form, skip to Step 6.

- Using the Internet Explorer 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 and enter the work order number in the "Search Value" field. 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" subtab.
- 5. Click the Tools drop down menu in the top right corner of the page and select "Print" from the options. The print dialog box will open. 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 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). The manager is certifying the information submitted is "true, accurate, and complete" by signing the form.

The certification statement will be signed no more than 14 days after completion of the inspection.

7. Attach the completed, signed, and certified inspection form to the facility SWPPP.

6.0 TRAINING

The following personnel require training before implementing this procedure.

- DESH Group and Team Leaders
- EPC-CP MSGP stormwater compliance personnel
- DEPs

MSGP Routine Facility	EPC-CP-QP-023	Page 14 of 21
Inspections	Revision: 1	Effective Date: 03/07/2019

• Other LANL or subcontract personnel identified as being required to conduct stormwater assessments as part of their job duties

For EPC-CP staff, the training method for this procedure is "self-study" (required reading). Other participating groups may require training documentation pursuant to local procedures.

Personnel performing this procedure will be familiar with the most current versions of the following procedures.

- EPC-CP QAPP-MSGP Quality Assurance Project Plan for the Stormwater Multi-Sector General Permit for Industrial Activities
- EPC-CP-QP-022, MSGP Corrective Actions
- MSGP Routine Inspections OJT

7.0 RECORDS

MSGP Routine Facility Inspection forms are signed and certified by individual facilities. These completed forms are maintained in the facility's SWPPP and managed by the facility's document management system. The MSGP team may obtain a copy for reference purposes.

8.0 DEFINITIONS AND ACRONYMS

See LANL <u>Definition of Terms</u>.

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.

8.2 Acronyms

See LANL <u>Acronym Master List</u>.

ВМР	Best Management Practice
EPC-CP	Environmental Protection and Compliance – Compliance Programs
DEP	Deployed Environmental Professional
DESH	Deployed Environment, Safety, and Health
IWD	Integrated Work Document
FOD	Facility Operations Director
LANL	Los Alamos National Laboratory
MC	Maintenance Connection

MSGP Routine Facility	EPC-CP-QP-023 Page 15 of 21		
Inspections	Revision: 1	Effective Date: 03/07/2019	

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-Form-1020, MSGP Routine Facility Inspection in MC Express

Attachment 2: EPC-CP-Form-1020, MSGP Routine Facility Inspection Hard Copy Example

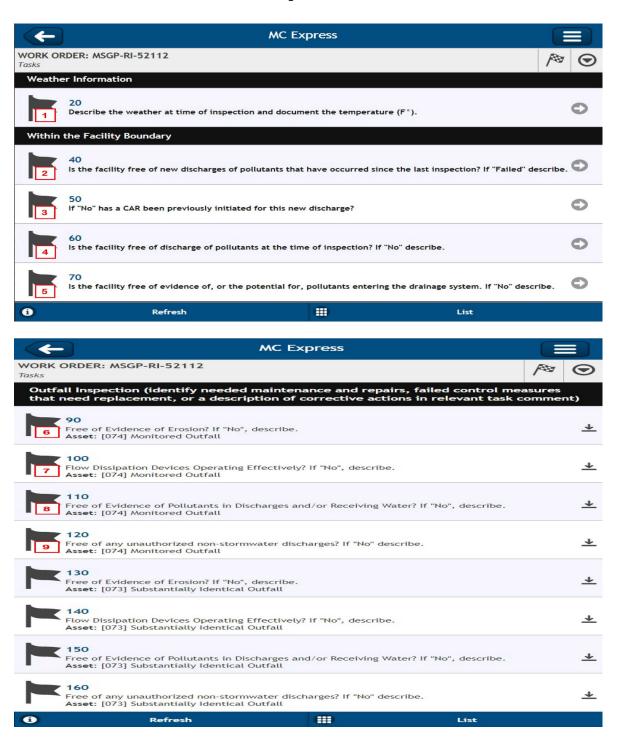
MSGP	Routine	Facility
Inspec	tions	•

 EPC-CP-QP-023
 Page 16 of 21

 Revision: 1
 Effective Date: 03/07/2019

Attachment 1: Screenshot ExampleS of EPC-CP-Form-1020, MSGP Routine Facility Inspection in MC Express

Page 1 of 3



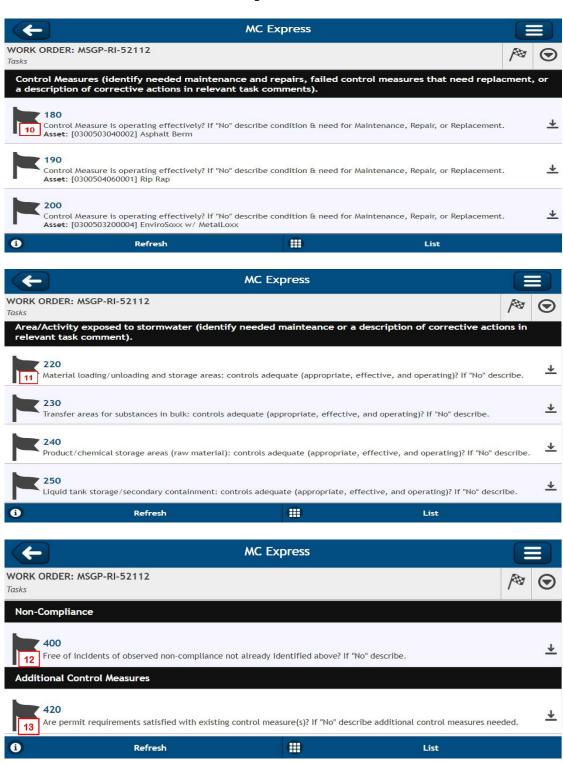
MSGP Routine	Facility
Inspections	_

 EPC-CP-QP-023
 Page 17 of 21

 Revision: 1
 Effective Date: 03/07/2019

Attachment 1: Screenshot ExampleS of EPC-CP-Form-1020, MSGP Routine Facility Inspection in MC Express (cont.)

Page 2 of 3

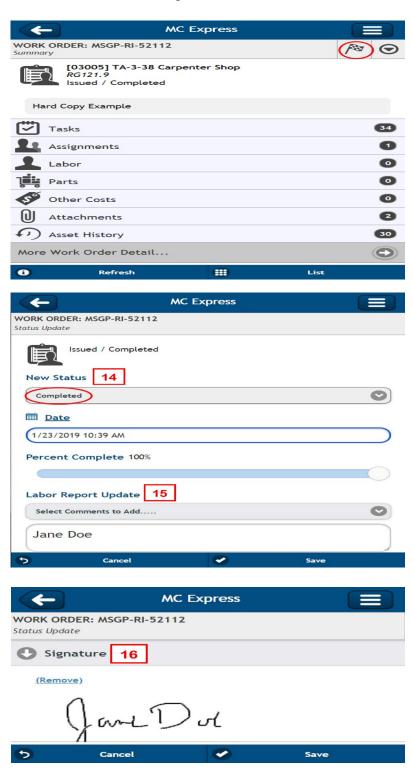


MSGP Routine	Facility
Inspections	_

EPC-CP-QP-023	Page 18 of 21
Revision: 1	Effective Date: 03/07/2019

Attachment 1: Screenshot ExampleS of EPC-CP-Form-1020, MSGP Routine Facility Inspection in MC Express (cont.)

Page 3 of 3



MSGP Routine Facility Inspections

 EPC-CP-QP-023
 Page 19 of 21

 Revision: 1
 Effective Date: 03/07/2019

Attachment 2: EPC-CP-Form-1020, MSGP Routine Facility Inspection Hard Copy Example Page 1 of 3

Los Alamos National Laboratory			1.010.0	Work Order MSGP-RI-52112 MSGP Routine Inspection Printed 1/23/2019 - 12:45 PM (Duplicate Copy)						
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	Within		ility Boundary							
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3	50	If "No	o" has a CAR been previou:	sly initiated for th	nis new discharge?					
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5	70		facility free of evidence of, on n. If "No" describe.	or the potential fo	or, pollutants entering the dra	ainage		П		
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6	90		ored Outfall [074] Free of E		The second secon					
7	100	Monito describ		sipation Devices	Operating Effectively? If "N	o",		П	П	П
1	3 440			Evidence of Pollu	utants in Discharges and/or l	Receiving			_	
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9	120	describ		arry directinonized	Thom stormwater disoriarges					
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	230		er areas for substances in b	oulk: controls ade	equate (appropriate, effective	e, and				

MSGP Routine Facility	EPC-CP-QP-023	Page 20 of 21
Inspections	Revision: 1	Effective Date: 03/07/2019

Attachment 2: EPC-CP-Form-1020, *MSGP Routine Facility Inspection* Hard Copy EXAMPLE (cont.) Page 2 of 3

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.	
260	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	
270	Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	
280	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	
290	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	
300	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.	
310	Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	
320	Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.	
330	Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.	
340	Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.	
350	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.	
360	Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe.	
370	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe.	
380	Sector A [03005-] Wood processing, transport or treated wood storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	
Non-C	ompliance	
400	Free of incidents of observed non-compliance not already identified above? If "No" describe.	
A dditi	onal Control Measures	
Additio	Are permit requirements satisfied with existing control measure(s)? If "No" describe	
420	additional control measures needed.	
abari	Ponert	
.apor	Report	
Compl	eted: 1/23/2019 10:39:00 AM	
Report	t: [Additional notes, observations, or site conditions not documented in Task Line Comments field]	
	Jane Doe	
	(and Dol 1/23/2019	
	/Signature / Name Date Signature / Name	Date
confir	m the information as recorded is true, accurate and complete.	

EPC-CP-Form-1020.2 01/2019

MSGP Routine Facility	EPC-CP-QP-023	Page 21 of 21
Inspections	Revision: 1	Effective Date: 03/07/2019

Attachment 2: EPC-CP-Form-1020, MSGP Routine Facility Inspection Hard Copy EXAMPLE (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:

EPC-CP-Form-1020.2 01/2019

MSGP Stormwater Pollution Prevention Plan Revision 1, January 2020

EPC-CP-QP-022, MSGP CORRECTIVE ACTIONS ATTACHMENT 17:

EPC-CP-QP-022	Revision: 3
Effective Date: 12/20/2018	Next Review Date: 12/20/21



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

Environmental Protection and Compliance Division – Compliance Programs

Quality Procedure

MSGP Corrective Actions

Document Owner/Subject Matter Expert:

Name:	Organization:	Signature:	Date:	
Holly Wheeler	EPC-CP	Signature on File	12-19-18	
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Name:	Derivative Classifie	r: Unclassified Signature:	Date:	

Approval Signatures:

Subject Matter Expert:	Organization:	Signature:	Date:
Holly Wheeler	EPC-CP	Signature on File	12-19-18
Responsible Line Manager:	Organization:	Signature:	Date:
Terrill Lemke	EPC-CP Team Leader	Signature on File	12-20-18
Responsible Line Manager	Organization	Signature:	Date:
Taunia Van Valkenburg	EPC-CP Group Leader	Signature on File	12-20-18

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MSGP Corrective Actions	EPC-CP-QP-022	Page 2 of 31
	Revision: 3	Effective Date: 12/20/2018

Revision History

Document Number and Revision [Include revision number, beginning with Revision 0]	Effective Date [Document Control Coordinator inserts effective date]	Description of Changes [List specific changes made since the previous revision]
0	08/10	New Document.
1	11/10	Incorporated EPC-CP-QP-062 MSGP Routine Inspections into this document.
2	01/13	Biennial revision, new template implemented.
EPC-CP-QP-022 R3	12/202018	Revision to reflect new 2015 MSGP requirements. New procedure format was used and organizational changes made. This document replaces ENV-RCRA-QP-022, R2, which was split into EPC-CP-QP-023, R0, MSGP Industrial Stormwater Routine Facility Inspections, and EPC-CP-QP-022, R3, MSGP Corrective Actions.

MSGP Corrective Actions

EPC-CP-QP-022 Page 3 of 31

Revision: 3 Effective Date: 12/20/2018

Table of Contents

Revis	ion Hi	story	2
Table	of Co	ontents	3
1.0	Intro	duction	5
	1.1	Purpose	5
	1.2	Scope	5
	1.3	Applicability	5
2.0	Preca	autions and Limitations	5
3.0	Prere	equisite Actions	6
	3.1	Planning and Coordination	6
	3.2	Tools and Equipment	6
4.0	Roles	s and Responsibilities	6
	4.1.	EPC-CP MSGP Stormwater Personnel	6
	4.2	Deployed Environmental Professionals	7
	4.3	EPC-CP Storm Water Team Leader	8
	4.4	EPC-CP Group Leader	8
	4.5	DESH Manager	8
	4.6	Facilities Operations Director	9
5.0	Proce	ess Description	9
	5.1	Identifying Conditions Requiring Corrective Actions	9
	5.2	Corrective Action Deadlines and Documentation	10
		5.2.1 Immediate Action	10
		5.2.2 Subsequent Action	11
		5.2.3 Corrective Action Documentation	11
	5.3	Effect of Corrective Action	12
	5.4	Substantially Identical Outfalls	13
	5.5	Spills	13
	5.6	Allowable Non-Stormwater Discharges	13
	5.7	Entering a Condition Requiring Corrective Action	14
	5.8	Updating Corrective Actions	18
	5.9	Validation of Corrective Actions	18
	5.10	Issues Management	19
	5.11	Notifications for New and Overdue Corrective Actions	19
6.0	Train	ning	20
7.0	Reco	rds	20
8.0	Defir	nitions and Acronyms	21
	8.1	Definitions	21
	8.2	Acronyms	21
9.0	Refe	rences	
	Attac	chments	23
		chment 1 – Screenshot Example of CAR Database	
		chment 2 – Lists of Limited Values in the CAR Database	
	Atta	chment 3 – Example New Corrective Action Finding Notification	29

MSGP Corrective Actions	EPC-CP-QP-022	Page 4 of 31
WISGF Corrective Actions	Revision: 3	Effective Date: 12/20/2018

Attachment 4 – Example Weekly Notification of Outstanding Corrective Action Findings	30
Attachment 5 – Example Outstanding Corrective Action Report	31

MSGP Corrective Actions	EPC-CP-QP-022	Page 5 of 31
	Revision: 3	Effective Date: 12/20/2018

1.0 INTRODUCTION

The National Pollutant Discharge Elimination System (NPDES) Multi-Sector General Permit (MSGP) contains specific environmental requirements for identifying, implementing, documenting and reporting conditions requiring corrective actions. Laboratory personnel (the Deployed Environmental Professionals (DEPs) and Environmental Protection and Compliance Division — Compliance Programs (EPC-CP) Storm Water Team (also referred to as EPC-CP MSGP stormwater personnel) are required to perform routine facility inspections and document all conditions requiring corrective actions found on an inspection form (see EPC-CP-QP-023). Conditions requiring corrective actions can be identified during facility walk-downs, normal daily operations, and/or analytical data evaluations, and can be identified by facility personnel, the DEP or EPC-CP MSGP stormwater personnel.

1.1 Purpose

This procedure governs the activities of Laboratory personnel working at Los Alamos National Laboratory (LANL) involved in identifying, implementing, documenting and entering a condition requiring corrective action, including a permit limit exceedance, into the MSGP Corrective Action Report (CAR) Findings database or CAR database. Part 4.4 of the MSGP contains specific documentation requirements relative to corrective actions. This procedure satisfies these requirements.

1.2 Scope

Requirements set forth in this document apply to personnel responsible for meeting the permit conditions on behalf of LANL industrial sites covered by the MSGP. This permit requires periodic inspection of sites and identification, implementation, documentation, tracking and reporting of conditions requiring corrective actions.

1.3 Applicability

This procedure applies to the EPC-CP MSGP stormwater personnel and DEPs who conduct stormwater inspections and monitoring activities at permitted MSGP sites within LANL.

2.0 PRECAUTIONS AND LIMITATIONS

- 2.1 The hazard level for field activities and office work described in this procedure is a **LOW hazard** rating and does not require an Integrated Work Document (IWD).
- 2.2 Inspections or walk-downs may be discontinued during periods or conditions that make sites dangerous for worker safety or prevent personnel from safely accessing sites (e.g., weather-related events such as flash floods, flooding, lightning, wildfires, hail, icy roads, deep snow, or LANL operations such as firing shots or open burning).

MSGP Corrective Actions	EPC-CP-QP-022	Page 6 of 31
	Revision: 3	Effective Date: 12/20/2018

3.0 PREREQUISITE ACTIONS

3.1 Planning and Coordination

DEPs and EPC-CP MSGP stormwater personnel require a CAR database user account (https://msgp-car.lanl.gov/forms/frmservlet?config=msgp-car). Facility Operations Directors (FODs), Deployed Environment, Safety, and Health (DESH) Managers and Operations (Ops) Managers can request a read-access account by contacting the EPC-CP MSGP data administrator for access.

3.2 Tools and Equipment

Tools and equipment for documenting inspections and updating the CAR database include the following:

- LANS issued tablet or notebook style computer with Safari web browser and Blackberry
 UEM™app. (see https://int.lanl.gov/policy/documents/P217.pdf for requirements on using portable electronic devices on Laboratory property), and
- Access to the CAR database.

Tools and equipment for field work associated with performing inspections and site walk-downs are listed below.

- Sturdy hiking boots or steel or composite toed shoes with soles that grip (some sites require steel or composite toed shoes).
- Safety glasses if required by site.
- Cell phone (only government cell phones with batteries removed are allowed in secure areas.) See https://int.lanl.gov/policy/documents/P217.pdf for requirements on using portable electronic devices on Laboratory Property.)
- Copy of this procedure.
- Copy of facility specific Stormwater Pollution Prevention Plan (SWPPP) and map(s) (as needed).
- Necessary access.
- Stockpile of temporary stormwater controls (Best Management Practices [BMPs], e.g., inlet protection, absorbent pads for spills, gravel bags, S-Fence, wattles, etc.)

4.0 ROLES AND RESPONSIBILITIES

Specific roles and responsibilities for implementation of requirements contained in the MSGP are provided below.

4.1 EPC-CP MSGP Stormwater Personnel

EPC-CP MSGP stormwater personnel will be fully knowledgeable of the specific regulatory requirements identified in the MSGP. Additional responsibilities are listed below.

MSGP Corrective Actions	EPC-CP-QP-022	Page 7 of 31
WISGF COTTECTIVE ACTIONS	Revision: 3	Effective Date: 12/20/2018

- Implement this procedure;
- Oversee the corrective action process;
- Identify conditions requiring corrective action during internal routine facility inspections, "no exposure" assessments, and/or facility walk-downs performed by them, or during evaluation of monitoring data when permit limits are exceeded;
- Perform a quality review of conditions requiring corrective action submitted in the CAR database;
- Notify managers and/or legal counsel of non-compliances;
- Assist DEPs and other customers with issues associated with the CAR database;
- Prepare and submit 45-day exceedance notification to Region 6, Environmental Protection Agency (EPA) containing information provided by the DEP;
- Prepare and submit the Annual Report summarizing all conditions requiring corrective action for the year in EPA's electronic NPDES eReporting tool (NeT);
- Prepare management requested metrics relative to conditions requiring corrective action;
- Provide information to the Issues Management Coordinator (IMC) for entering water quality exceedances and other permit violations into the Issues Management (IM) tool; and
- Train personnel to use the CAR database.

4.2 Deployed Environmental Professionals

DEPs will be fully knowledgeable of the site-specific SWPPP for their assigned sites and corrective action requirements identified in the MSGP. In addition, they shall be appropriately trained to meet the job qualifications identified in the *Quality Assurance for Stormwater Multi-Sector General Permit for Industrial Activities Program* (ENV-CP-QAPP-MSGP) and shall be familiar with the regulatory requirements identified in the MSGP, demonstrated by achieving a satisfactory score on the *MSGP Routine Facility Inspections* on-the-job training course #53040. Further, they shall be familiar with facility operations and controls to minimize potential pollutant sources and proactively maintain controls in an attempt to prevent conditions that require corrective action.

The DEPs are responsible for implementing this procedure. They will identify conditions requiring corrective actions observed at their industrial sites and enter them into the CAR database. DEPs act as liaison between the FOD, DESH Manager and facility/operations personnel to ensure all corrective actions are addressed appropriately by overseeing maintenance and/or installation of additional controls, as needed. DEPs are responsible for ensuring corrective action(s) is completed per MSGP requirements and the corrective action timeline (see Sections 5.2.1 and 5.2.2 of this procedure). They will also provide timely updates to the CAR database for closure or update of corrective actions as they are implemented.

When permit limits are exceeded, DEPs are responsible for identifying the source and maintaining existing controls or implementing additional controls, as necessary, to prevent further exceedances.

MSGP Corrective Actions	EPC-CP-QP-022	Page 8 of 31
WISGF Corrective Actions	Revision: 3	Effective Date: 12/20/2018

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 <u>LANL Stormwater BMP Manual</u>.

DEPs will notify the EPC-CP MSGP data administrator or MSGP Program Lead of key personnel changes (FOD, DESH Manager, Ops Manager, DEP) to ensure automated CAR status notifications are distributed to the appropriate personnel.

CAUTION

Failure to appropriately control pollutant discharges can result in fines and penalties.

Implementing the same control measure numerous times without an improvement in minimization of off-site pollutants is an indication that the control measure is not stringent enough to meet Technology-Based or Water Quality-Based effluent limits identified in the MSGP. Per the MSGP, documentation is required in the SWPPP that justified the selection, design, installation and implementation of a control measure to ensure effluent limits are met.

4.3 EPC-CP Storm Water Team Leader

The EPC-CP Storm Water Team Leader (or team leader) is responsible for compliance oversight relative to the MSGP. The team leader will ensure resources needed to implement the regulatory requirements identified in the MSGP are identified and environmental risks are assessed. Upper management will be notified of these resources or environmental risks, as deemed necessary. In the event there is a dispute regarding the regulatory requirements contained in the MSGP, the Team Leader will make the final determination of the required action. The Team Leader will notify upper management of instances of non-compliance with the permit.

4.4 EPC-CP Group Leader

The EPC-CP Group Leader or designee is responsible for ensuring there are adequate resources to implement the regulatory requirements identified in the MSGP. The group leader also acts as the duly authorized signatory that certifies the Annual Report or Routine Facility Inspections conducted by EPC-CP personnel. The group leader will notify upper management of instances of non-compliance with the permit or other identified environmental risk.

4.5 DESH Manager

The DESH Manager shall work with programmatic entities and the FOD to identify resources for their industrial sites to ensure permit requirements can be implemented. The DESH Manager is responsible for the performance of DEPs under their management. They also provide oversight for ensuring that industrial sites are complying with the MSGP and are responsible for notifying upper management of instances of non-compliance with the permit or other identified environmental risk they become aware of.

MSGP Corrective Actions	EPC-CP-QP-022	Page 9 of 31
WISGF Corrective Actions	Revision: 3	Effective Date: 12/20/2018

4.6 Facilities Operations Director

The FOD provides organizational leadership to ensure that all facility and programmatic activities under their authority are performed in compliance with the MSGP. The FOD is also responsible for establishing an environmental compliance envelope. It is the FOD's responsibility to maintain trained and qualified DEPs and Waste Management Coordinators (WMCs) on staff.

5.0 PROCESS DESCRIPTION

Requirements regarding corrective actions are described in Part 4 of the MSGP. These requirements and conditions are summarized in this section and directly correspond to data fields and lists of values available in the CAR database.

5.1 Identifying Conditions Requiring Corrective Actions

Deployed Environmental Professional (DEP)

- [1] <u>IF</u> any of the following conditions are identified, <u>THEN</u> review and revise, as appropriate, the selection, design, installation, and implementation of control measures in the SWPPP to eliminate the condition and prevent recurrence in the future:
 - An unauthorized release or discharge (e.g., spill, leak, or discharge of nonstormwater not authorized by the MSGP [see Section 5.6 of this procedure for a description of allowable discharges]);
 - An inspection or evaluation of the facility by an EPA official and/or local or State entity, determines that modification to the control measures are necessary to meet the non-numeric effluent limits in the MSGP;
 - It is observed during the routine facility inspection, facility walk-down, and/or the quarterly visual assessment that the control measures are not being properly operated and maintained;
 - Construction or a change in design, operation, or maintenance at the facility significantly changes the nature of pollutants discharged in stormwater from the facility, or significantly increases the quantity of pollutants discharged;
 - The average of four quarterly sampling results exceeds an applicable benchmark.
 If less than four benchmark samples have been taken, but the results are such
 that an exceedance of the four quarter average is mathematically certain, (i.e., if
 the sum of quarterly sample results to date is more than four times the
 benchmark level) this is considered a benchmark exceedance;
 - If effluent limitation guidelines are exceeded at the Asphalt Batch Plant (Sector D); or
 - If impaired water quality standards are exceeded.

MSGP Corrective Actions	EPC-CP-QP-022	Page 10 of 31
WISGF Corrective Actions	Revision: 3	Effective Date: 12/20/2018

DEP and/or EPC-CP MSGP stormwater personnel

[2] Enter all conditions requiring a corrective action into the EPC-CP MSGP CAR database.

DEP and/or Facility Personnel

- [3] Take immediate action to mitigate the condition requiring a corrective action.
- [4] If needed, follow the permit timeline and process for individual corrective actions that require extensive maintenance.
- [5] Any person authorized to conduct work at LANL can identify a potential stormwater issue. If this occurs, they will:
 - [a] Contact the DEP or EPC-CP MSGP stormwater personnel.
 - [b] The DEP or EPC-CP MSGP stormwater personnel will determine if a condition exists that requires a corrective action.

5.2 Corrective Action Deadlines and Documentation

Specific deadlines for taking corrective action and required documentation are provided in the subsections below.

5.2.1 Immediate Action

DEP and/or Facility Personnel

- [1] <u>IF</u> a condition exists that requires corrective action, as described in Section 5.1 [1], <u>THEN</u> take the following action immediately (on the same day the condition is found):
 - [a] All reasonable steps necessary to minimize or prevent the discharge of pollutants until a permanent solution is installed and made operational.
 - [b] Clean up any contaminated surfaces so that material will not discharge during subsequent storm events.
 - [c] Minimize or prevent the discharge of pollutants until a permanent solution (if necessary) is installed and made operational.
 - [d] Any corrective action resulting in a change to a stormwater control or procedure (documented in the SWPPP) requires modification of the SWPPP within 14 calendar days of completing corrective action work.

NOTE

For minor conditions, immediate action is often sufficient and no additional action is necessary.

[2] <u>IF</u> a condition is identified at a time in the work day when it is too late to initiate corrective action (i.e., 3:00 pm or later), <u>THEN</u>:

MSGP Corrective Actions	EPC-CP-QP-022	Page 11 of 31
WISGF Corrective Actions	Revision: 3	Effective Date: 12/20/2018

- [a] Corrective action must begin no later than the following work day.
- [b] Implement the requirements identified in Section 5.2.1 [1] above.

CAUTION

Solely calling or e-mailing personnel requesting action to be taken is not considered taking immediate action. Entering a Facility Service Request (FSR) is appropriate if it formally starts the work process to address the condition. Temporary BMPs still need to be put in place to minimize or prevent off-site migration of pollutants, especially if a storm event is likely.

5.2.2 Subsequent Action

DEP and/or Facility Personnel

[1] IF additional action is required,

THEN:

- [a] Complete the corrective action (e.g., install a new or modified control and make it operational or complete the repair) before the next storm event or within 14 calendar days from the time of discovery.
- [b] Any corrective action resulting in a change to a stormwater control or procedure documented in the SWPPP requires modification of the SWPPP within 14 calendar days of completing corrective action work.
- [2] <u>IF</u> completion of the corrective action is <u>infeasible</u> within the 14-day timeframe, **THEN**:
 - [a] Document the reasoning in the database.
 - [b] Provide a schedule for completion of the corrective action in the database.

NOTE

Completion of the corrective action cannot exceed 45 days from the time of discovery without having to notify EPA. These time intervals are not grace periods, but are schedules considered reasonable for documenting finding(s) and for making repairs and improvements. They are included in the MSGP to ensure that the conditions prompting the need for these repairs and improvements are not allowed to persist indefinitely. In no instance will the corrective action remain open indefinitely (Part 4.3.2 of the MSGP).

5.2.3 Corrective Action Documentation

DEP and/or EPC-CP

[1] Document existence of any of the conditions listed in Section 5.1 [1] of this procedure in the CAR database within 24 hours of becoming aware of such condition (or if identified late in the work day, by the following work day).

MSGP Corrective Actions	EPC-CP-QP-022	Page 12 of 31
WISGF Corrective Actions	Revision: 3	Effective Date: 12/20/2018

- [2] Include the following information in the documentation:
 - Description of the condition triggering the need for corrective action review. For any spills or leaks, include the following information:
 - a description of the incident including material, date/time, amount, location, and reason for spill;
 - any leaks, spills or other releases that resulted in discharges of pollutants to waters of U.S., through stormwater or otherwise;
 - · Date the condition was identified; and
 - Description of immediate actions taken (Part 4.3.1 of the MSGP) to minimize or prevent the discharge of pollutants. For any spills or leaks, include response actions, the date/time clean-up was completed, notifications made (if any), and staff involved. Also include any measures taken to prevent the reoccurrence of such releases (Part 2.1.2.4 of the MSGP).
- [3] Provide the dates when each corrective action was initiated and completed (or is expected to be completed).
 - [a] If applicable, document why it is infeasible to complete the necessary installations or repairs within the 14-day timeframe, and
 - [b] Document your schedule for installing the controls and making them operational as soon as practicable after the 14-day timeframe.
 - [c] <u>IF</u> EPA must be notified regarding an extension of the 45-day timeframe, **THEN** the DEP must document the rationale for an extension.

EPC-CP MSGP stormwater personnel

[4] Prepare and submit 45-day exceedance notifications based on information entered into the CAR database by the DEPs.

DEP

- [5] Ensure that the information in the CAR database is kept up-to-date, to include the following:
 - [a] a thorough description of the nature of the condition requiring corrective action,
 - [b] corrective action(s) taken and/or outstanding,
 - [c] the steps and schedule for completing a corrective action (if not completed within 14 days), and
 - [d] rationale for why the corrective action cannot be completed within 45-days.

5.3 Effect of Corrective Action

When the condition requiring corrective action is a permit violation (e.g., non-compliance with an effluent limit or exceedance of a water quality standard), correcting it does not remove the original

MSGP Corrective Actions	EPC-CP-QP-022	Page 13 of 31
WISGF Corrective Actions	Revision: 3	Effective Date: 12/20/2018

violation. Additionally, failing to take corrective action in accordance with Part 4 of the MSGP is an additional permit violation.

NOTE

The EPA will consider the appropriateness and promptness of corrective action in determining enforcement responses to permit violations (Part 4.5 of the MSGP).

5.4 Substantially Identical Outfalls

When the condition requiring corrective action is associated with an outfall that has been identified as a "substantially identical outfall" (see Parts 3.2.3 and 6.1.1 or the MSGP), a review will assess the need for corrective action for all related substantially identical outfalls. Any necessary changes to control measures that affect these other outfalls will be made before the next storm event if possible, or as soon as practicable following that storm event. Any condition requiring corrective action(s) will be addressed within the timeframes set forth in Part 4.3 of the MSGP (also see Section 5.2 of this procedure).

5.5 Spills

DEP and/or Facility Personnel

- [1] Clean up all leaks or spills immediately and enter into the CAR database.
 - [a] If the spill is immediately cleaned up, and controls are implemented to prevent further leakage, the condition requiring corrective action can be closed.

5.6 Allowable Non-Stormwater Discharges

The following are allowable non-stormwater discharges authorized by the MSGP:

- Discharges from emergency/unplanned fire-fighting activities;
- Fire hydrant flushing;
- Potable water, including water line flushing;
- Uncontaminated condensate from air conditioners, coolers/chillers, and other compressors and from the outside storage of refrigerated gases or liquids;
- Irrigation drainage;
- Landscape watering provided all pesticides, herbicides, and fertilizer have been applied in accordance with the approved labeling;
- Pavement wash waters where no detergents or hazardous cleaning products are used (e.g., bleach, hydrofluoric acid, muriatic acid, sodium hydroxide, nonylphenols), and wash waters do not come into contact with oil and grease deposits, sources of pollutants associated with industrial activities (see Part 5.2.3 of the MSGP), or any other toxic or hazardous materials, unless residues are first cleaned up using dry clean-up methods (e.g., applying absorbent

MSGP Corrective Actions	EPC-CP-QP-022	Page 14 of 31
WISGF Corrective Actions	Revision: 3	Effective Date: 12/20/2018

material and sweeping, using hydrophobic mops/rags) and you have implemented appropriate control measures to minimize discharges of mobilized solids and other pollutants (e.g., filtration, detention, settlement);

- Routine external building washdown/power wash water that does not use detergents or hazardous cleaning products (e.g., those containing bleach, hydrofluoric acid, muriatic acid, sodium hydroxide, nonylphenols);
- Uncontaminated ground water or spring water;
- Foundation of footing drains where flows are not contaminated with process materials; and
- Incidental windblown mist from cooling towers that collects on rooftops or adjacent portions
 of your facility, but not intentional discharges from the cooling tower (e.g., "piped" cooling
 tower blowdown or drains).

5.7 Entering a Condition Requiring Corrective Action

To enter a condition requiring corrective action into the CAR database, perform the steps in this section.

Enter clear, complete, and concise language. Correct grammar, punctuation, and spelling errors.

Select the appropriate value from each pull-down menu that applies to the condition requiring corrective action. This information will be used to populate a report that will be submitted to the EPA and is extracted from the database to populate automatic e-mail notifications to managers. Therefore, it is critical that all information entered into the CAR database is correct.

DEP or EPC-CP MSGP stormwater personnel

- [1] Using internet explorer, access the CAR database at https://msgp-car.lanl.gov/forms/frmservlet?config=msgp car.
- [2] From the main screen, click on "Enter New Corrective Action."
 - [a] Select the "Corrective Action Header" tab.
 - [b] Enter the following (refer to Attachment 1 for data entry screenshot cross reference to Item numbers in red listed below):
 - Item 1: Name of facility by clicking on the "List" tab and selecting a facility (refer to Attachment 2 for a list of available facilities).
 - Item 2: Date/Time problem was identified (mm/dd/yyyy hh:mm) (the inspection date or the date you first become aware of the issue).

There must be a space between the date (mm/dd/yyyy) and the time (hh:mm).

All dates and times will be entered as mm/dd/yyyy hh:mm in 24-hr (military time) format. Time is tracked to document whether immediate action was taken, whether the issue was documented within 24 hours, and the specific time interval before a corrective action is completed and closed (see Section 5.2 of

MSGP Corrective Actions	EPC-CP-QP-022	Page 15 of 31
WISGF Corrective Actions	Revision: 3	Effective Date: 12/20/2018

this procedure for corrective action deadlines). Do not leave time as 00:00 (the system default) unless the action occurred at midnight.

- Item 3: Date/Time of Notification to EPC-CP (mm/dd/yyyy hh:mm) (the date the condition is entered into the CAR database or verbal or written notification is provided to the EPC-CP MSGP Program Lead. Conditions reported by verbal or written notification must still be entered into the CAR database.)
 - The existence of any of the conditions listed in Section 5.1 of this procedure must be documented in the CAR database within 24 hours of becoming aware of such condition (or if identified late in the work day, by the following work day).
- Item 4: FOD Responsible for CA (Name & Org) by clicking in the box. FOD designations (for example "STO") and the associated name list will pop up. Select the appropriate FOD.
 - Contact the EPC-CP MSGP Program Lead at 667-1312 or hbenson@lanl.gov if the FOD name or organization is incorrect, so this can be corrected.
- Item 5: Describe Specific Evaluation Location (for example, "Northeast corner of Building TA-3-66.")
- Item 6: Inspector Z-Number by clicking in the box, which will populate with the Z number of the person who is logged into the database and performing entry. In most instances, the DEP will be identified as the inspector.
- Item 7: Person Identifying Condition Z-Number by clicking in the box, which will populate with the Z number of the person who is logged into the database and performing entry. If the person identifying the condition is someone other than the inspector, enter that person's Z-number.
 - Any person authorized to conduct work at LANL can identify a potential stormwater issue. If this occurs, they will contact the DEP or EPC-CP MSGP stormwater personnel who will determine if a condition exists that requires corrective action.
- Item 8: Status defaults to "A new corrective action" without making a selection. In the event a condition is entered that is determined to not require corrective action, this status can be changed to "Void" by clicking in the box and selecting from the Status list. The decision to assign a status of "Void" is at the discretion of EPC-CP MSGP stormwater personnel and reserved for EPC-CP use.
- Item 9: If the Status is changed to "Void," enter a clear rationale for voiding the record.
- Item 10: Once all of the above information is entered correctly, click "Save" and go to Step 3.
 - All boxes identified with a red asterisk are "required fields" meaning the form cannot be saved unless these fields are completed. For the purpose of fulfilling

MSGP Corrective Actions	EPC-CP-QP-022	Page 16 of 31
Wisdr Corrective Actions	Revision: 3	Effective Date: 12/20/2018

corrective action documentation requirements (see Section 5.2.3 of this procedure), all applicable fields are required fields.

The system will automatically assign a Corrective Action Report identification (ID) number and move to the "Corrective Action Details" tab.

- [c] Select the "Corrective Action Details" tab.
- [d] Enter the following:
 - Item 11: Identify the condition triggering the need for this review by clicking on the "List" button and selecting the appropriate condition or, if none of the available conditions fit the issue, selecting "Other" and entering a description of the condition (refer to Attachment 2 for a list of available conditions/finding descriptions).

These conditions are described in Section 5.1 of this procedure. Qualified personnel (EPC-CP MSGP stormwater personnel and DEPs) must be knowledgeable of these conditions and select the correct one when entering an issue. If there is uncertainty about which condition applies, refer to the definitions in Section 8.1 of this procedure or contact the MSGP Program Lead at 667-1312 or hbenson@lanl.gov for clarification prior to selecting "Other."

- Item 12: If the condition in Item 11 is set to "Other," enter a description of the condition in this field.
- Item 13: Briefly describe the nature of the problem identified during the inspection (e.g., erosion, damage to a BMP, trash, spill, etc.,) and the specific evaluation location (e.g., at TA-60 Roads and Grounds).
 - Spills or other emergency conditions meeting the criteria for corrective action (identified in Parts 4.1 and 4.2 of the MSGP) will require documentation in the CAR database even though the condition was not identified during an inspection.
- Item 14: Enter how the problem was identified by clicking on the "List" button and selecting the appropriate option, or if none of the available options fit, selecting "Other."
- Item 15: If "Other" is selected for Item 14, enter a description of how the problem was identified in this field.
- Item 16: Enter a description of the condition requiring corrective action, or identify action to be taken to eliminate or further investigate the problem (e.g., describe modifications or repairs to control measures, work conducted to address the condition or to be scheduled in the future, etc.,) or if no modifications are needed, the basis for that determination. Include relevant dates and facts when updating this field as the corrective action progresses.
- Item 17: Indicate whether the problem was identified at a Substantially Identical Outfall (see Section 5.4 of this procedure) by typing "Y" for yes and "N" for no.

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EPC-CP-QP-022	Page 17 of 31
Revision: 3	Effective Date: 12/20/2018

- Item 18: If the answer to Item 17 is "Y," enter the associated SIO(s) in this field. If the answer to Item 17 is "N," leave this field blank. SIOs are identified in the site-specific SWPPPs. For assistance with identifying SIOs contact the MSGP Program Lead.
- Item 19: If the answer to Item 17 is "Y," describe how the corrective action taken is appropriate for all SIOs (see Section 5.4 of this procedure), document any additional corrective action(s) needed for any of the SIOs, or document why no additional action is needed for the SIOs. If the answer to Item 17 is "N," leave this field blank.
- Item 20: Did/will the corrective action require modification to the SWPPP? Type in "Y" for yes and "N" for no (see Section 5.1 of this procedure for conditions that require SWPPP review and revision).
- Item 21: Date/Time Corrective Action was initiated (mm/dd/yyyy hh:mm).

The duration between the Date/Time problem was identified and Date/Time corrective action was initiated is used to determine whether "immediate action" was taken (see Section 5.2.1 of this procedure). Immediate action is a requirement of the MSGP and therefore, will be documented in accordance with permit requirements.

• Item 22: Date/Time corrective action was completed **OR** expected completion Date/Time (mm/dd/yyyy hh:mm).

If the corrective action has not been completed, enter an expected completion date and time. The system will not allow entry of a date in both locations.

The duration between the Date/Time Problem was Identified and Date/Time corrective action was completed <u>or</u> the Date/Time Problem was identified and expected completion Date/Time is used to determine whether "subsequent action" timeframes and documentation requirements were/are being met, and to forecast where a 45-day exceedance notification to EPA is required (see Section 5.2.3 of this procedure). When information is incorrect or not entered, the MSGP data administrator or Program Lead will contact the originator and request correction(s).

- Item 23: If the corrective action is not or will not be completed within 14 days, provide the status of the corrective action at the end of the 14 day timeframe, the rationale for why it is infeasible to complete the corrective action within 14 days, and describe any remaining steps (including timeframe/schedule associated with each step) necessary to complete the corrective action.
- Item 24: Date EPA notified of intent to exceed 45 Days (mm/dd/yyyy hh:mm) is to be completed by EPC-CP MSGP stormwater personnel to document submittal of notification letter.
- Item 25: Once all of the above information is entered correctly, click "Save" so the corrective action information is retained.

MSGP Corrective Actions	EPC-CP-QP-022	Page 18 of 31
WISGF Corrective Actions	Revision: 3	Effective Date: 12/20/2018

[3] <u>IF</u> there are additional conditions to enter requiring corrective action, as described in Section 5.1 [1],

THEN perform these steps:

- [a] Return to the "Corrective Action Header" tab.
- [b] Click the "Enter New Corrective Action" button in the lower left hand corner of the screen.
- [c] Click "Back to Record Selection" to return to the list of saved conditions requiring corrective action on the initial screen (if desired).

5.8 Updating Corrective Actions

DEP or EPC-CP MSGP stormwater personnel

- [1] Access the CAR database at https://msgp-car.lanl.gov/forms/frmservlet?config=msgp car.
 - [a] On the main screen, scroll down to the corrective action number to be edited.
 - [b] Click "Edit."
- [2] Navigate to the desired field, and input the updated information. Most changes will occur relative to updating the status, schedule, and dates of corrective actions.
- [3] Click "Save" to save all changes to the information.

5.9 Validation of Corrective Actions

EPC-CP MSGP stormwater personnel

- [1] Access the CAR database at https://msgp-car.lanl.gov/forms/frmservlet?config=msgp car.
- [2] Ensure information entered into the CAR database is correct.
 - [a] Check all entered fields for a condition requiring corrective action to ensure that information is clear, correct, and concise.
 - [b] <u>IF</u> not, <u>THEN</u> notify the DEP of the information that needs to be changed.
 - [c] The DEP is responsible for ensuring all information is validated before generating the annual report.
- [3] <u>IF</u> the identified condition requiring corrective action is a repeat of a previous condition or if it is determined not to be a condition requiring corrective action,

THEN

- [a] Under "Status," select "Void."
- [b] The "Void" designation allows MSGP stormwater personnel to manually exclude this information in the annual report.

MSGP Corrective Actions	EPC-CP-QP-022	Page 19 of 31
WISGF Corrective Actions	Revision: 3	Effective Date: 12/20/2018

5.10 Issues Management

EPC-CP MSGP stormwater personnel or DEPs use the IM tool as the institutional performance issues and tracking system for identified quality assurance (QA) affecting issues. A QA affecting issue includes, but is not limited to, the following conditions.

- Exceedance of a water quality standard.
- Exceedance of an effluent limitation (i.e., at the Asphalt Batch Plant).
- Repeat conditions requiring corrective actions or trends identified by EPC-CP MSGP stormwater personnel.
- Conditions requiring immediate action, where failure to take action would result in pollutants being released to waters of the state.
- Immediate non-compliance with the MSGP.
- Violations identified by the regulatory authority.

The MSGP Program Lead periodically evaluates a summary of open conditions requiring corrective actions in the CAR database. Using the above conditions, the MSGP Program Lead or DEP determines which corrective actions, if any, will be transferred into the IM tool.

DEP or EPC-CP MSGP stormwater personnel

- [1] <u>IF</u> an issue needs to be entered into the IM tool, <u>THEN</u> send the following information to the EPC Division IMC for entry into the IM tool:
 - Organization responsible for the issue/problem;
 - A description of the nature of the condition identified and what needs to be done to address it;
 - Regulatory citation for the non-compliance;
 - Issues Responsible Manager (IRM);
 - Action, actionee, and due date for each issue; and
 - Whether the issue was identified internal or external to LANL.

5.11 Notifications for New and Overdue Corrective Actions

- [1] When a new condition requiring corrective action is entered into the CAR database, the FOD, Ops Manager, DESH Manager, inspector (usually the DEP) and EPC-CP MSGP stormwater personnel and managers are notified automatically by e-mail on the evening of the day the corrective action was entered.
- [2] Automated e-mail notifications will be sent during the corrective action process depending on the length of time it will take to close.
- [3] A notification will be sent out:

MSGP Corrective Actions	EPC-CP-QP-022	Page 20 of 31
WISGF Corrective Actions	Revision: 3	Effective Date: 12/20/2018

- When a new corrective action is entered into the database (see Attachment 3);
 and
- Weekly notifications of outstanding (open) corrective actions (see Attachment 4).

Each notification contains a hyperlink to a web-based report containing a list of all open issues and timeline status where final corrective actions have not been completed (see Attachment 5) by the FOD. The report contains the FOD, Facility, unique Corrective Action identification number assigned by the CAR database, the person identifying the condition, the date the issue was identified, the date corrective action was initiated, the projected completion date, and a color-coded count (corresponding to the Corrective Action deadlines in Section 5.2 of this procedure) of the number of days to take action and the number of days the issue has been open, and the issue/problem description.

These notifications serve to apprise recipients of the status of open conditions requiring corrective actions and to provide sufficient time for MSGP stormwater personnel to provide documentation to EPA at the 45-day deadline. This will assist the FOD, DESH Managers, Ops Managers, and the DEPs with keeping track of conditions requiring corrective actions.

6.0 TRAINING

The following personnel require training before implementing this procedure:

- EPC-CP Group Leader and Team Leader;
- EPC-CP MSGP stormwater personnel;
- DEPs; and
- Other LANL or subcontract personnel identified as being required to conduct stormwater inspections, or other assessments and enter conditions requiring corrective actions into the CAR database as part of their job duties.

For EPC-CP MSGP stormwater personnel, the training method for this procedure is "self-study" (reading). DEPs shall achieve a satisfactory score on Training Course 53040, MSGP Routine Facility Inspections OJT. Other participating groups may require training documentation pursuant to local procedures.

Personnel performing this procedure will be familiar with the most current version of the following procedure:

ENV-CP-QAPP-MSGP, Multi-Sector General Permit for Industrial Activities Program

7.0 RECORDS

Conditions requiring corrective actions are contained within the CAR database. DEPs will retain documentation substantiating these conditions, corrective actions, and timelines reported in the CAR database (e.g., e-mails, FSRs, Work Orders, etc., as appropriate). These documents shall be made available to EPC-CP upon request.

MSGP Corrective Actions	EPC-CP-QP-022	Page 21 of 31
WISGF COTTECTIVE ACTIONS	Revision: 3	Effective Date: 12/20/2018

8.0 DEFINITIONS AND ACRONYMS

See LANL Definition of Terms.

8.1 Definitions

Best Management Practice (BMP)—Schedules of activities, prohibitions of practices, maintenance procedures, and other management practices to prevent or reduce the pollution of "waters of the United States." BMPs also include treatment requirements, operating procedures, and practices to control plant site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage. (40 CFR Part 122.2)

Control Measure—Any BMP or other method (including effluent limitations) used to prevent or reduce the discharge of pollutants to waters of the United States.

Numeric effluent limitation—The degree of effluent reduction attainable by the application of the best practicable control technology currently available (see 40 CFR Part 443.12). For LANL, numeric effluent limitations apply only to the Asphalt Batch Plant (Sector D) (see Table 1-1 of the MSGP). Constituents with limitations for Sector D include Total Suspended Solids, pH, and oil and grease (see Table 8.D-2 of the MSGP).

Note: Exceedance of a numeric effluent limitation is a violation of the MSGP (see Part 4.1 of the MSGP).

Non-numeric effluent limitations—Per Part 2.1.2 of the MSGP, these include minimizing exposure, good housekeeping, maintenance, spill prevention and response, erosion and sediment controls, management of runoff, salt storage controls, employee training, elimination of non-stormwater discharges, and minimizing dust generation and vehicle tracking of industrial materials.

Unauthorized release or discharge—The release of any liquid or solid substance (within the boundary of an MSGP site) that is not an allowable non-stormwater discharge (see Section 5.6). Examples are hydraulic oil, gasoline, diesel, powdered concrete, concrete washout, steam condensate line leaks, etc.

Impaired water quality exceedance—Exceedance of a New Mexico water quality standard. These standards are specified in the New Mexico Administrative Code, Title 20, Chapter 6, Part 4, *Standards for Interstate and Intrastate Surface Waters*.

Note: Industrial stormwater discharges must be controlled as necessary to meet applicable water quality standards within the State of New Mexico (see Part 2.2.1 of the MSGP).

8.2 Acronyms

See LANL Acronym Master List.

ВМР	Best Management Practice
CA	Corrective Action
CAR	Corrective Action Report
EPA	Environmental Protection Agency

MSGP Corrective Actions	EPC-CP-QP-022	Page 22 of 31
WISGF Corrective Actions	Revision: 3	Effective Date: 12/20/2018

EPC-CP	Environmental Protection and Compliance-Compliance Programs
DEP	Deployed Environmental Professional
DESH	Deployed Environmental, Safety and Health
ID	Identification
IM	Issues Management
IMC	Issues Management Coordinator
IRM	Issues Responsible Manager
IWD	Integrated Work Document
FOD	Facility Operations Director
FSR	Facility Service Request
HEY	Heavy Equipment Yard
LANL	Los Alamos National Laboratory
MSGP	Multi-Sector General Permit
N	No
NPDES	National Pollutant Discharge Elimination System
Ops	Operations
Р	Procedure
PD	Program Description
QA	Quality Assurance
QP	Quality Procedure
SD	System Description
STO	Science and Technology Operations
SWPPP	Stormwater Pollution Prevention Plan
40 CFR	Title 40 of the Code of Federal Regulations
WMC	Waste Management Coordinator
Υ	Yes

9.0 REFERENCES

- Final National Pollutant Discharge Elimination System (NPDES) General Permit for Stormwater Discharges from Industrial Activities. Federal Register: June 16, 2015, Volume 80, Number 115.
- <u>Unites States Environmental Protection Agency (EPA) National Pollutant Discharge</u>
 Elimination System (NPDES) Multi-Sector General Permit For Stormwater Discharges
 Associated With Industrial Activity (MSGP)
- Los Alamos National Laboratory Storm Water BMP Manual

MSGP Corrective Actions	EPC-CP-QP-022	Page 23 of 31
WISGF COTTECTIVE ACTIONS	Revision: 3	Effective Date: 12/20/2018

- PD100, DOE/NNSA Approved Los Alamos National Laboratory 10 CFR 857 Worker Safety and Health program Description
- <u>SD100, Integrated Safety Management System</u>
- P101-18, Procedure for Pause/Stop Work
- EPC-CP-QP-023, MSGP Routine Facility Inspections

10.0 ATTACHMENTS

Attachment 1: Screenshot Example of CAR Database

Attachment 2: Lists of Limited Values in the CAR Database

Attachment 3: Example New Corrective Action Finding Notification

Attachment 4: Example Weekly Notification of Outstanding Corrective Action Findings

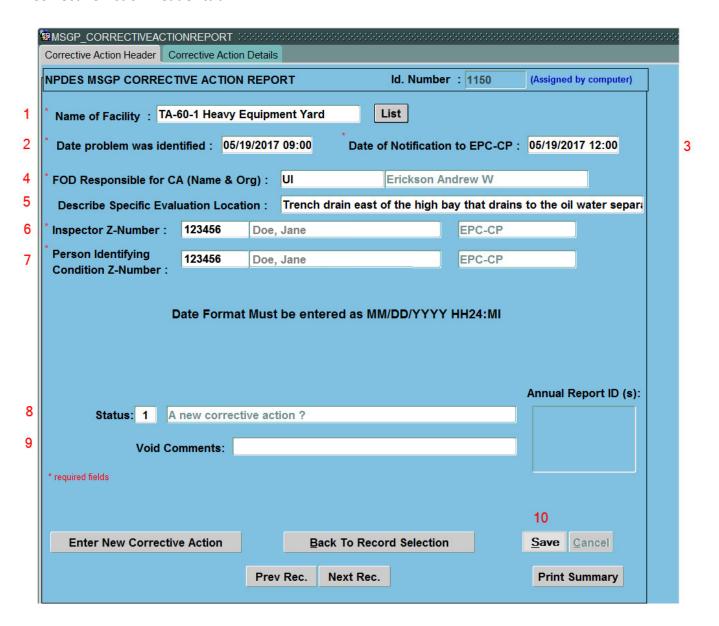
Attachment 5: Example Outstanding Corrective Action Report

MSGP Corrective Actions	EPC-CP-QP-022	Page 24 of 31
wisgr corrective actions	Revision: 3	Effective Date: 12/20/2018

Attachment 1 - Screenshot Example of CAR Database

Page 1 of 3

Corrective Action Header tab



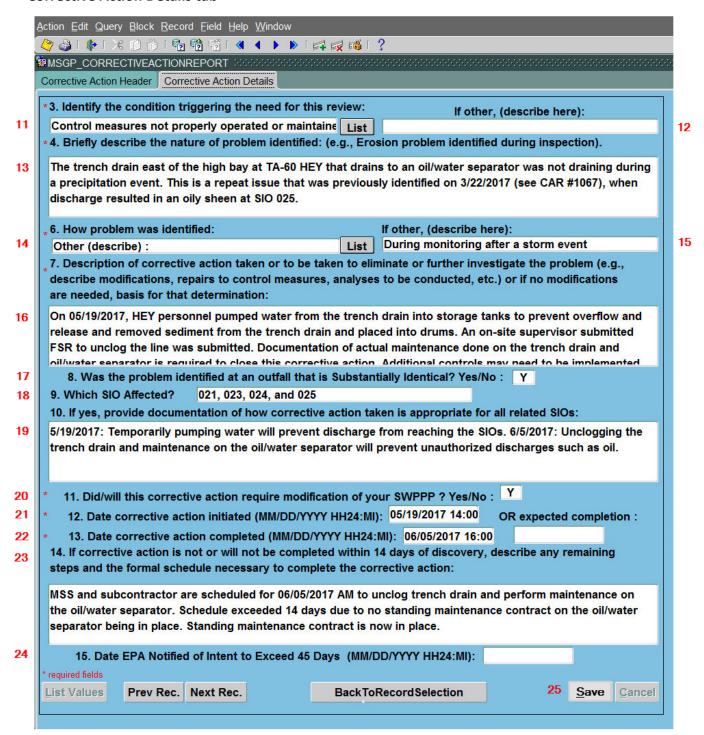
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EPC-CP-QP-022	Page 25 of 31
Revision: 3	Effective Date: 12/20/2018

Attachment 1 - Screenshot Example of CAR Database (cont.)

Page 2 of 3

Corrective Action Details tab



MSGP Corrective Actions	EPC-CP-QP-022	Page 26 of 31
WISGF Corrective Actions	Revision: 3	Effective Date: 12/20/2018

Attachment 1 – Screenshot Example of CAR Database (cont.)

Page 3 of 3

Full Text for Item 16: Description of Corrective Action Taken or to be Taken

On 05/19/2017, HEY personnel pumped water from the trench drain into storage tanks to prevent overflow and release. Sediment was also removed from the trench drain and placed into drums. An on-site supervisor submitted an FSR to unclog the line. Documentation of actual maintenance done on the trench drain and oil/water separator is required to close this corrective action. Additional controls may need to be implemented until maintenance is complete to ensure that oil is not discharged into the drainage channel north of the site. In addition, the SWPPP must be modified to identify the preventative maintenance schedule and include the procedure for conducting it. On 05/30/2017, the SWPPP was modified to include a quarterly maintenance schedule and a procedure for routine maintenance on the oil/water separator. On 06/05/2017, MSS jet-routed the drain to remove the clog and a subcontractor performed maintenance on the oil/water separator.

MSGP Corrective Actions	EPC-CP-QP-022	Page 27 of 31
	Revision: 3	Effective Date: 12/20/2018

Attachment 2 - Lists of Limited Values in the CAR Database

Page 1 of 2

Name of Facility (Item 1 on Attachment 1 Screenshot)

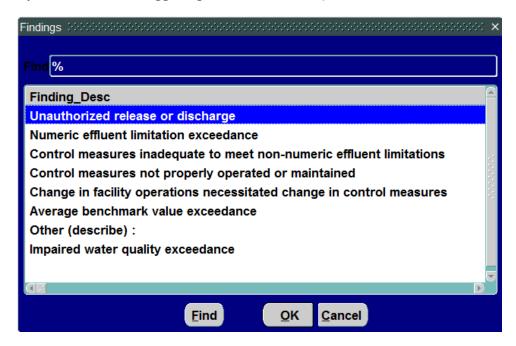


MSGP Corrective Actions	EPC-CP-QP-022	Page 28 of 31
WISGF Corrective Actions	Revision: 3	Effective Date: 12/20/2018

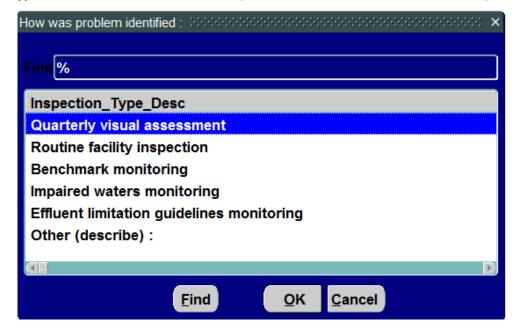
Attachment 2 – Lists of Limited Values in the CAR Database (cont.)

Page 2 of 2

Finding Description/Condition Triggering Need for Review (Item 11 on Attachment 1 Screenshot)



Inspection Type/How Problem was Identified (Item 14 on Attachment 1 Screenshot)



MSGP Corrective Actions

EPC-CP-QP-022	Page 29 of 31
Revision: 3	Effective Date: 12/20/2018

Attachment 3 – Example New Corrective Action Finding Notification

Page 1 of 1

 $\label{lem:main_solution} From: MSGPC or rective Action DB@esp-esh-as 01. lanl. gov [mail to: MSGPC or rective Action DB@esp-esh-as 01. lanl. gov] \\ \textbf{Sent: Friday, January 19, 2018 10: 00 PM}$

To:

Cc:

Subject: New Corrective Action finding relative to the NPDES MSGP Program

This email is generated automatically by the National Pollutant Discharge Elimination System (NPDES) Multi-Sector General Permit (MSGP) Corrective Action Report (CAR) database to provide notification of discovery of a new condition requiring corrective action. As the recipient of this notification, you are responsible for immediately taking all reasonable steps necessary to minimize or prevent the discharge of pollutants until a permanent solution is installed and made operational.

"Immediately" requires initial action on the same day a condition is found. However, if a problem is identified at a time in the work day when it is too late to initiate corrective action (after 2 P.M.), the initiation must begin no later than the following work day.

Documentation of newly identified conditions requiring corrective action must occur within 24 hours of discovery, evidenced by entry into the CAR database.

At TA-50-37 WCRRF on 01/17/18, a condition requiring a corrective action was observed and a corrective action report was generated per the 2015 Multi-Sector General Permit requirements for stormwater controls at industrial sites. The condition(s) requiring a corrective action(s) is/are listed below.

CA#: 1296 located at TA-50-37 WCRRF.

Person Identifying Condition: DOE JANE

Description of finding: Unauthorized release or discharge

Condition requiring corrective action: Forklift was leaking hydraulic fluid

Description of the corrective action taken or to be taken to eliminate the condition or further investigation: On 1/17/2018 prior tot he start of work the operator noticed the forklift was leading hydraulic fluid from the line to the mast. Approximately 4 to 6 oz leaked onto the asphalt. The Operation Center was notified and the WMC and ENV. The Nuc Operators placed spill pads under the leak. FSR#182723 was entered to repair forklift and apply microblaze. At 1702 MSS personnel applied micro blaze to the spill. On 1/18/2018 the WMC collected all spill pads and managed them accordingly.

Status: The corrective action was initiated on 01/17/2018 and was completed on 01/17/2018.

Click <u>HERE</u> to access the list of MSGP corrective action(s) not yet completed for EWMO.

Click $\underline{\mathsf{HERE}}$ to access the list of all MSGP corrective action(s) not yet completed

The ESH Deployed Environmental Professional (DEP) assigned to your organization/area is (are) Jane Doe.

The color legend on the linked reports corresponds to the following schedule for corrective action completion as required by the 2015 MSGP:

You must complete the corrective action within 14 calendar days of discovery

If completion of final corrective actions within 14 days is not feasible, the reason(s) must be documented and a description of steps required and formal schedule for completion, which must be done as soon as practicable after the 14-day timeframe, but not longer than 45 days after discovery. The reasons, steps and schedule for completion must be entered into the CAR database.

If the completion of corrective action will exceed the 45-day timeframe, you make take the minimum additional time necessary, provided that you notify Region 6 of the Environmental Protection Agency:

- of your intent to exceed 45 days,
- · your rationale for an extension, and
- a completion date.

To assist the preparation of this notification, as a responsible individual, you must contact the EPC-CP Project Lead at 667-1312 for any corrective action that remains open 35 days or more, and provide a formal status of the progress for each corrective action. By day 40, the DEP must provide the EPC-CP Project Lead the rationale for potentially exceeding the required 45-day timeframe and a proposed completion date for each associated corrective action. The DEP must also amend the rationale and completion date in the CAR database.

An extension request must be submitted to Region 6 of the U.S. Environmental Protection Agency by EPC-CP personnel prior to day 45 for final corrective actions not completed or estimated to be completed within 45 days of discovery.

The responsible individual must ensure compliance with the proposed completion schedule.

These intervals are not considered grace periods, but are defined schedules to ensure the conditions requiring corrective action do not persist indefinitely.

Where corrective actions result in changes to controls or any procedures documented in the facility's Storm Water Pollution Prevention Plan (SWPPP), the DEP must modify the SWPPP accordingly within 14 calendar days of completing corrective action work.

MSGP Corrective Actions

EPC-CP-QP-022	Page 30 of 31
Revision: 3	Effective Date: 12/20/2018

Attachment 4 - Example Weekly Notification of Outstanding Corrective Action Findings

Page 1 of 1

 $\textbf{From:} \ MSGPC or rective Action DB@esp-esh-as 01.lanl. gov \ [mail to: MSGPC or rective Action DB@esp-esh-as 01.lanl. gov] \ [mail to: MSGPC or rective Action DB@esp-esh-as 01.lanl. gov$

Sent: Monday, January 01, 2018 10:00 PM

To: Cc:

Subject: Weekly Notification of Outstanding NPDES MSGP Corrective Action finding(s)

This email is generated automatically by the National Pollutant Discharge Elimination System (NPDES) Multi-Sector General Permit (MSGP) Corrective Action Report (CAR) database to provide notification of discovery of a new condition requiring corrective action. As the recipient of this notification, you are responsible for immediately taking all reasonable steps necessary to minimize or prevent the discharge of pollutants until a permanent solution is installed and made operational.

"Immediately" requires initial action on the same day a condition is found. However, if a problem is identified at a time in the work day when it is too late to initiate corrective action (after 2 P.M.), the initiation must begin no later than the following work day.

Documentation of newly identified conditions requiring corrective action must occur within 24 hours of discovery, evidenced by entry into the CAR database.

At TA-3-38 Carpenter Shop, 1 total MSGP stormwater corrective action(s) has (have) not been completed.

At TA-3-38 Metals Fab. Shop, 1 total MSGP stormwater corrective action(s) has (have) not been completed.

At TA-60-1 Heavy Equipment Yard, 7 total MSGP stormwater corrective action(s) has (have) not been completed.

At TA-60-2 Warehouse, 4 total MSGP stormwater corrective action(s) has (have) not been completed.

Click HERE to access the list of MSGP corrective action(s) not yet completed for UI.

Click HERE to access the list of all MSGP corrective action(s) not yet completed.

The ESH Deployed Environmental Professional (DEP) assigned to your organization/area is (are) Jane Doe : John Doe.

The color legend on the linked reports corresponds to the following schedule for corrective action completion as required by the 2015 MSGP:

You must complete the corrective action within 14 calendar days of discovery.

If completion of final corrective actions within 14 days is not feasible, the reason(s) must be documented and a description of steps required and formal schedule for completion, which must be done as soon as practicable after the 14-day timeframe, but not longer than 45 days after discovery. The reasons, steps and schedule for completion must be entered into the CAR database.

If the completion of corrective action will exceed the 45-day timeframe, you make take the minimum additional time necessary, provided that you notify Region 6 of the Environmental Protection Agency:

- of your intent to exceed 45 days,
- your rationale for an extension, and
- a completion date.

To assist the preparation of this notification, as a responsible individual, you must contact the EPC-CP Project Lead at 667-1312 for any corrective action that remains open 35 days or more, and provide a formal status of the progress for each corrective action. By day 40, the DEP must provide the EPC-CP Project Lead the rationale for potentially exceeding the required 45-day timeframe and a proposed completion date for each associated corrective action. The DEP must also amend the rationale and completion date in the CAR database.

An extension request must be submitted to Region 6 of the U.S. Environmental Protection Agency by EPC-CP personnel <u>prior to day 45</u> 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-0
WISGF COHECLIVE ACTIONS	

EPC-CP-QP-022	Page 31 of 31		
Revision: 3	Effective Date: 12/20/2018		

Attachment 5 – Example Outstanding Corrective Action Report

Page 1 of 1



EPC-CP MultiSector General Permit (MSGP) Corrective Action Report Findings Final Corrective Actions Not Yet Complete (as of 02/01/2018)

FOD	RAD	MSGP Facility	CA#	Person Identifying Condition	Date Problem Identified	Corrective Action Initiated Date	Days to Take Action	Completion		Days Open (since	EPA Notified of Intent to Exceed 45 Days	Problem Description
UI	DOE JOHN	TA-3-38 Carpenter Shop	1298	DOE JANE	01/31/18		!	02/02/18	1	1		Tarp was totally torn off of the stack of metal posts at the southwest corner of the storage yard.
	DOE JOHN	TA-3-38 Metals Fab. Shop	1299	DOE JANE	01/31/18		·!	02/02/18	1	1		A pile of gravel (from a torn gravel bag) is directly east of the trench drain.
Total	Total Findings:								2			

Legend						
!	Action must be taken and documented in CAR.	3	Indicates immediate action was not taken (i.e., <=2 days of discovery)			
	Within 14 days of discovery		Between 35 and 44 days of discovery			
	Between 15 and 34 days of discovery		45 days of discovery or greater			

MSGP Stormwater Pollution Prevention Plan Revision 1, January 2020

ATTACHMENT 18: EPC-CP-QP-064, MSGP STORMWATER VISUAL ASSESSMENTS

EPC-CP-QP-064	Revision: 1		
Effective Date: 10/09/2018	Next Review Date: 10/09/2021		

Responsible Line Manager:

Taunia S. Van Valkenburg



Environment, Safety, Health Directorate Environmental Protection and Compliance-Compliance Programs Quality Procedure

MSGP Stormwater Visual Assessments

Document Owner: Name: Organization: Signature: Date: Holly L. Wheeler EPC-CP Signature on File 9-11-18 Derivative Classifier: Unclassified or [Organization: Name: Signature: Date: **Jacob Meadows** EPC-CP Signature on File 9-11-18 **Approval Signatures:** Subject Matter Expert: Organization: Signature: Date: Holly L. Wheeler EPC-CP Signature on File 9-11-18 Responsible Line Manager: Organization: Signature: Date: Terrill W. Lemke EPC-CP Team Leader Signature on File 9-12-18

Organization:

EPC-CP Group Leader

This copy is uncontrolled.

10-9-18

Date:

Users are responsible for ensuring they work to the latest approved version. To document a required read, Login to UTrain, and go to the Advanced Search.

Signature:

Signature on File

MSGP	Stormwater	Visual
Assess	ments	

EPC-CP-QP-064	Page 2 of 20
Revision: 1	Effective Date: 10/09/2018

REVISION HISTORY

Document Number and Revision [Include revision number, beginning with Revision 0]	Effective Date [Document Control Coordinator inserts effective date]	Description of Changes [List specific changes made since the previous revision]
ENV-RCRA-QP-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.

MSGP Stormwater Visual Assessments

Page 3 of 20

Revision: 1 Effective Date: 10/09/2018

Table of Contents

Qual	ty Procedure	
	ion History	
	of Contents	
1.0	Introduction	_
	1.1 Purpose	
	1.2 Scope	
	1.3 Applicability	
2.0	Precautions and Limitations	
3.0	Prerequisite Actions	
	3.1 Planning and Coordination	
	3.2 Tools and Equipment	
4.0	Visual Assessment of Stormwater	6
	4.1 Documenting Sample Information	
	4.2 Assessing Parameters	
	4.3 Completing the Assessment Form	
	4.4 Completing the Certification Statement	
5.0	Evidence of Stormwater Pollution	
6.0	Training	
7.0	Records	
8.0	Definitions and Acronyms	
	8.1 Definitions	
	8.2 Acronyms	
9.0	References	
	Attachments	
	Attachment 1 – Screenshot Examples of EPC-CP-Form-1021 in MC Express	
	Attachment 2 – EPC-CP-Form-1021 Hard Copy Example	
	Attachment 3 – Screenshot Examples of Printing from Maintenance Connection.	

MSGP	Stormwater	Visual
Assess	ments	

EPC-CP-QP-064	Page 4 of 20
Revision: 1	Effective Date: 10/09/2018

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 outfall locations where LANL conducts stormwater monitoring activities under the MSGP.

1.2 Scope

Requirements set forth in this document apply to 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, a foundry, a power plant, a material recycling facility and a carpenter shop. 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 must be collected from each discharge point covered by the MSGP and site specific Storm Water Pollution Prevention Plan (SWPPP) and visually inspected for water quality characteristics. Stormwater samples are collected with an automated sampler, single stage sampler, or by taking a grab sample.

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.

Note: A measurable storm event is identified in section 6.1.3 of the MSGP as one "that results in an actual discharge from your site that follows the preceding measurable storm event by at least 72 hours (three days)."

2.0 PRECAUTIONS AND LIMITATIONS

Hazards in the work described in this procedure are controlled through site specific Integrated Work Documents (IWDs). The hazard level for the activities described in this procedure is <u>low</u>. The IWD Part II (2101 Form) will address site-specific requirements and training for Facility Operations Divisions (FODs).

MSGP Stormwater Visual	EPC-CP-
Assessments	Revision

EPC-CP-QP-064	Page 5 of 20
Revision: 1	Effective Date: 10/09/2018

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).

Some terminology varies between the MC Express software and the Maintenance Connection desktop software.

- The "Reading" field in MC Express is the same field as "Reading Final" in Maintenance Connection desktop and "Meas." on a hard copy (printed) work order.
- The "Complete" option in MC Express is the same as a "Yes" answer; the "Failed" option in MC Express is the same as a "No" answer. Maintenance Connection desktop and hard copy (printed) work orders use "Yes" and "No" terminology.

3.0 PREREQUISITE ACTIONS

3.1 Planning and Coordination

- 1. 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.
- 2. Obtain necessary additional paperwork (if required) before conducting this work, including IWD's, and excavation permits.
- 3. As specified in the IWD, inform (e.g., by e-mail) facility contacts and/or DEP (Deployed Environmental Professional) 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.

Note: For some FODs (e.g., Utilities and Institutional Facilities), MSGP stormwater monitoring activities are on a standing plan of the day. However, this must be requested each year at the beginning of the monitoring season.

- 4. The IWD Part II (2101 Form) addresses specific requirements and training for FODs.
- 5. Gather the required equipment (see Section 3.2) 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 using your login credentials. Confirm that the work order list displayed in the "My Open Work Orders" section matches your sites. If work orders are not displayed, click the "Refresh" bar at the bottom of the page. The page will refresh and any work orders issued since you logged in will be loaded to the application. If the work order lists still do not match, contact the MSGP Data Management Team for clarification.

MSGP Stormwater Visual	EPC-CP-QP-064	Page 6 of 20
Assessments	Revision: 1	Effective Date: 10/09/2018

8. 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 at all times, with no daylight saving time adjustment.

3.2 Tools and Equipment

Ensure the following equipment is available in the field vehicle:

- Safety glasses with side shields
- Nitrile gloves
- Sturdy hiking boots or steel toed shoes with soles that grip and other facility specific Personal Protective Equipment
- 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)
- Current copy of the MSGP Sampling and Analysis Plan
- Site Map(s) (as needed)
- Current electronic work order or paper inspection form
- Government issued electronic tablet with Safari web browser and Blackberry UEMTM 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
- Certified clean replacement sample bottles (clear glass or clear poly)
- Paper Towels

4.0 VISUAL ASSESSMENT OF STORMWATER

1. Take the sample bottle with water out of automated sampler or single stage jar off the ground, or fill a clear sample bottle with a grab sample and wipe off exterior.

Note: If a grab sample is collected, it will be collected during daylight hours in a wide mouth clear glass or plastic container within 30 minutes of discharge from a storm event.

- 2. 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.
- 3. Click on the "Tasks" bar to navigate to the work order Tasks page. See MC Express screen shot examples in Attachment 1 and a hard copy example in Attachment 2.

MSGP Stormwater Visual	EPC-CP-QP-064	Page 7 of 20
Assessments	Revision: 1	Effective Date: 10/09/2018

- 4. Any additional comments not documented in the "Reading" field will be entered in the "Comments" field of the same task line. If the inspector needs more space, additional comments will be entered in the "Labor Report Update" field (see Section 4.3) when the work order is updated to "Complete" status.
- 5. Click the "Save" bar after all entries for a task line have been completed and before proceeding to the next question. Failure to "Save" results in lost data entries.

4.1 Documenting Sample Information

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).

 Item 1: Document the monitoring period by clicking the expand arrow located on the right side of the task line and changing the "Complete" or "Failed" line to "Yes". Describe the monitoring period (e.g., Apr-May, Jun-Jul, Aug-Sep, and Oct-Nov).

Note: If the discharge collected is from a rain event from the previous monitoring period but the visual assessment is made in the following monitoring period, document monitoring period on the inspection to correspond to the period in which the rain event took place.

Item 2: Check the date and time stormwater discharge began and document by clicking the
expand arrow located on the right side of the task line and changing the "Complete" or
"Failed" line to "Yes".

Enter the date and time in the following date formats: MM/DD/YY, or MM-DD-YY. Time must be entered in 24-hr format.

Note: If the discharge date/time is not available (e.g., precipitation report) when the visual is performed in the field, leave this Task Line incomplete and complete when the information is available.

3. Item 3: Check the date and time the sample was collected and document by clicking the expand arrow located on the right side of the task line and changing the "Complete" or "Failed" line to "Yes".

Enter the date and time in the following date formats: MM/DD/YY, or MM-DD-YY. Time must be entered in 24-hr format.

Note: If the collection date/time is not available (e.g., precipitation report) when the visual is performed in the field, leave this Task Line incomplete and complete when the information is available.

4. Item 4: Check the date and time stormwater was visually assessed and document by clicking on the right side of the task line and changing the "Complete" or "Failed" line to "Yes".

Enter the date and time in the following date formats: MM/DD/YY, or MM-DD-YY. Time must be entered in 24-hr. format.

MSGP Stormwater Visual	EPC-CP-QP-064	Page 8 of 20
Assessments	Revision: 1	Effective Date: 10/09/2018

5. Item 5: Observe the nature of the discharge and document by clicking the expand arrow located on the right side of the task line and changing the "Complete" or "Failed" line to "Yes". Describe the discharge (e.g., rainfall or snowmelt) and the TOTAL amount of precipitation from the event.

Note: If the total amount of precipitation is not available (e.g., precipitation report) when the visual is performed in the field, leave this Task Line incomplete and complete when the information is available.

6. Item 6: Check the sample was collected in the first 30 minutes of discharge and document by clicking the expand arrow located on the right side of the task line and changing the "Complete" or "Failed" line to "Yes". If it is not possible to collect the sample within the first 30 minutes of discharge, the sample must be collected as soon as practicable after the first 30 minutes. The field inspector will document the reason a sample could not be collected within the first 30 minutes.

4.2 Assessing Parameters

While conducting the visual examinations, personnel will constantly be attempting to relate any pollutant that is observed in the sample to a pollutant source on the site.

If there are any potential sources of pollutants on site, document the following, and contact the EPC-CP MSGP Project Lead within 24 hrs. of identification.

- Potential sources;
- Indicate if there are any Best Management Practices (BMPs) on site and evaluate and note effectiveness; and
- If no BMPs, determine if installation could correct future pollutant migration.
- 7. Item 7: Observe the color of the discharge in the sample container and document by clicking the expand arrow located on the right side of the task line and changing the "Complete" or "Failed" line to "Yes". Describe the color.
- 8. Item 8: Observe any odors detected from sample and document by clicking the expand arrow located on the right side of the task line and changing the "Complete" or "Failed" line to "Yes". Describe the odor (e.g., musty, sewage, sulfur, sour, solvents, petroleum/gas, etc.).
- 9. Item 9: Observe the clarity of the discharge and document by clicking the expand arrow located on the right side of the task line and changing the "Complete" or "Failed" line to "Yes". Describe the clarity (e.g., slightly cloudy, cloudy, opaque).

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.

MSGP	Stormwater Visual
Assess	ments

EPC-CP-QP-064	Page 9 of 20
Revision: 1	Effective Date: 10/09/2018

- 10. Item 10: Observe any floating solids and document by clicking the expand arrow located on the right side of the task line and changing the "Complete" or "Failed" line to "Yes". 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). Describe any floating solids observed.
- 11. Item 11: Observe any settled solids in the sample and document by clicking the expand arrow located on the right side of the task line and changing the "Complete" or "Failed" line to "Yes". Describe any settled solids observed (e.g., fine, course).
 - Settled solids may be an indicator of unstable ground cover combined with a high intensity stormwater runoff event.
- 12. Item 12: Observe any suspended solids in the sample and document by clicking the expand arrow located on the right side of the task line and changing the "Complete" or "Failed" line to "Yes". Describe any suspended solids observed (e.g., fine, course).
 - Most often suspended solids include fine sediment. This may be an indication of an unstable channel with eroding banks. Some water appears to be colored because of relatively coarse particulate material in suspension such as sediment.
- 13. Item 13: Check the sample is free of foam and document by clicking the expand arrow located on the right side of the task line and changing the "Complete" or "Failed" line to "Yes". Gently shake the sample container. Describe any bubbles in or on the surface of the water and the color of the foam.
 - If it is determined that foam is caused by a pollutant, complete the visual assessment and contact the EPC-CP MSGP Project Leader <u>immediately</u> following completion of the <u>assessment</u>. Follow-up action is required within 24 hours.
- 14. Item 14: Check the sample is devoid of any oil sheen and document by clicking the expand arrow located on the right side of the task line and changing the "Complete" or "Failed" line to "Yes". If an oil sheen is present, describe the thickness and consistency (e.g., flecks, globs).
 - If an oil sheen is present, contact the EPC-CP MSGP Project Leader <u>immediately</u> following <u>completion of the visual assessment</u>. Determine the nature of the discharge (rain, snow, hail), the source of the oil sheen and if existing BMPs are effective in mitigation of potential pollutants or if a new BMP needs to be installed. Follow-up action is required within 24 hours.
- 15. Item 15: Check the discharge is free of any other indicators of stormwater pollution not described in any other task line above and document by clicking the expand arrow located on the right side of the task line and changing the "Complete" or "Failed" line to "Yes". Describe any observations.
- 16. When all task lines have been completed, click the "Back" button in the upper left hand corner to exit the work order Tasks page and return to the work order Summary page.

MSGP Stormwater Visual	EPC-CP-QP-064	Page 10 of 20
Assessments	Revision: 1	Effective Date: 10/09/2018

4.3 Completing the 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 checkered flag in the upper right corner of the work order Summary page.

 The work order will open in the display to the Status Update page.

MC Express automatically changes the work order status to "Closed" and auto populates the date/time fields.

- 3. 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. Ensure the date and time autopopulated are the date and time the work was completed and not the date/time the form was filled out. If work needs to be performed over multiple days, enter the date and time the work began in the Labor Report field. To update the date or time, click the "Date" field and make necessary adjustments using the available timestamp application. Click "Set" to apply changes.
- 4. Item 17: The inspector enters/prints his/her name in the "Labor Report Update" field.

Any additional notes, observations, or site conditions not documented in a task line "Reading" or "Comments" field will be documented in the "Labor Report Update" field.

- 5. 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.
- 6. 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: If using MC Express on a desktop screen (not a tablet), the mouse must be used to sign electronically.

- 7. Click on the "Save" bar at the bottom of the page to close the "Signature" field.
- 8. Click on the "Back" button in the upper left hand corner to return to the "My Open Work Orders" page.
- 9. Once you have completed an inspection, click on the Menu button again, and then click the "Logout" bar. Close the browser. All work will automatically upload from the MC Express application to the MC database.

Always log out of MC Express when you have finished work OR if work is interupted.

4.4 Completing the Certification Statement

1. Using the Safari web browser on a desktop computer, navigate to http://www.maintenanceconnection.com. Log into the MainConn desktop application using your login credentials.

MSGP	Stormwater	Visual
Assess	ments	

EPC-CP-QP-064	Page 11 of 20
Revision: 1	Effective Date: 10/09/2018

- 2. Click "Open" in the tool bar at the top of the page to open the MainConn module selections. Click on the "Work Orders" module. See Attachment 3 for screenshot examples of printing from MainConn.
- 3. Click on the "Search" tab at the top left of the page and enter the work order number in the "Search Value" field. 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" subtab.
- 5. Click the Tools drop down menu in the top right corner of the page and select "Print" from the options. The print dialog box will open. Select the print options as appropriate for your local printer.
- 6. Item 19: Obtain a printed name and title, signature, and date on the certification statement (see Attachment 2). The visual assessment 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; Deployed Environmental, Safety, and Health Group Leader; EPC Group Leader, EPC-CP Team Leader). The manager is certifying the information submitted is "true, accurate, and complete" by signing the form.
 - EPC-CP will send out completed visual assessment forms at the end of each quarter that will contain a certification statement in the cover memorandum. The duly authorized signatory may sign and date this certification statement rather than the certification line associated with each attached form. However, the memorandum and associated completed forms must remain together.
- 7. Place the completed and signed visual assessment into the facility SWPPP.

5.0 EVIDENCE OF STORMWATER POLLUTION

If stormwater contamination is identified through visual assessment personnel will attempt to identify the pollutant source. Personnel will evaluate whether or not BMPs have already been implemented and evaluate whether or not these are working correctly or need maintenance. A design change could also be incorporated into the stormwater pollution prevention plan to eliminate or minimize the contaminant source from occurring in the future. Personnel will evaluate whether or not implementation of additional BMPs are needed in the pollution prevention plan to address the observed contaminant.

A cleanup of the site should be conducted if the pollutant source is known and well defined. The FOD, DEP, and MSGP representative of EPC-CP should also be contacted and made aware of the situation.

Refer to EPC-CP-QP-022, MSGP Corrective Actions.

6.0 TRAINING

The following personnel require training before implementing this procedure:

MSGP Stormwater Visual	EPC-CP-QP-064	Page 12 of 20
Assessments	Revision: 1	Effective Date: 10/09/2018

EPC-CP technical staff and subcontract or other personnel who retrieve stormwater samples
and conduct visual assessments at automated samplers, single stage stormwater samplers,
or by grab sample for the MSGP.

For EPC-CP staff, the training method for this procedure is "self-study" (reading). Other participating groups may require training documentation pursuant to local procedures.

Personnel performing this procedure will be familiar with the most current versions of the following procedures and operation manuals:

• EPC-CP MSGP Sampling and Analysis Plan for the current monitoring year

7.0 RECORDS

Records generated by this document and signed by the EPC-CP certifier will be submitted to the EPC-CP Records Management designated point of contact or document manager in accordance with P1020-1, Laboratory Records Management and with ADESH-AP-006, Records Management Plan.

• EPC-CP-Form-1021, MSGP Quarterly Visual Assessment

8.0 DEFINITIONS AND ACRONYMS

See LANL Definition of Terms.

8.1 Definitions

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.

Best Management Practices (BMPs) – Schedules of activities, practices, prohibitions of practices, structures, vegetation, maintenance procedures, and other management practices to prevent or reduce pollution. BMPs also include treatment requirements, operating procedures, and practices to control facility site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage.

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.

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 your site that follows the preceding measurable storm event by at least 72 hours (3 days).

MSGP Stormwater Visual	EPC-CP-QP-064	Page 13 of 20
Assessments	Revision: 1	Effective Date: 10/09/2018

Odor – The property or quality of waters that affects or stimulates the sense of smell. Examples of odors that may be present are burnt oil, petroleum hydrocarbon, sewage, diesel, sulfuric, or detergent odors.

Oil sheen – The presence of rainbow-like colors glistening on the surface of a liquid. The color of oil sheen will vary dependent on thickness and consistency.

Settled solids – Settled particulate material i.e., heavier than water. Examples include sand, gravel, metal turnings, and glass.

Suspended solids – Particulate materials that are floating between the bottom of the sample and the surface of the water.

Unstaffed and Inactive Sites – A facility maintaining certification with the SWPPP that it is inactive and unstaffed and visual examinations are not required.

8.2 Acronyms

See LANL Acronym Master List.

ВМР	Best Management Practice
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 Express	Maintenance Connection MC Express web application
MSGP	Multi-Sector General Permit
NPDES	National Pollutant Discharge Elimination System
SWPPP	Storm Water 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: September 29, 2008, Volume 73, Number 189

P1020-1, Laboratory Records Management

ADESH-AP-006, Records Management Plan

EPC-CP-QP-022, MSGP Corrective Actions

10.0 ATTACHMENTS

Attachment 1: Screenshot Examples of EPC-CP-Form-1021 in MC Express

Attachment 2: EPC-CP-Form-1021 Hard Copy Example

Attachment 3: Screenshot Examples of Printing from Maintenance Connection

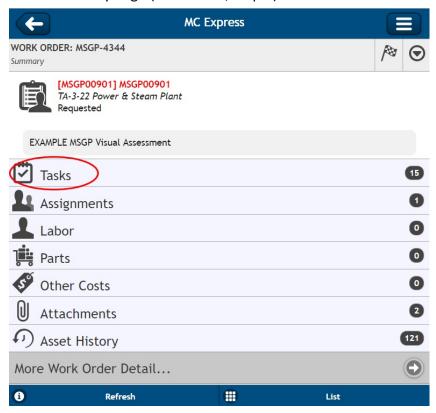
MSGP	Stormwater	Visual
Assess	ments	

EPC-CP-QP-064	Page 14 of 20
Revision: 1	Effective Date: 10/09/2018

Attachment 1 – Screenshot Examples of EPC-CP-Form-1021 in MC Express

Page 1 of 4

Work Order Summary Page (section 4.0, step 2)



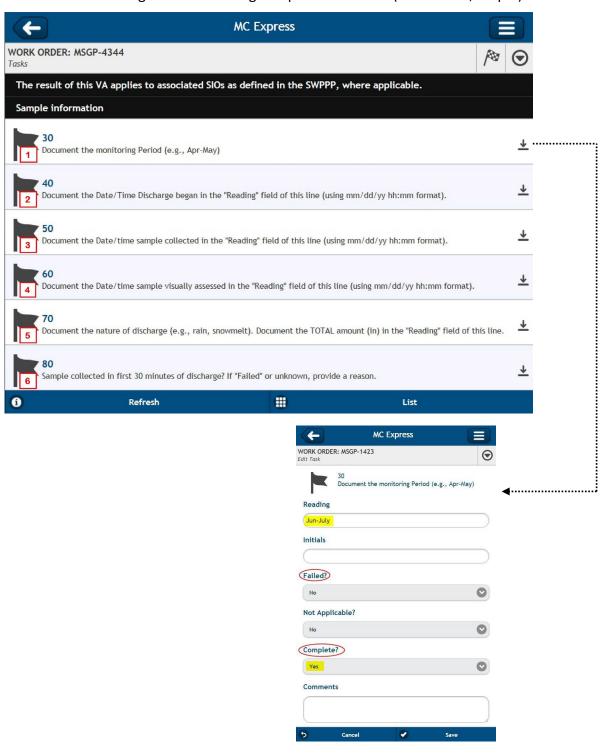
MSGP	Stormwater	Visual
Assess	ments	

EPC-CP-QP-064	Page 15 of 20
Revision: 1	Effective Date: 10/09/2018

Attachment 1 - Screenshot Examples of EPC-CP-Form-1021 in MC Express

Page 2 of 4

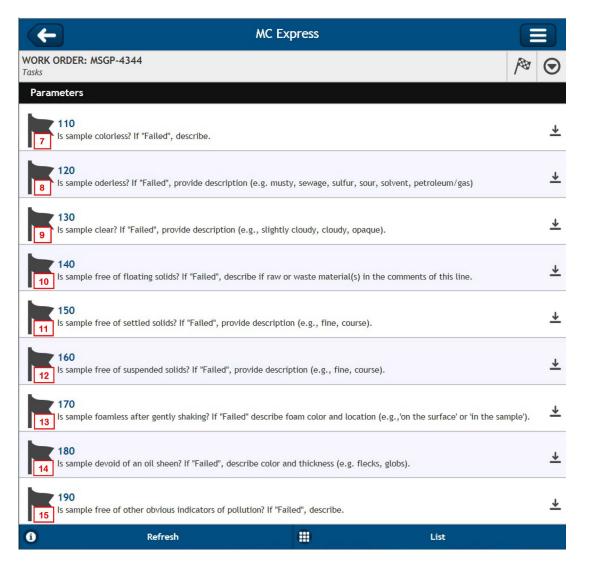
Work Order Tasks Page – Documenting Sample Information (Section 4.0, Step 3)



MSGP Stormwater Visual	EPC-CP-QP-064	Page 16 of 20
Assessments	Revision: 1	Effective Date: 10/09/2018

Attachment 1 – Screenshot Examples of EPC-CP-Form-1021 in MC Express (cont.) Page 3 of 4

Work Order Tasks Page – Assessing Parameters (section 4.2, step 7)

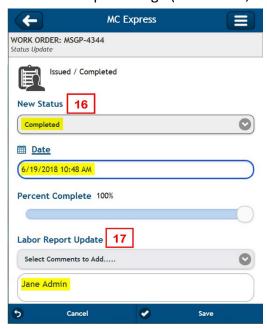


MSGP	Stormwater	Visual
Assess	ments	

EPC-CP-QP-064	Page 17 of 20
Revision: 1	Effective Date: 10/09/2018

Page 4 of 4

Work Order Status Update Page (section 4.3, steps 3 and 4)



Work Order Status Update Page (section 4.3, step 6)



MSGP Stormwater Visual Assessments

EPC-CP-QP-064	Page 18 of 20
Revision: 1	Effective Date: 10/09/2018

Attachment 2 – EPC-CP-Form-1021 Hard Copy Example

Page 1 of 2

Los Alamos National Lab - ADESH

Work Order MSGP-4344

MSGP Monitoring Stations Printed 6/19/2018 - 10:55 AM (Duplicate Copy)

/lainte	nance Details						
Reques Proced Last Pl	Assessment (EPC-CP- Form-1021.2)	Target: 12/31/2018 Priority/Type: / Inspection Department: Utilities and Infrastructure	MSGP Pro 品 RG121.9 和 TA-3-22 Po 和 Monitored MSGP009	ower & St Outfall (0		Plant	
Lastii	5/6/2010		G 4 4 - A -1				
Reaso	n: EXAMPLE MSGP Visual Assess	ment	Contact: Adm Phone: 123-				
Specia	I Instructions: NMR053195						
Tasks							
#	Description		Me	eas. N	OV	N/A	Yes
The re	esult of this VA applies to associat	ed SIOs as defined in the SWPPP, where	applicable.				
Sampl	le information						
30	Document the monitoring Period	(e.g., Apr-May)					
40		ge began in the "Reading" field of this line (ι	using		_	_	_
40	mm/dd/yy hh:mm format). Document the Date/time sample of	collected in the "Reading" field of this line (us	sing				
50	mm/dd/yy hh:mm format).	Someoted in the Treading held of this line (di	ang	1			
		risually assessed in the "Reading" field of th	is line				
60	(using mm/dd/yy hh:mm format).	2 (a.g. rain anawmalt) Dagumant the TOTA	V. amount				
70	(in) in the "Reading" field of this li	e (e.g., rain, snowmelt). Document the TOTA ne.	NE AIHOUIT	1			
	Sample collected in first 30 minut	es of discharge? If "Failed" or unknown, prov	vide a				
80	reason.						
Param							
110	Is sample colorless? If "Failed", d					-4	
120	solvent, petroleum/gas)	rovide description (e.g. musty, sewage, sulfu	ır, sour,	1			П
130		de description (e.g., slightly cloudy, cloudy, o	paque).				
500000000		f "Failed", describe if raw or waste material(s) in the				
140	comments of this line.		erecci v.		<u> </u>		므
150 160		"Failed", provide description (e.g., fine, cou ls? If "Failed", provide description (e.g., fine,					-
100		naking? If "Failed" describe foam color and l					_1.1
170	(e.g., on the surface' or 'in the sar						
400		If "Failed", describe color and thickness (e.	g. flecks,		_	_	_
180 190	globs).	dicators of pollution? If "Failed", describe.					무
100	13 Sample nee of other obvious III	areators or politition: if I alled , describe.					1.0
_abor	Report						
	materials of ■ a contraction						
Comp	leted: 6/19/2018 10:48:00 AM						
Repor	t: Jane Admin						
• • • • • • • • • • • • • • • • • • • •							
	1 1 -						
	runo ROVINI-	6/19/2018					

MSGP Stormwater Visual Assessments

EPC-CP-QP-064	Page 19 of 20
Revision: 1	Effective Date: 10/09/2018

Attachment 2 - EPC-CP-Form-1021 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, DESH Group Leader, EPC Group Leader)

Print name and title:	
Signature:	Date:

EPC-CP-Form-1021.2 09/2018

MSGP	Stormwater	Visual
Assess	ments	

EPC-CP-QP-064	Page 20 of 20
Revision: 1	Effective Date: 10/09/2018

Attachment 3 – Screenshot Examples of Printing from Maintenance Connection

Page 1 of 1

Maintenance Connection Modules Page (Section 4.4)



MSGP Stormwater Pollution Prevention Plan Revision 1, January 2020

ATTACHMENT 19: EPC-CP-QP-047, INSPECTING STORMWATER RUNOFF SAMPLERS AND RETRIEVING SAMPLES FOR THE MSGP

EPC-CP-QP-047	Revision: 2	Alamas
Effective Date: 09/06/2017	Next Review Date: 09/06/2020	Los Alamos NATIONAL LABORATORY EST. 1943

Environment, Safety, and Health Directorate

Environmental Protection and Compliance Division – Compliance Programs

Quality Procedure

Inspecting Stormwater Runoff Samplers and Retrieving Samples for the MSGP

Document Owner/Subject Matter Expert:

Name:	Organization:	Signature:	Date:	
Holly L. Wheeler	EPC-CP	Signature on File	9-5-17	
Deri	vative Classifier: Unc	lassified or 🔀 DUSA <u>ENVPRO</u>		
Name:	Organization:	Signature:	Date:	
Ellena I. Martinez	EPC-CP	Signature on File	8-22-17	
			_	
	Approval S	ignatures:		
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Holly L. Wheeler	EPC-CP	Signature on File	9-5-17	
Responsible Line Manager:	Organization:	Signature:	Date:	
Terrill W. Lemke	EPC-CP Team Leader	Signature on File	9-5-17	
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	EPC-CP Group Leader	Signature on File	9-6-17	

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Inspecting Storm Water Runoff
Samplers & Retrieving Samples
for the MSGP

EPC-CP-QP-047	Page 2 of 26
Revision: 2	Effective Date: 09/06/2017

REVISION HISTORY

Document Number and Revision [Include revision number, beginning with Revision 0]	Effective Date [Document Control Coordinator inserts effective date]	Description of Changes [List specific changes made since the previous revision]
ENV-RCRA-QP-047, Rev. 0	03/11	New Document.
ENV-RCRA-QP-047, Rev. 1	02/13	Annual Review and Revision
EPC-CP-QP-047, Rev. 2	09/06//2017	Review and revision. Updated document to new template and new group name. Clarified steps, modified inspection form EPC-CP-Form-1010, and added crosswalk to electronic form in MC Express. This document replaces ENV-RCRA-QP-047 R1.

Inspecting Storm Water Runoff Samplers & Retrieving Samples for the MSGP

EPC-CP-QP-047	Page 3 of 26
Revision: 2	Effective Date: 09/06/2017

Table of Contents

Oual	itv Pr	ocedur	e	1
	•			
		•	5	
1.0	Introduction			
	1.1		se	
	•			
	·		ability	
2.0	_		and Limitations	
3.0	Prerequisite Actions			
3.0	3.1	·		
	3.2		and Equipment	
4.0	Inspecting Stormwater samplers and retrieving samples			
	4.1	_	ting the Sampler	
		4.1.1	On Arrival	7
		4.1.2	Water Collection Information	8
		4.1.3	Water Retrieval Information	9
		4.1.4	On Departure	9
		4.1.5	Equipment Specific Tasks	10
		4.1.6	Maintenance Information	11
		4.1.7	Bottle Information	12
	4.2	Retrie	ving Samples	12
	4.3	Compl	eting the Inspection Form	13
4.4	Rem	oving S	tormwater Samples from the field	14
5.0	Traiı	ning		14
6.0	Reco	ords		15
7.0	Definitions and Acronyms			
	7.1 Definitions			15
	7.2	Acron	yms	15
8.0	Refe	erences		15
9.0	Attachments			
	Attachment 1: Screenshot Examples of EPC-CP-Form-1010.02 in MC Express			
	Attachment 2: Crosswalk of EPC-CP-Form-1010.02 Hard Copy Format to Electronic Format 24			
	Atta	chment	· 3: Flow Chart for Sample Retrieval	26

Inspecting Storm Water Runoff
Samplers & Retrieving Samples
for the MSGP

EPC-CP-QP-047	Page 4 of 26
Revision: 2	Effective Date: 09/06/2017

1.0 INTRODUCTION

Los Alamos National Security, LLC (LANS) 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 Los Alamos National Laboratory (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 stormwater samplers and retrieving stormwater runoff samples from monitored outfall locations where LANS conducts stormwater monitoring activities pursuant to the NPDES, MSGP at LANL.

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.)

1.2 Scope

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.

The MSGP Program Lead is the primary person with responsibility for the steps in this procedure. EPC-CP personnel will be appointed with responsibility for a subset of sampling stations.

1.3 Applicability

Stormwater runoff samples are collected at MSGP Program stations either with a refrigerated Avalanche® or ISCO 3700 automated sampler, single stage sampler or grab sample. ISCOs are designed to automatically collect water when the water surface is high enough to trigger a liquid level actuator and fill the sample bottles. 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 program personnel.

2.0 PRECAUTIONS AND LIMITATIONS

Hazards in the work described in this procedure are controlled thorough site specific Integrated Work Documents (IWDs). The hazard level of the activities in this procedure is **moderate**.

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.

Inspections 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

Inspecting Storm Water Runoff
Samplers & Retrieving Samples
for the MSGP

EPO	C-CP-QP-047	Page 5 of 26
Rev	vision: 2	Effective Date: XX/XX/2017

floods, flooding, lightning, wildfires, hail, icy roads, deep snow, or LANL operations such as firing shots or burns).

Some terminology varies between the MC Express software and the Maintenance Connection desktop software.

- The "Reading" field in MC Express is the same field as "Reading Final" in Maintenance Connection desktop and "Meas." on a hard copy (printed) work order.
- The "Complete" option in MC Express is the same as a "Yes" answer; the "Failed" option in MC Express is the same as a "No" answer. Maintenance Connection desktop and hard copy (printed) work orders use "Yes" and "No" terminology.

3.0 PREREQUISITE ACTIONS

3.1 Planning and Coordination

- 1. 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.
- 2. Inform (e.g., by e-mail) Facility contacts, as specified in the IWD, of the schedule for sampler 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.

Note: For some Facility Operations Divisions (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.

- 3. The IWD Part II (2101 Form) addresses specific requirements and training for FODs.
- 4. Obtain any necessary additional paperwork before conducting this work, including IWD's, and excavation permits (as necessary).
- 5. Gather the required equipment (see section below) for the work to be done.
- 6. Using the Safari 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 using your login credentials.
- 8. Confirm that the work order list displayed in the "My Open Work Orders" section matches your sites (see example in Attachment 1). If work orders are not displayed, click the "Refresh" bar at the bottom of the page. The page will refresh and any work orders issued since you logged in will be loaded to the application. If the work order lists still do not match, contact the MSGP Data Management Team for clarification.
- 9. 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 at all times, with no daylight saving time adjustment.

Inspecting Storm Water Runoff
Samplers & Retrieving Samples
for the MSGP

EPC-CP-QP-047	Page 6 of 26
Revision: 2	Effective Date: XX/XX/2017

3.2 Tools and Equipment

Ensure the following equipment is available in the field vehicle:

- Safety glasses with side shields
- Sturdy hiking boots or steel toed shoes with soles that grip
- Nitrile gloves
- Cell phone (only government cell phones with batteries removed are allowed in secure areas)
- Copy of this procedure
- Copy of the Integrated Work Documents (IWDs)
- Copy of the MSGP Sampling and Analysis Plan
- Site Map(s) (as needed)
- Current electronic or paper inspection form EPC-CP-Form-1010, MSGP ISCO Sampler Inspection and Sample Retrieval
- Sample Collection Log/Field Chain of Custody (see EPC-CP-QP-048)
- Government issued iPad equipment with Safari web browser and Good™ app.
- Necessary access and station keys
- Charged spare battery(s)
- Battery voltage tester
- Clean spare tubing (pump, suction, discharge types, sampler specific)
- Certified clean replacement sample bottles (glass and poly)
- Spare/replacement sampler parts (liquid level actuator, distributor arm)
- Shovel
- Wooden stakes
- Plastic wire "zip" ties
- Coolers with ice or Blue Ice®
- Paper Towels
- Marker pen (permanent, waterproof)
- Ball point pen
- Zip lock bags
- Chain of custody seals

Inspecting Storm Water Runoff
Samplers & Retrieving Samples
for the MSGP

EPC-CP-QP-047	Page 7 of 26
Revision: 2	Effective Date: XX/XX/2017

0.45 micron filter (where applicable)

4.0 INSPECTING STORMWATER SAMPLERS AND RETRIEVING SAMPLES

Throughout this procedure the field inspector should document comments and notations in the "Reading" field of the associated task line. Any additional comments not documented in a "Reading" field can be entered in in the "Comments" field of the same task line. If the inspector needs 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.

4.1 Inspecting the Sampler

- 1. If conditions prevent a sampler inspection, document the conditions in the "Labor Report Update" field on the work order and notify the Program Lead or designee within 24 hours. Multiple attempts can be documented on the original inspection work order. If the target date cannot be met, the inspector must contact the MSGP Program Lead no less than 24 hours before target date for guidance.
- In MC Express open the work order issued for the current location by clicking on the
 appropriate line. If needed, use the expand arrow located on the right side of the display to
 expand the work order detail information. The work order will open in the display to the
 work order Summary page.
- 3. Click on the "Tasks" bar to navigate to the work order Tasks page.
- 4. Remove the top cover from the sampler.

4.1.1 On Arrival

5. Item 1: Verify and document the sampler is ON and its condition upon arrival by clicking the expand arrow located on the right side of the task line and changing the "Complete" or "Failed" line to "Yes" (see example in Attachment 1). Explain any non-functional status (remember to use the "Reading" field unless more space is needed for comments). A hard copy inspection example is provided in Attachment 2 as a crosswalk to the electronic format.

If a sampler has been inactivated (e.g., sample collection completed) prior to this inspection but continues to appear on the inspection form, change the "N/A" line to "Yes". Subsequent questions regarding this sampler may be left unanswered in this section.

CAUTION

Click the "Save" bar after all entries for a task line have been completed and before proceeding to the next question. Failure to "Save" results in lost data entries.

6. Item 2: Verify and document the ISCO programming displays the following by clicking the expand arrow located on the right side of the task line and changing the "Complete" or "Failed" line to "Yes".

Inspecting Storm Water Runoff
Samplers & Retrieving Samples
for the MSGP

EPC-CP-QP-047	Page 8 of 26
Revision: 2	Effective Date: XX/XX/2017

ISCO 3700 sampler display should indicate "Sampler Inhibited"

OR

Avalanche sampler display should indicate "Program Disabled"

If the display does not indicate these messages, describe the messages (e.g., "Done X samples", "sampler off", etc.). If there is no indication of flow and the sampler triggered due to a non-flow event (e.g., animal, tumbleweed, etc.), describe this. Document any messages from the ISCO display.

- 7. Item 3: Verify and document the sampler is set to the correct Mountain Standard Time +/no more than 1 minute by clicking the expand arrow located on the right side of the task line
 and changing the "Complete" or "Failed" line to "Yes". If the sampler is set incorrectly,
 reprogram for the correct Mountain Standard Time. Describe the work performed and
 correction applied (e.g., "ISCO clock was X minutes slow").
- 8. If the location has more than one sampler complete Steps 5 through 7 for each sampler.
- 9. Don nitrile gloves and safety glasses.
- 10. Remove the center section from the sampler.

4.1.2 Water Collection Information

- 11. Item 4: Document any evidence of storm water flow at the sampling location by clicking the expand arrow located on the right side of the task line and changing the "Complete" or "Failed" line to "Yes". Describe the evidence of flow (e.g. sediment or vegetation movement, erosion, standing water).
 - If the sampler did not trip but there is evidence of flow, document the date and time storm water discharge began from the precipitation report.
 - If the sampler tripped or collected storm water, document the date/time stamp from the sampler if available or from the precipitation report.
- 12. Item 5: Document if any storm water was collected (from either a sampler or by grab sample) by clicking the expand arrow located on the right side of the task line and changing the "Complete" or "Failed" line to "Yes". If any water was collected, complete the Bottle Information section (Item 20). Document if the water is taken by grab sample. Follow the steps in Section 4.2 of this procedure to retrieve samples.
- 13. Item 6: For Avalanche samplers only, verify and document the current refrigerator temperature of the sampler if water was collected by clicking the expand arrow located on the right side of the task line and changing the "Complete" or "Failed" line to "Yes". Record the temperature. If unable to review temperature, check "No" and describe the condition (e.g. dead battery, electrical short).

If no water was collected the field inspector may change the "N/A" line to "Yes".

Inspecting Storm Water Runoff
Samplers & Retrieving Samples
for the MSGP

EPC-CP-QP-047	Page 9 of 26
Revision: 2	Effective Date: XX/XX/2017

14. Item 7: For Avalanche samplers equipped with an ISCO pH and Temp Module, verify and document a pH measurement was taken on the collected water by clicking the expand arrow located on the right side of the task line and changing the "Complete" or "Failed" line to "Yes". Record the pH measurement taken at the time of Bottle 1 as "Average: Minimum:Maximum." If unable to review pH, check "No" and describe the condition (e.g. damaged meter).

If no water was collected the field inspector may change the "N/A" line to "Yes".

4.1.3 Water Retrieval Information

- 15. Item 8: Verify and document whether a sample volume was retrieved (from either a sampler or by grab sample) and taken off site by clicking the expand arrow located on the right side of the task line and changing the "Complete" or "Failed" line to "Yes". If sample volume was retrieved, record the total volume taken off site.
- 16. Item 9: Verify and document whether a visual assessment of the water was performed by clicking the expand arrow located on the right side of the task line and changing the "Complete" or "Failed" line to "Yes". The MSGP program visual assessment form is not included in this procedure (see EPC-CP-QP-064). Ensure this form is submitted with the sampler inspection form. If the sample was filtered, conduct the visual assessment and document "Filtered sample."

4.1.4 On Departure

- 17. Item 10: Verify all cable and electrical connections are attached and firmly tightened (not loose) upon departure from the site by clicking the expand arrow located on the right side of the task line and changing the "Complete" or "Failed" line to "Yes".
 - Connections may work loose over time due to temperature changes and if there are dissimilar metals at the connection points. The loose connections can introduce voltage spikes which inherently cause current spikes that may result in blown fuses.
 - If the cables require replacement, connections require tightening, or other maintenance performed, describe the work performed (e.g., "tightened connectors on battery).
 - If maintenance cannot be completed at the time of inspection, then describe the condition (e.g. cables chewed through by animal) and follow-up work needed (e.g., replace cables).
- 18. Item 11: Verify and document power supply function. Use a voltage meter to check the voltage of the battery(s) and record the voltage(s). Change the "Complete" or "Failed" line to "Yes" to indicate if battery voltage is acceptable upon departure from the station (≥11.7 for non-floating charged batteries at ISCO 3700 samplers and ≥11.0 for floating-charged batteries at Avalanche samplers).
 - Check the voltage of the solar panel if access can be gained to the weather protected terminal covers on the back of the panel.

Inspecting Storm Water Runoff	
Samplers & Retrieving Samples	
for the MSGP	

EPC-CP-QP-047	Page 10 of 26
Revision: 2	Effective Date: XX/XX/2017

4.1.5 Equipment Specific Tasks

19. Item 12: Verify and document the sampler passes the diagnostic test by clicking the expand arrow located on the right side of the task line and changing the "Complete" or "Failed" line to "Yes". Directions for running the diagnostics test is provided in ENV-CP-QP-045.

If a sampler has been inactivated (e.g., sample collection completed) prior to this inspection but continues to appear on the inspection form, change the "N/A" line to "Yes" on this task line. Subsequent questions regarding this sampler may be left unanswered in this section.

Warning

The internal pump tubing must be replaced if the pump tubing life has reached or exceeded the preset pump counts. The internal pump tubing life is set 500,000 pump counts for the 3700 and 1,000,000 for the Avalanche.

Only reset the pump counts after replacing the internal tubing.

If maintenance is necessary and can be performed at the time of inspection, describe the work performed. If maintenance cannot be completed at the time of inspection, then describe the condition and follow up with a description of work needed.

If a sampler has been inactivated (e.g., sample collection completed) prior to this inspection but continues to appear on the inspection form, change the "N/A" line to "Yes" on this task line. Subsequent questions regarding this sampler may be left unanswered in this section.

20. Item 13: Verify and document the sample tubing is free or clear of debris by clicking the expand arrow located on the right side of the task line and changing the "Complete" or "Failed" line to "Yes".

Check the physical condition of the sampler including the actuator and intake line for correct location and height in the channel. The actuator, intake line and strainer (if used) should be placed on the cutting side of the channel to help minimize the possibility of sediment burying the intake line/strainer. Adjust as necessary to capture flow within the channel. The actuator, intake line and strainer must be clear of debris (sediment, pine needles, etc.).

If maintenance (e.g., clearing the tube, reposition tubing intake) is necessary and can be performed at the time of inspection, perform the work and describe. If maintenance cannot be completed at the time of inspection (e.g., can't clear intake tubing and spare intake tubing not on hand to replace) then describe the condition and follow up with description of work needed.

21. Item 14: Verify and document the sample tubing has passed a suction test by clicking the expand arrow located on the right side of the task line and changing the "Complete" or "Failed" line to "Yes". Check the condition of sample tubing and vent tubing.

If maintenance (e.g., replace internal pump tubing) is necessary and can be performed at the time of inspection, perform the work and describe. If maintenance (e.g., replace sampler

Inspecting Storm Water Runoff		
Samplers & Retrieving Samples		
for the MSGP		

EPC-CP-QP-047	Page 11 of 26
Revision: 2	Effective Date: XX/XX/2017

pump) cannot be completed at the time of inspection then describe the condition and follow up with description of work needed.

- 22. Item 15: Verify and document the sampler is ON prior to departing the site by clicking the expand arrow located on the right side of the task line and changing the "Complete" or "Failed" line to "Yes".
- 23. Item 16: Verify and document the liquid level actuator has been set to "Latch" prior to departing the site by clicking the expand arrow located on the right side of the task line and changing the "Complete" or "Failed" line to "Yes". If the sampler tripped and requires reset of the sampling program, reset the actuator by toggling the switch to "Reset" and then back to "Latch".
- 24. Item 17: Verify and document the ISCO programming displays the following by clicking the expand arrow located on the right side of the task line and changing the "Complete" or "Failed" line to "Yes".

ISCO 3700 sampler display should indicate "Sampler Inhibited"

OR

Avalanche sampler display should indicate "Program Disabled"

If an error occurs, reconfigure the sampler per EPC-CP-QP-045.

25. If the location has more than one sampler complete Steps 19 through 24 for each sampler.

4.1.6 Maintenance Information

26. Item 18: Verify and document any maintenance completed while on site that is not documented elsewhere on work order by changing the "Complete" or "Failed" line to "Yes". Describe the work performed.

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.

If a battery was replaced record the voltage of the new battery and the battery identification number. If the battery does not have an identification number, contact the MSGP Program Manager to have one assigned. Once assigned, the number must be painted or written in a permanent manner on the battery.

27. Item 19: Verify and document any maintenance needed that could not be completed while on site that is not documented elsewhere on work order by changing the "Complete" or "Failed" line to "Yes". Describe any work needed. Refer to EPC-CP-QP-045 for sampler operation and maintenance.

I	Inspecting Storm Water Runoff
I	Samplers & Retrieving Samples
١	for the MSGP

EPC-CP-QP-047	Page 12 of 26
Revision: 2	Effective Date: XX/XX/2017

4.1.7 Bottle Information

- 28. Item 20: Document water collected by clicking the expand arrow located on the right side of each bottle's task line and change the "Complete" or "Failed" line to 'Yes'. Record the following information for each bottle by position number in the carousel.
 - Date (MM/DD/YY or MM-DD-YY) and time the ISCO collected water.
 - Volume of water in the bottle
 - Type of bottle (e.g. G for glass, P for poly)
 - Specific ISCO displayed message, if present

If the sampler(s) did not trigger, change the "N/A" line to 'Yes' for Bottle #1 of each sampler and leave the other Bottle task lines unanswered.

If a sampler has been inactivated (e.g., sample collection completed) prior to this inspection but continues to appear on the inspection form, change the "N/A" line to "Yes" on this task line. Subsequent questions regarding this sampler may be left unanswered in this section.

- 29. If the location has more than one sampler complete Step 28 for each sampler.
- 30. Replace and secure the sampler top cover and secure the sampler shelter (if sampler is in a shelter).

4.2 Retrieving Samples

- 1. Don nitrile gloves and safety glasses.
- 2. Add up the volume of water collected (see flow chart in Attachment 3) and check that the total volume of water in glass and poly matches the required volume for the specific location identified in the MSGP Sampling and Analysis Plan. The volume of water required to complete analytical may vary by monitored location.
 - If sample volume is sufficient to fulfill all analytical requirements, continue with Step 3.
 - If sample volume is sufficient to fulfill part of the analytical requirements, consult the
 prioritization order on the MSGP Sampling and Analysis Plan to determine which
 analytical to fulfill OR contact the MSGP Data Manager, continue with Step 3 but retrieve
 only the volume needed.
 - If the collected sample will NOT fulfill the minimum required volume for any analytical:
 - Record total volume retrieved as "0" in Item 8
 - Complete a Visual Assessment (see EPC-CP-QP-064)
 - Pour out all water on the ground
 - Skip to Step 10 below

Inspecting Storm Water Runoff		
Samplers & Retrieving Samples		
for the MSGP		

EPC-CP-QP-047	Page 13 of 26
Revision: 2	Effective Date: XX/XX/2017

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. Refer to the MSGP Sampling and Analysis Plan for preservation requirements.

- 3. Remove filled and partially-filled bottles from the carousel.
- 4. For samples retrieved, immediately place lids onto the sample bottles and securely seal. Place custody seal tape on each bottle.
- 5. Write the date and time collected, Sampler Location number, and the corresponding carousel number on each retrieved sample bottle. Retrieve the sample collection date and time from the ISCO sampler.
- 6. Record total volume retrieved in Item 8.
- 7. Conduct a Visual Assessment (see EPC-CP-QP-064).
- 8. Place retrieved sample bottles in a cooler with blue ice (or equivalent).
- 9. Return any excess water or collected volume that exceeded the amount required to the ground at the location collected.
- 10. Install new certified clean sample bottles in the carousel to replace those bottles that collected stormwater. The number and type of bottles may vary. Ensure bottles match the configuration specified in the MSGP Sampling and Analysis Plan.
- 11. The 0.45 micron filter may also need to be replaced. Consult the most current revision of the Sampling and Analysis Plan for specifics. If the sampler is turned off for the quarter but new certified clean sample bottles and/or the filter have not been replaced, note this as follow-up maintenance required (see Item 19).
- 12. Replace and secure the center section of the sampler.
- 13. Return to steps in Section 4.1.

4.3 Completing the Inspection Form

- 1. When 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.

CAUTION

MC Express automatically changes the work order status to "Closed" and auto-populates the date and time fields.

Inspecting Storm Water Runoff Samplers & Retrieving Samples	EPC-CP-QP-047	Page 14 of 26
for the MSGP	Revision: 2	Effective Date: XX/XX/2017

- 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. Ensure the date and time autopopulated are the date and time the inspection was completed.
 - If these fields need to be updated, click the "Date" field to modify it. Make necessary adjustments using the available timestamp application and click "Set" to apply changes.
- 6. Item 22: The inspector must type in his/her name in the "Labor Report Update" field.
 - Any additional notes, observations, or site conditions not documented in a task line "Reading" or "Comments" field can also 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.
- 8. Item 23: 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:** If using MC Express on a desktop screen (not a tablet), the mouse must be used to sign electronically.
- 9. Click on the "Save" bar at the bottom of the page to close the "Signature" field.
- 10. Click on the "Back" button located in the upper left hand corner to return to the "My Open Work Orders" page.
- 11. Once you have completed an inspection, click on the Menu button again, and then click the "Logout" bar. Close the browser. All work will automatically uploaded from the MC Express application to the MC database.

Always log out of MC Express when you have finished work OR if work is interupted.

4.4 REMOVING STORMWATER SAMPLES FROM THE FIELD

- 1. If samples were collected, deliver the samples and corresponding Sample Collection Log/Field Chain of Custody form to the EPC-CP Stormwater Program Laboratory at TA-59-1.
- 2. Sign the Sample Collection Log/Field Chain of Custody and place it with the sample(s) in the refrigerator. Ensure custody seal tape is intact on each sample bottle. Lock the refrigerator to prevent tampering. Refer to EPC-CP-QP-048, *Processing MSGP Stormwater Samples* for instruction on processing samples and submitting samples for shipping to an analytical laboratory.

5.0 TRAINING

The following personnel require training before implementing this procedure:

• EPC-CP technical staff and subcontract or other personnel who inspect automated stormwater samplers and retrieve stormwater samples for the MSGP.

Inspecting Storm Water Runoff
Samplers & Retrieving Samples
for the MSGP

EPC-CP-QP-047	Page 15 of 26
Revision: 2	Effective Date: XX/XX/2017

For EPC-CP staff the training method for this procedure is "self-study" (reading). Other participating groups may require training documentation pursuant to local procedures.

Personnel performing this procedure will be familiar with the most current versions of the following procedures and operation manuals:

- EPC-CP MSGP Sampling and Analysis Plan for the current monitoring year
- Manual for Teledyne ISCO Sampler Model 3700
- Manual for Teledyne ISCO Avalanche® sampler
- Manual for Teledyne ISCO 701 pH/Temperature module (if equipped at station)

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.

6.0 RECORDS

Records generated by this document will be submitted to the EPC-CP Records Management designated point of contact or document manager in accordance with P1020-1, *Laboratory Records Management* and with ADESH-AP-006, *Records Management Plan*.

Completed ISCO Sampler Inspection and Sample Retrieval form(s)

7.0 DEFINITIONS AND ACRONYMS

7.1 Definitions

See LANL Definition of Terms.

7.2 Acronyms

See LANL Acronym Master List.

EPC-CP	Environmental Protection and Compliance-Compliance Programs
IWD	Integrated Work Document
LANL	Los Alamos National Laboratory
LANS	Los Alamos National Security, LLC
MC Express	Maintenance Connection MC Express web application
MSGP	Multi-Sector General Permit
NPDES	National Pollutant Discharge Elimination System

8.0 REFERENCES

None.

Inspecting Storm Water Runoff
Samplers & Retrieving Samples
for the MSGP

EPC-CP-QP-047	Page 16 of 26
Revision: 2	Effective Date: XX/XX/2017

9.0 ATTACHMENTS

Attachment 1: Screenshot Examples of EPC-CP-Form-1010.02 in MC Express

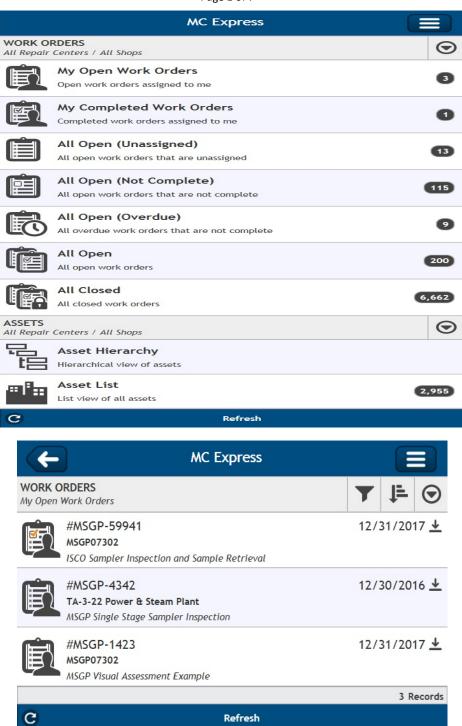
Attachment 2: Crosswalk of EPC-CP-Form-1010.02 Hard Copy Format to Electronic Format Example

Attachment 3: Flow Chart for Sample Retrieval

Inspecting Storm Water Runoff
Samplers & Retrieving Samples
for the MSGP

EPC-CP-QP-047	Page 17 of 26
Revision: 2	Effective Date: 09/06/2017

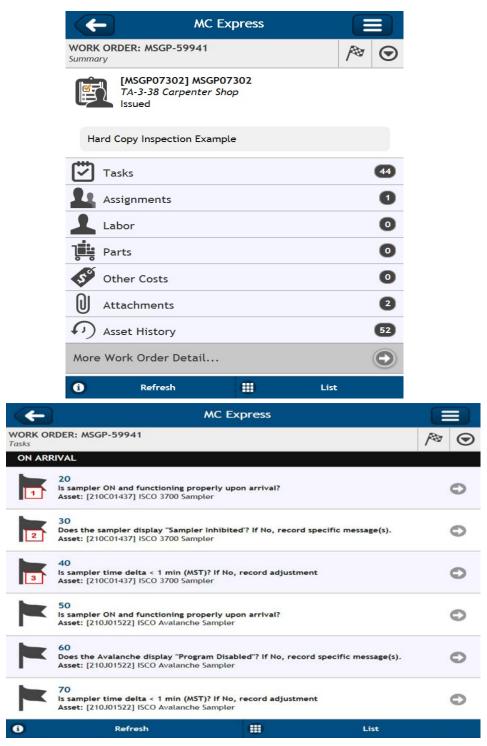
Page 1 of 7



Inspecting Storm Water Runoff
Samplers & Retrieving Samples
for the MSGP

EPC-CP-QP-047	Page 18 of 26
Revision: 2	Effective Date: 09/06/2017

Page 2 of 7



Inspecting Storm Water Runoff
Samplers & Retrieving Samples
for the MSGP

EPC-CP-QP-047	Page 19 of 26
Revision: 2	Effective Date: 09/06/2017

Page 3 of 7

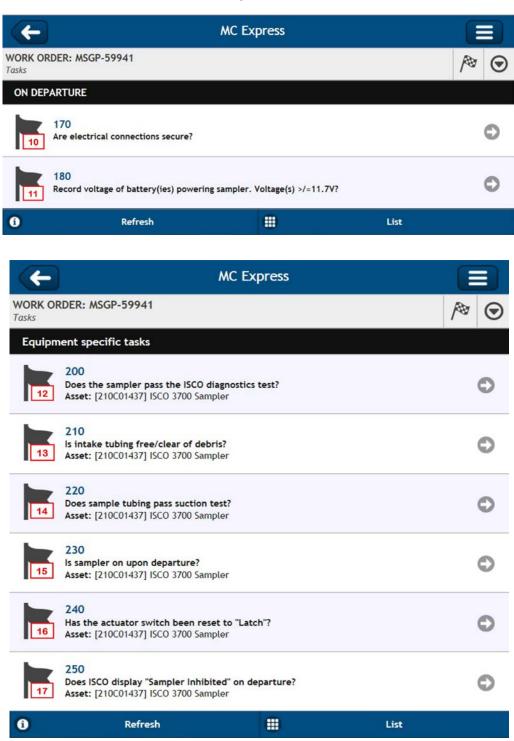




Inspecting Storm Water Runoff
Samplers & Retrieving Samples
for the MSGP

EPC-CP-QP-047	Page 20 of 26
Revision: 2	Effective Date: 09/06/2017

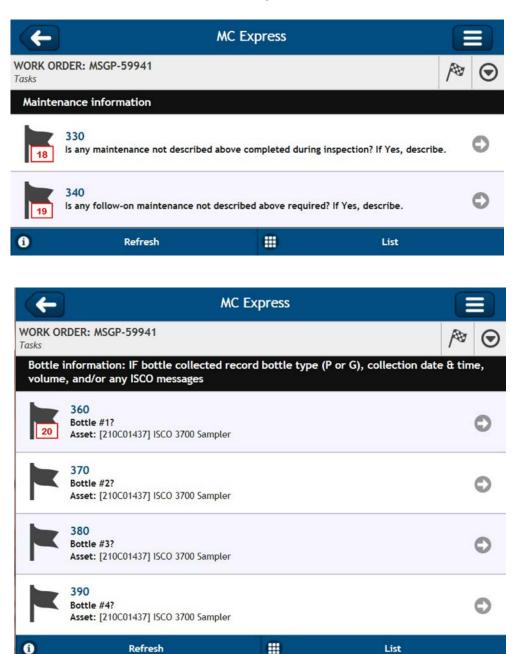
Page 4 of 7



Inspecting Storm Water Runoff
Samplers & Retrieving Samples
for the MSGP

EPC-CP-QP-047	Page 21 of 26
Revision: 2	Effective Date: 09/06/2017

Page 5 of 7

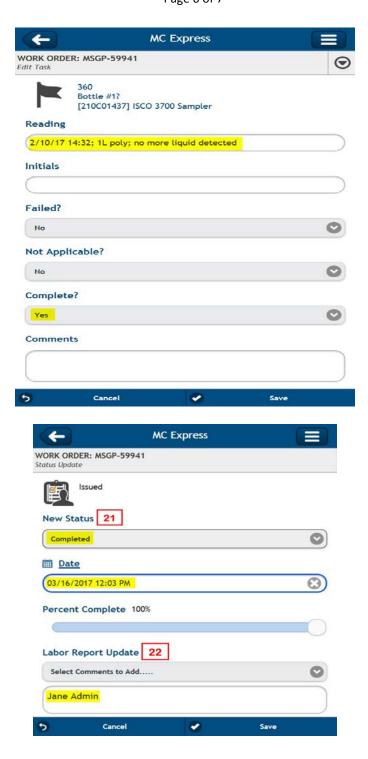


Inspecting Storm Water Runoff
Samplers & Retrieving Samples
for the MSGP

EPC-CP-QP-047	Page 22 of 26
Revision: 2	Effective Date: 09/06/2017

Attachment 1: Screenshot Examples of EPC-CP-Form-1010.02 in MC Express (cont.)

Page 6 of 7

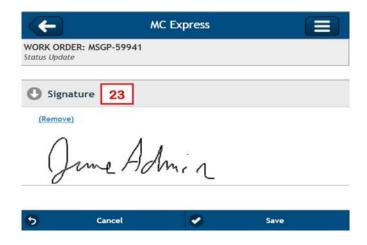


Inspecting Storm Water Runoff
Samplers & Retrieving Samples
for the MSGP

EPC-CP-QP-047	Page 23 of 26
Revision: 2	Effective Date: XX/XX/2017

Attachment 1: Screenshot Examples of EPC-CP-Form-1010.02 in MC Express (cont.)

Page 7 of 7



Inspecting Storm Water Runoff
Samplers & Retrieving Samples
for the MSGP

EPC-CP-QP-047	Page 24 of 26
Revision: 2	Effective Date: 09/06/2017

Attachment 2: Crosswalk of EPC-CP-Form-1010.02 Hard Copy Format to Electronic Format

rage 1 Oi	
Los Alamos National Lab - ADESH	Work Order MSGP-59941
	MSGP Monitoring Stations Printed 8/10/2017 - 11:25 AM (Duplicate Copy)

	Mainten	ance Details			Printed	8/10/2017 -			ing Stations licate Copy)
	Request Procedu	MSGP ISCO Sampler Inspection and Sample Retrieval (EPC-CP- Form-1010.2 2)	Target: Priority/Type: Department:	12/31/2017 / Inspection Utilities and Infrastructure	♣ RG12 ♣ TA-3-	38 Carpent ored Outfa			
	Last PM	: 7/20/2017 ISCO Inspections wk			Contact:	Admin, Ja	ne		
	Project:	8/7/17 (P-MSGP-5212)			Phone:	123-4567			
	Reason:	Hard Copy ISCO Sampler Insp	ection and Sampl	e Retrieval					
	Tasks –								
	#	Description				Meas.	No	N/A	Yes
4	ON ARE								
1	20	ISCO 3700 Sampler [210C0143							
2	30	ISCO 3700 Sampler [210C0143 record specific message(s).	37] Does the sam	pler display "Sampler Inhibite	d'? If No,				
1	30	ISCO 3700 Sampler [210C014	371 Is sampler tim	e delta < 1 min (MST)2 If No	record			Lat	1.0
3	40	adjustment	27] to sampler tim	e della - i i i i i (MOT): II 140	iccord				
Т		ISCO Avalanche Sampler [210	J01522] Is sampl	er ON and functioning prope	rly upon				
	50	arrival?							
	60	Disabled"? If No, record specific	message(s).						
	70	ISCO Avalanche Sampler [210 record adjustment	J01522] Is sampl	er time delta < 1 min (MST)?	If No,				
	Water C	collection information							
4	90	Is there evidence of flow? If YES of discharge.	S (but no water co	llected), describe and record	date/time		П	П	п
5	100	Is any water collected? If YES,	complete Bottle In	formation section.				F	
6	110	ISCO Avalanche Sampler [210 refrigerator temperature (C).					П	П	
Т		ISCO pH and Temp Module [2	11C01137] If wate	er was collected, record the p	Н			-	
7	120	measurement corresponding to MAXIMUM:	the sample date/t	ime: AVERAGE: MINIMUM:			П		П
	Water F	etrieval information							
8	140	Was sample volume RETRIEVE	D? If Yes, record	total volume retrieved.					
9	150	Was a Visual Assessment perform (EPC-CP-TP-064).	rmed? If Yes, con	nplete the MSGP Visual Asse	ssment		П		
T	ON DEF	PARTURE							
10		Are electrical connections secur	e?				П.		
11		Record voltage of battery(ies) p		Voltage(s) >/=11.7V?					
Т			9	W-1-7					
12		ent specific tasks	371 Deep the same	alar nace the ISCO diagraphi	an tank?		_	_	_
13	200 210	ISCO 3700 Sampler [210C0143			cs test?				-12
14	220	ISCO 3700 Sampler [210C014] ISCO 3700 Sampler [210C014]					-	+	
15	230	ISCO 3700 Sampler [210C014:					+	무-	
16	240	ISCO 3700 Sampler [210C014:			h"?		-#-	+	
-	250	ISCO 3700 Sampler [210C014: departure?			at 6		п.	<u> </u>	

Inspecting Storm Water Runoff Samplers & Retrieving Samples for the MSGP

EPC-CP-QP-047	Page 25 of 26
Revision: 2	Effective Date: 09/06/2017

Attachment 2: Crosswalk of EPC-CP-Form-1010.02 Hard Copy Format to Electronic Format (cont.)

Page 2 of 2

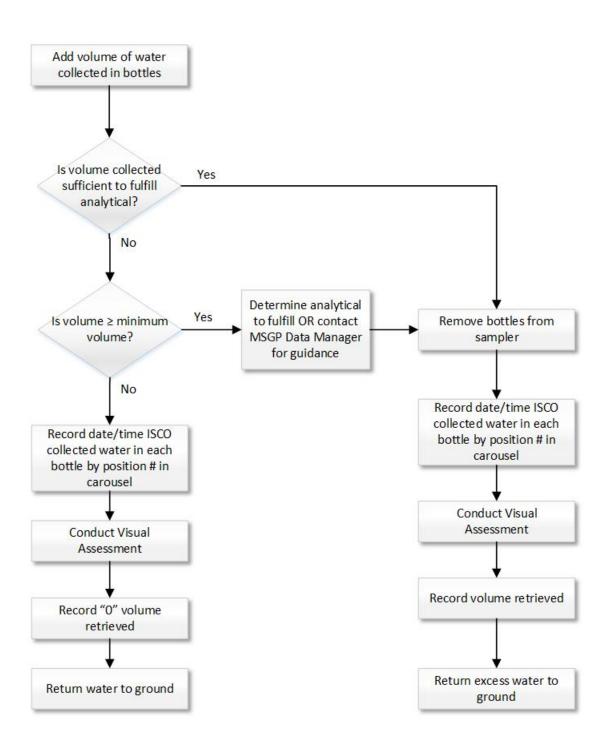
	260	ISCO Avalanche Sampler [210J01522] Does the sampler pass the ISCO diagnostics test?				
	270	ISCO Avalanche Sampler [210J01522] Is intake tubing free/clear of debris?				
	280	ISCO Avalanche Sampler [210J01522] Does sample tubing pass suction test?				
	290	ISCO Avalanche Sampler [210J01522] is sampler on upon departure?				
	300	ISCO Avalanche Sampler [210J01522] Has the actuator switch been reset to "Latch"?	-		-	
	500	ISCO Avalanche Sampler [210J01522] This the actuator switch been reserved. Later !		1.0	Lat	
310 departure?						
	Mainten					
18	330	Is any maintenance not described above completed during inspection? If Yes, describe.				
19	340	Is any follow-on maintenance not described above required? If Yes, describe.				
I	Bottle in	nformation: IF bottle collected record bottle type (P or G), collection date & time, volume, and/ces	or any Is	sco		
20	360	ISCO 3700 Sampler [210C01437] Bottle #1?				
Т	370	ISCO 3700 Sampler [210C01437] Bottle #2?				
	380	ISCO 3700 Sampler [210C01437] Bottle #3?				
	390	ISCO 3700 Sampler [210C01437] Bottle #4?				
	400	ISCO 3700 Sampler [210C01437] Bottle #5?				
	410	ISCO 3700 Sampler [210C01437] Bottle #6?				
	420	ISCO 3700 Sampler [210C01437] Bottle #7?				
	430	ISCO 3700 Sampler [210C01437] Bottle #8?				
	440	ISCO 3700 Sampler [210C01437] Bottle #9?				
	450	ISCO 3700 Sampler [210C01437] Bottle #10?				
	460	ISCO 3700 Sampler [210C01437] Bottle #11?				
	470	ISCO 3700 Sampler [210C01437] Bottle #12?				
	480	ISCO Avalanche Sampler [210J01522] Bottle #1?				
	490				-	
		ISCO Avalanche Sampler [210J01522] Bottle #2?				
	500	ISCO Avalanche Sampler [210J01522] Bottle #3?				
	510	ISCO Avalanche Sampler [210J01522] Bottle #4?		- 1		
	Report:	Jane Admin Jane Admin 5/30/2017 4:44:00 PM Jane Admin 5/30/2017 Signature / Name The information as recorded is true, accurate and complete.		Date		
WC	D ID:	Pageof				
		Time:				
Na	me/Z#:					
Na	Name/Z#:					
Lea	ad Signatu	ure:				

Inspecting Storm Water Runoff
Samplers & Retrieving Samples
for the MSGP

EPC-CP-QP-047	Page 26 of 26
Revision: 2	Effective Date: 09/06/2017

Attachment 3: Flow Chart for Sample Retrieval

Page 1 of 1



MSGP Stormwater Pollution Prevention Plan Revision 1, January 2020

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

EPC-CP-QP-2106	Revision: 0	• Los Alamos
Effective Date: 10/18/2019	Next Review Date: 10/18/2022	NATIONAL LABORATORY — EST.1943 —

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

Environment Protection and Compliance – Compliance Programs Group

Quality Procedure

Processing MSGP Stormwater Samples

Hazard Grading:	⊠ Low		Hi	igh/Complex	
Usage Level:	⊠ Referen	ce UET		lixed: UET Sections:	
Status:	New	Major Revision		linor Revision	
	Review	w/No Changes	⊠ o	ther: New EPC-CP format and numbering	g system
Safety Basis:	⊠ N/A	USQ	U:	SI Number:	
		Document Author	/Subje	ect Matter Expert:	
Name:		Organization:	Si	gnature:	Date:
Holly L. Wheeler		EPC-CP	Si	gnature on File	10-17-19
	Derivative Classifier: Unclassified or				
Name:		Organization:	Si	gnature:	Date:
Steven E. Wolfel		EPC-CP	Si	gnature on File	10-17-19
Approval Signatures:					
EPC-CP Reviewer:		Organization:	Si	gnature:	Date:
Terrill W. Lemke		EPC-CP Team Leader	Si	gnature on File	10-17-19
EPC-CP RLM:		Organization:	Si	gnature:	Date:
Taunia Van Valkenbu	urg	EPC-CP Group Leader	Si	gnature on File	10-18-19

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Users are responsible for ensuring they work to the latest approved version. To document a required read, Login to <u>UTrain</u>, and go to the Advanced Search.

Processing	MSGP	Stormwater
Samples		

No: EPC-CP-QP-2106	Page 2 of 19
Revision: 0	Effective Date: 10/18/2019

REVISION HISTORY

Document Number and Revision [Include revision number, beginning with Revision 0]	Effective Date [Document Control Coordinator inserts effective date]	Description of Changes [List specific changes made since the previous revision]
ENV-RCRA-QP-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.

Processing MSGP Stormwater Samples

No: EPC-CP-QP-2106 Page 3 of 19

Revision: 0 Effective Date: 10/18/2019

Table of Contents

Revis	sion H	story	2
1.0	Intro	duction	4
	1.1	Purpose	4
	1.2	Scope	4
	1.3	Applicability	4
2.0	Prec	autions and Limitations	4
3.0	Prer	equisite Actions	5
	3.1	Planning and Coordination	5
	3.2	Performance Documents	5
	3.3	Special Tools, Equipment, Parts and Supplies	5
4.0	Proc	essing Samples	6
	4.1	Preparation for Processing Samples	6
	4.2	Filtering Samples	9
	4.3	Preserving Unfiltered and Filtered Samples	9
	4.4	Quality Control Samples	10
		4.4.1 Field Blank Samples	10
		4.4.2 Field Duplicate Samples	11
	4.5	Handling Excess Stormwater	12
	4.6	Submit Samples for Shipping to Offsite Analytical Laboratory	12
5.0	Trair	ing	14
6.0	Reco	rds	14
7.0	Defir	nitions and Acronyms	15
	7.1	Definitions	15
	7.2	Acronyms	15
8.0	Refe	rences	15
9.0	Atta	chments	16
	Atta	chment 1: Water Sample Collection and Processing Log/Field Chain of Custody Example	17
		chment 2: Sample Container Labels Example	
	Atta	chment 3: Chain of Custody/Analysis Request Example	19

Processing MSGP Stormwater	No: EPC-CP-QP-2106	Page 4 of 19
Samples	Revision: 0	Effective Date: 10/18/2019

1.0 INTRODUCTION

Triad LLC, the operator for Los Alamos National Laboratory (LANL or the Laboratory), conducts stormwater monitoring activities pursuant to the National Pollutant Discharge Elimination System (NPDES), Multi-Sector General Permit (MSGP). As part of this monitoring, Environmental Protection and Compliance, Compliance Programs (EPC-CP) personnel collect stormwater discharge samples from outfalls at industrial sites and prepare them for analysis.

1.1 Purpose

This procedure describes the process for filtering, preserving and preparing stormwater samples for shipment to an analytical laboratory from locations where EPC-CP conducts stormwater monitoring activities required pursuant to the NPDES MSGP. This procedure may also be used for other Associate Laboratory Directorate for Environment, Safety, Health, Quality, Safeguards, and Security (ALDESHQSS) stormwater monitoring activities as needed.

1.2 Scope

Stormwater samples are collected in the field with either a refrigerated Avalanche® or ISCO 3700 automated sampler, single stage sampler, or by hand. When in-line filtration is not possible, sample filtration, along with chemical preservation (as required) is conducted immediately following sample retrieval in the field or in the EPC-CP Stormwater Laboratory (TA-59-01).

Sample collection, submission, and analysis is conducted using Environmental Protection Agency (EPA) and New Mexico Water Quality Control Commission guidelines. MSGP monitoring samples are collected and analyzed according to test procedures approved under Title 40 of the Code of Federal Regulations Part 136 unless other test procedures have been specified in the MSGP. Quantitation limits associated with these test procedures are sufficiently sensitive to meet MSGP limits.

1.3 Applicability

This procedure applies to EPC-CP technical staff and subcontractor personnel (as applicable) who conduct processing and chemical preservation of stormwater samples either in the EPC-CP Stormwater Laboratory or in the field.

The MSGP Program Lead is the primary person responsible for this procedure. EPC-CP personnel are appointed responsibility for a subset of sampling stations. Other stormwater monitoring programs or projects utilizing this procedure will refer to program or project specific roles and responsibilities.

2.0 PRECAUTIONS AND LIMITATIONS

The hazard level for the activities in this procedure is <u>LOW</u>. An Integrated Work Document Part II (2101 Form) will address any site-specific requirements and training for Facility Operations Divisions (FOD) if required by the FOD.

Processing MSGP Stormwater	No: EPC-CP-QP-2106	Page 5 of 19
Samples	Revision: 0	Effective Date: 10/18/2019

Use only sample containers that are documented to meet or exceed "US EPA Specification and Guidance for Contaminant-Free Sample Container" (Publication 9240.05A, EPA/540/R-93/051, December 1992). Never clean or re-use sample containers. Keep containers in a clean, dry place until a sample is ready for processing and transfer to the appropriate container(s).

3.0 PREREQUISITE ACTIONS

3.1 Planning and Coordination

Refer to the most current revision of the MSGP or program/project specific Sampling and Analysis Plan (SAP) to determine the need for collecting quality control samples. Collect the types and quantities of quality control samples at the locations specified.

Schedule and complete stormwater processing to meet the analytical holding time requirements identified in the MSGP SAP or as requested by the MSGP Program Lead. Other stormwater monitoring programs or projects utilizing this procedure will refer to their program or project specific SAP.

The MSGP Data Manager will generate Water Sample Collection and Processing Log/Field Chain of Custody (SCPL) form(s) at the beginning of the MSGP monitoring season and/or the beginning of each MSGP monitoring quarter. The MSGP Data Manager will generate Chain of Custody/Analysis Request(s) from the Environmental Information Management (EIM) database as stormwater is collected. If the MSGP Data Manager is not available, forms will be obtained from the EPC-CP Sample Management Office (SMO).

3.2 Performance Documents

Personnel performing this procedure will be familiar with the most current versions of the following documents if the equipment or chemicals are utilized.

- Peristaltic Pump User Manual (e.g., GeoTech)
- Material Safety Data Sheet or Safety Data Sheet for preservation chemicals

3.3 Special Tools, Equipment, Parts and Supplies

Ensure the following equipment is available:

- Safety glasses with side shields
- · Nitrile gloves
- Lab coat
- Eyewash in Stormwater Lab (or portable eyewash in the field)
- Water SCPL form
- Chain of Custody/Analysis Request
- EPC-CP MSGP SAP most recent revision for the current monitoring year OR project specific monitoring plan

Processing MSGP Stormwater	No: EPC-CP-QP-2106	Page 6 of 19
Samples	Revision: 0	Effective Date: 10/18/2019

- Sample containers (glass and poly bottles)
- Sample container lids
- Acid and base preservatives
- Clean silicon (e.g., Tygon) tubing
- Portable peristaltic pump (e.g., Geopump or equivalent)
- 0.45 micron (μm) and/or 0.10 μm cartridge filters (where applicable)
- Deionized water (where applicable)
- Paper towels
- Coolers with ice, Blue Ice®, or equivalent
- Ball point pen
- Permanent marker
- Chain-of-custody seals/tape
- Copy of this procedure
- Cell phone (only government cell phones are allowed in secure areas) (See
 https://int.lanl.gov/policy/documents/P217.pdf for requirements for using portable electronic devices on Laboratory property.

4.0 PROCESSING SAMPLES

In this procedure, sample collection bottles are the bottles in which the sample was collected in the field. Sample containers are containers into which the original sample is transferred (as necessary) during processing and shipped to the analytical laboratory.

NOTE: Prior to performing any of the steps in the following sub-sections, ensure that you are wearing the proper clothing. Don nitrile gloves, safety glasses with side shields, and a lab coat. Confirm that the eyewash station is operational prior to processing samples.

4.1 Preparation for Processing Samples

Sample Retriever

[1] Arrange sample collection bottles on the workbench in order by MSGP sampling location, ensuring to distinguish bottles collected via in-line filtration from non-filtered bottles, where applicable.

CAUTION

Process only one sample set (i.e., samples listed on one SCPL form or samples from one location) at a time to ensure stormwater from different locations is not co-mingled.

Processing MSGP Stormwater	No: EPC-CP-QP-2106	Page 7 of 19
Samples	Revision: 0	Effective Date: 10/18/2019

- [2] Cross-check the Location ID (e.g., MSGP00201) on the sample bottles with the LOCATION ID on the SCPL form (see example in Attachment 1).
- [3] Ensure the pre-populated information on the SCPL form is correct. Document any changes [e.g., change FIELD MATRIX code from rain (WT) to snowmelt (WM)].
- [4] Write the following information on the SCPL.
 - [a] Sampler Inspection and Sample Retrieval form (refer to EPC-CP-QP-2103) identification number (e.g., Work Order: MSGP-xxxx);
 - [b] Date/time the sample was collected in the field (e.g., date/time automated sampler filled sample bottles or a grab sample was taken);
 - [c] Date/time the sample was retrieved from the field;
 - [d] "Not Applicable" (N/A) in the LOCATION SYNONYM(S) field unless the information is required by the SAP;
 - [e] N/A in the PRIORITY box if box is not pre-populated;
 - [f] Any pertinent information regarding sample collection and/or retrieval in the SAMPLE COMMENTS field (e.g., grab sample collected by hand, recent erosion observed up-gradient of sampler) or N/A;
 - [g] N/A for FIELD PARAMETER Sample Time (this is documented at the top of the form as COLLECTION TIME);
 - [h] pH measurement taken at the time the sample was collected in the field (if applicable) or N/A;
 - [i] Indicate if a visual assessment was performed.
 - <u>IF</u> a visual assessment <u>WAS NOT</u> performed, THEN write N or No in the Visual Inspection space.
 - <u>IF</u> a visual assessment <u>WAS</u> performed, <u>THEN</u> write Y or Yes in the Visual Inspection space and the identification number from the MSGP Visual Assessment form (refer to EPC-CP-QP-2105) (e.g., MSGP-xxxx).
 - [j] The printed name and signature of the person who retrieved the sample in the COLLECTED BY box and date/time the sample was retrieved from field
- [5] <u>IF</u> the person who retrieved the sample is processing, <u>THEN</u> write N/A in the first RELINQUISHED BY and RECEIVED BY boxes.
- [6] <u>IF</u> the person who retrieved the sample is NOT processing, 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.

Processing MSGP Stormwater	No: EPC-CP-QP-2106	Page 8 of 19
Samples	Revision: 0	Effective Date: 10/18/2019

[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, HNO₃).
 - [c] Note any deviation from the planned sample container volume, type, or preservation on the SCPL.
- [8] Determine which samples require filtration and chemical preservation as requested on the SCPL.
 - [a] Mark each container lid with the 3-digit outfall ID, required analysis, filtration requirement, and preservative requirement.
 - **NOTE 2:** Requirements are also identified in the most current SAP revision.
- [9] For split samples, follow these steps:
 - [a] Turn the sample collection bottle upside down multiple times to ensure sediment is loose from the bottom of the bottle.
 - [b] Pour sample into sample containers ensuring the sample remains homogenized throughout the transfer.
- [10] Refer to Section 4.2 Filtering Samples, Section 4.3 Preserving Unfiltered and Filtered Samples, and Section 4.4 Quality Control Samples as needed.
- [11] Indicate if each sample on the SCL was collected by writing Y for Yes or N for No in the COLLECTED Y/N box.
- [12] <u>IF</u> the SPECIAL INSTRUCTIONS box is not pre-populated, <u>THEN</u> write N/A in the box.
- [13] Document any other deviations from the planned sample processing on the SCPL (e.g., turbid sample required extra filtration step, used standard deionized water in lieu of ultrapure water for field blank) under PROCESSING COMMENTS or SAMPLING COMMENTS,
 - OR write N/A.
- [14] <u>IF</u> no further processing is required (e.g., chemical preservation), <u>THEN</u> apply a chain-of-custody seal/tape around the bottle and lid and sign and date the seal/tape.
- [15] The person processing the sample will print and sign his/her name and indicate the date/time samples were processed in the PROCESSED BY box.
- [16] Proceed to Section 4.5.

Processing MSGP Stormwater	No: EPC-CP-QP-2106	Page 9 of 19	
Samples	Revision: 0	Effective Date: 10/18/2019	

4.2 Filtering Samples

Filter samples if specified on the SCPL or if an in-line filter was not used during sample collection.

- [1] Select the appropriate sized cartridge filter (e.g., 0.10μm or 0.45μm).
- [2] Set up the filter assembly.
 - [a] Attach an appropriate amount of silicone tubing to both ends of the cartridge filter.
 - [b] Place the filter upstream of the peristaltic pump to prevent overpressurization.
 - IF the sample contains a significant amount of sediment,
 THEN a pre-filter of the same size or larger micron capacity may be used.
- [3] For split filtered samples, follow these steps:
 - [a] Move the intake tube up and down through the sample during filtration.
 - **NOTE 1:** A sample collected solely for filtration can be filtered without being homogenized by gently shaking.
- [4] Replace the filter if any of the following conditions occur:
 - flow diminishes,
 - the pump begins to make a grinding sound, or
 - the tubing is forced off the filter by backpressure.
- [5] Place the lid on the container.
 - [a] Ensure the lid is securely affixed to the container.
 - [b] Add a check mark next to the filtered requirement previously marked on the lid to indicate that filtration has been completed.
 - [c] Clean and dry the exterior of sample container.
 - [d] Check sample container for leakage and breakage.
- [6] Remove and dispose of filter and tubing when filtration of one sample set (location) has been completed.
 - **NOTE 2:** A new filter must be used with each new sample set.
- [7] Return to Section 4.1, Step 11.

4.3 Preserving Unfiltered and Filtered Samples

Preservation entails the addition of acid or base to a sample. Acids currently used include hydrochloric acid (HCl), nitric acid (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

Processing MSGP Stormwater	No: EPC-CP-QP-2106	Page 10 of 19
Samples	Revision: 0	Effective Date: 10/18/2019

depend on the required monitored parameters and are subject to change (e.g., biennial Clean Water Act §303(d)/305(b) Integrated Report updates).

WARNING

Preservatives are strong acids and bases that can cause severe burns. Take extreme care when using these acids and bases.

- [1] Review the analysis requested on the SCPL or SAP.
- [2] Select the pre-measured preservative type and size that matches the sample container size.
 - [a] <u>IF</u> you only have one size pre-measured preservative that does not match the sample container size, <u>THEN</u> you will use more than one. For example, if you have a 1-liter sample container and 500 mL pre-measured preservative vial, you will need to add two preservative vials to the sample container.
 - **NOTE:** Never "split" a larger volume pre-measured vial to preserve a smaller volume container (e.g., do not pipette from a 1-liter, pre-measured preservative vial to preserve a 500 mL sample). Error in measurement precision may lead to a risk of violating Department of Transportation shipping requirements.
- [3] Add the preservative (acid or base) to the sample.
 - [a] Securely affix the lid to the container.
 - [b] Agitate the preserved sample by turning the container upside down two to three times.
- [4] Add a check mark next to the preservation type previously marked on the lid to indicate that preservation has been completed.
 - [a] Clean and dry the exterior of sample container.
 - [b] Check sample container for leakage and breakage.
- [5] Return to Section 4.1, Step 11.

4.4 Quality Control Samples

Refer to the SCPL or the program specific SAP for the types and quantities of quality control samples and the locations where these samples will be collected.

4.4.1 Field Blank Samples

- [1] Review the analysis requested on the SCPL or SAP.
 - [a] Ensure the sample container volume, type, and preservation type is correct for the analysis requested (e.g., 500 mL POLY, HNO₃).

Processing MSGP Stormwater Samples	No: EPC-CP-QP-2106	Page 11 of 19
	Revision: 0	Effective Date: 10/18/2019

[b] Note any deviation from the planned sample container volume or type on the SCPL.

CAUTION

DO NOT use tap, distilled, or drinking water purchased from a local store. These sources may not meet the water quality standards specified in the New Mexico Administrative Code (Title 20, Chapter 6, Part 4).

- [2] Obtain analyte free water (e.g., High Performance Liquid Chromatography grade ultrapure in amber glass) in sealed bottle(s) in sufficient quantity to fulfill the analysis requested.
- [3] Select another empty sample container(s) of the same type and volume for the analysis requested.
- [4] Mark the bottle and container lids with the 3-digit outfall ID and "Field Blank".
- [5] Transport both the field blank bottle(s) and container(s) to the sampling location.
- [6] During retrieval of samples, open the field blank bottle(s) and pour the analyte free water into the field blank sample container(s).
- [7] Securely affix the lid(s) to the container(s).
- [8] Replace the lid on the analyte free water bottle.
 - [a] <u>IF</u> 500 mL or greater remain in the bottle, <u>THEN</u> replace lid and mark the bottle with the date it was opened and "For Decon Use Only".
 - [b] <u>IF</u> less than 500 mL remain in the bottle, <u>THEN</u> dispose of water in the EPC-CP Stormwater Laboratory sink and dispose of the bottle.
- [9] Return the field blank containers with retrieved samples to the EPC-CP Stormwater Laboratory (TA-59-01) for any further required processing.
- [10] Return to Section 4.1, Step 11 to complete sample processing.

4.4.2 Field Duplicate Samples

- [1] Review the analysis requested on the SCPL or SAP.
 - [a] Ensure the sample container volume, type, and preservation type is correct for the analysis requested (e.g., 500 mL POLY, 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:

Processing MSGP Stormwater Samples	No: EPC-CP-QP-2106	Page 12 of 19
	Revision: 0	Effective Date: 10/18/2019

 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.

[1] <u>IF</u> any excess stormwater sample exists after processing has been completed, <u>THEN</u> perform the following steps.

Sample Processor

- [a] Ensure the container is labeled with the site of origin, date and time sample was collected, and "Return to Site."
- [b] Place the container in the designated storage location in the EPC-CP Stormwater Laboratory.

EPC-CP technical staff

- [c] Return the sample to the site of origin as soon as possible.
- [d] Discharge at the sampler location.
- [2] <u>IF</u> the excess stormwater has been altered (e.g., tap water or preservative added), <u>THEN</u> contact the TA-59-0001 Waste Management Coordinator for further instruction.

4.6 Submit Samples for Shipping to Offsite Analytical Laboratory

Sample Processor

[1] Deliver completed SCPL(s) to the MSGP Data Manager.

MSGP Data Manager

[2] Process the sample information in the EIM system.

Processing MSGP Stormwater	No: EPC-CP-QP-2106	Page 13 of 19	
Samples	Revision: 0	Effective Date: 10/18/2019	

- [a] Capture any documented deviations from planned conditions (as noted on the SCPLs).
- [b] Generate Chain of Custody/Analysis Request (COC) form(s) and sample container labels to reflect the processed samples (see examples in Attachments 2 and 3).

Sample Processor

- [3] Ensure the sample containers are securely sealed and wiped dry.
- [4] Cross-check to ensure the Sample ID on the SCPL matches the Field Sample ID on the COC.
- [5] Compare the information from the SCPL and lid of each container and apply the correct labels to the sample containers.
- [6] <u>IF</u> the person who processed the sample is NOT submitting the samples to the SMO, 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

- [7] Place the sample(s) in a cooler with sufficient Blue Ice® (or equivalent) to maintain the required preservation temperature (≤4° C).
 - **NOTE:** Cushioning material (e.g., bubble wrap) may be used to separate containers to avoid breakage during transport
- [8] Place the SCPL(s) and COC(s) in a zip lock type bag, seal, and place in the cooler with samples.
- [9] Transport samples to the SMO.
 - [a] Deliver samples during SMO business hours by 2pm for same day shipping.
 - [b] Coordinate with the SMO for delivery during other times or for delivery of samples that have limited holding times.
 - [c] If delivery of samples to the SMO will be delayed, place sample containers with SCPL(s) in the EPC-CP Stormwater Laboratory refrigerator and ensure the refrigerator is locked.
- [10] Complete the COC form as follows:
 - [a] On the Relinquished By line, the person submitting the sample(s) will sign and print his/her name and date/time samples are relinquished to the SMO.

Processing MSGP Stormwater Samples	No: EPC-CP-QP-2106	Page 14 of 19	
	Revision: 0	Effective Date: 10/18/2019	

- [b] The SMO personnel accepts the sample(s) by signing and printing his/her name and recording the date/time on the Received By line.
- [11] Complete the SCPL form as follows:
 - [a] Ensure all fields are filled out with sample information or N/A. Do not leave blank fields.
 - [b] In the RELINQUISHED BY box, the person submitting the sample(s) will sign and print his/her name. Sign and print your name on the SCPL in the "Relinquished By" box.
 - [c] Record the date/time that matches the data and time RELINQUISHED BY on the COC.
 - [d] Record the COC number (e.g., 2017-xxxx) in the RECEIVED BY box.
- [12] Ensure the following steps are taken:
 - [a] SMO makes a copy of the SCPL(s) to accompany the COC and samples.
 - [b] Keep the original SCPL(s) for the MSGP program.
 - [c] Make a copy of the signed Chain of Custody/Analysis Request.
- [13] Deliver the copy of the signed COC and original SCPL(s) to the MSGP Data Manager for record keeping.

5.0 TRAINING

All EPC-CP personnel that execute the activities specified in this procedure must meet the minimum qualification and training requirements for their position as identified EPC-CP-PIP-2101, NPDES Multi-Sector General Permit Program. This will include "self-study" (required reading) for this procedure as assigned and documented in accordance with ENV-DO-QP-115, *Personnel Training*. Other participating LANL groups may require training documentation pursuant to local procedures.

Contract personnel that execute the activities specified in this procedure will be qualified and trained as required by the Exhibit D and Exhibit F. In addition, contract personnel will be required to complete "self-study" (required reading) of this procedure.

Personnel performing this procedure will be familiar with the most current versions of the following procedures and operation manuals:

- EPC-CP MSGP SAP for the current monitoring year
- EPC-CP-QP-2103 Inspecting Stormwater Runoff Samplers and Retrieving Samples for the MSGP

6.0 RECORDS

EPC-CP is the Office of Record for this document and must be maintained in accordance with PD1020, Document Control and Records Management and ADESH-AP-006, Records Management

Processing MSGP Stormwater Samples	No: EPC-CP-QP-2106	Page 15 of 19
	Revision: 0	Effective Date: 10/18/2019

Plan. Records generated by this document will be submitted to the Records Management designated point of contact or document manager for document management.

Below are records generated as a result of implementing this procedure. Records generated are identified by title and type.

Record Title	QA Record	Non-QA Record
*Water Sample Collection and Processing Log/Field Chain of Custody	\boxtimes	
*Chain of Custody/Analysis Request	\boxtimes	
Copy of log book entry(s) (if a log book is used)	\boxtimes	
Other pertinent field or lab notes (if additional notes are required)	\boxtimes	

^{*}The original document is part of the data package QA records for the SMO. MSGP retains a copy for tracking purposes only.

7.0 DEFINITIONS AND ACRONYMS

7.1 Definitions

See LANL *Definition of Terms*.

7.2 Acronyms

See LANL Acronym Master List.

COC	Chain of Custody/Analysis Request	
EIM	Environmental Information Management	
EPA	Environmental Protection Agency	
EPC-CP	Environmental Protection and Compliance – Compliance Programs	
LANL	Los Alamos National Laboratory	
μm	Micron	
mL	Milliliter	
MSGP	Multi-Sector General Permit	
N/A	Not Applicable	
NPDES	National Pollutant Discharge Elimination System	
SAP	Sample Analysis Plan	
SCPL	Water Sample Collection and Processing Log/Field Chain of Custody	
SMO	Sample Management Office	

8.0 REFERENCES

None.

Processing MSGP Stormwater	No: EPC-CP-QP-2106	Page 16 of 19
Samples	Revision: 0	Effective Date: 10/18/2019

9.0 ATTACHMENTS

Attachment 1: Water Sample Collection and Processing Log/Field Chain of Custody Example

Attachment 2: Sample Container Labels Example

Attachment 3: Chain of Custody/Analysis Request Example

Processing MSGP Stormwater Samples

No: EPC-CP-QP-2106 Page 17 of 19

Revision: 0 Effective Date: 10/18/2019

Attachment 1: Water Sample Collection and Processing Log/Field Chain of Custody Example

(Page 1 of 1)

Los Alamos National Laboratory

WATER SAMPLE COLLECTION AND PROCESSING LOG/FIELD CHAIN OF CUSTODY

EVENT ID:

11743

EVENT NAME: MSGP 2018

SAMPLE ID:

MSGP-18-153015

16:03

WORK ORDER: MSGP-12345

COLLECTION

DATE/TIME:

RETRIEVAL DATE/TIME:

LOCATION ID:

MSGP04301

SAMPLER TYPE: APS-R

LOCATION TYPE: WCS

SAMPLE PREP: UF

LOCATION

SYNONYM(S): NA

FIELD QC TYPE: REG

FIELD MATRIX: WT

SAMPLE USAGE: COMP.

PRIORITY	ORDER	CONTAINER	#	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS	PROCESSING COMMENTS
Alu	MSGP-TSS	ML POLY	1	ICE	X	NIA	Alu

SAMPLE COMMENTS: NA

FIELD PARAMETERS:

Sample Time NA HH:MM

Visual Inspection WO# MSGP- 67890

Market Street Market Street St			
COLLECTED BY Jane Doc (Printed Name) (Signature)	Date/Time 07/03/18 09:25		
RELINQUISHED BY (Printed Name) (Signature)	Date/Time 07/03/18 10:05	RECEIVED BY (Printed Name) (Signature) John Smith	Date/Time 07/03/18 10:05
PROCESSED BY (Printed Name) (Signature)	Date/Time 07/03/18 13:00		
RELINQUISHED BY John Smith (Printed Name) (Signature)	Date/Time 07/04/18 08:35	RECEIVED BY (Printed Name) See CoC# (Signature) 20(7-)326	Date/Time
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) N\A (Signature)	Date/Time

Report Date: 08/01/2018

Processing MSGP Stormwater	No: EPC-CP-QP-2106	Page 18 of 19		
Samples	Revision: 0	Effective Date: 10/18/2019		

Attachment 2: Sample Container Labels Example (Page 1 of 1)

Los Alamos National Laboratory				
Sample ID: MSGP-17-131786				
Container: 500 ML POLY			1 of 1	
Preservative: HNO3 ICE			= -	
Analysis: NPDES-Al-Total Recoverable	*			
Date/ 04/01/2017	Time:	16:03		

Los Alamos National Laboratory						
Sample ID:	MSGP-17-131787					
Container:	500 ML POLY	1-	1 of 1			
Preservative:	HNO3 ICE					
Analysis: NF	DES-Al-Total Recover	able	-			
Date/	04/01/2017	Time: 16:03	31.15			

Processing M	SGP Stormwate	r
Samples		

No: EPC-CP-QP-2106 Page 19 of 19

Revision: 0 Effective Date: 10/18/2019

Attachment 3: Chain of Custody/Analysis Request Example

(Page 1 of 1)

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Los Alamos NM													-			-1						Ik'	Page 1 of 1	
Client Contact:	Lab Agreen	nent #:		Site	e Na	me:		Los	Ala	mos	Nat	iona	La	bora	tory	_								
	Project Nur Analysis Tur 24 Hour - 7 Days -	naround Time: Other -																					Rad Screenii	ig Info:
	14 Days - 21 Days - 28 Days -			Zn																			Lab Reportin	_
Field Sample ID	Sample Date	Sample Time	Sample Matrix	MSGP-Zn																				•
MSGP-17-131904	Apr 1 2017	16:03	W	1																				
MSGP-17-132187	Apr 1 2017	16:03	W	1		L													-	1	-	-		
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telinguished by: Print Name:			Date/Time:					R	Received by: Print Name:							e:			Date/Tim	0:				

Revision 1, January 2020

EPC-DO-QP-101, ENVIRONMENTAL REPORTING REQUIREMENTS FOR ATTACHMENT 21: RELEASES OR EVENTS

EPC-DO-QP-101	Revision: 3	Los Alamos
Effective Date: 08/07/2017	Next Review Date: 08/07/2020	NATIONAL LABORATORY —— EST. 1943

Environment, Safety, and Health Directorate

Environmental Protection and Compliance Division – Compliance Programs

Quality Procedure

Environmental Reporting Requirements for Releases or Events

Document Owner/Subject Matter Expert:

Name:	Organization:	Signature:	Date:			
Brian Iacona	EPC-CP	Signature on File	4-27-17			
Derivative Classifier: 🔀 Unclassified or 🗌 DUSA ENVPRO						
D	erivative Classifier: 🔀 Unc	lassified or DUSA <u>ENVPRO</u>				
Name:	Organization: Unc	lassified or DUSA ENVPRO Signature:	Date:			

Approval Signatures:

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Environmental Reporting Requirements	
for Releases or Events	

EPC-DO-QP-101	Page 2 of 23
Revision: 3	Effective Date: 08/07/2017

REVISION HISTORY

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Environmental Reporting Requirements for Releases or Events

EPC-DO-QP-101Page 3 of 23Revision: 3Effective Date: 08/07/2017

Table of Contents

Qualit	ty Pro	cedure	1
Revisi	on Hi	story	2
Table	of Co	ntents	3
1.0	Intro	duction	4
	1.1	Purpose	4
	1.2	Applicability	4
2.0	Preca	autions and Limitations	4
3.0	Resp	onsibilities	4
4.0	Work	Processes	5
	4.1	Responsibility of On-Call Representative	5
	4.2	Follow-Up Reporting	6
	4.3	Summary of Policy Reporting	6
	4.4	Using this Procedure	6
	4.5	Determining if a Release is Reportable under RCRA	7
	4.6	Determining if a Release is Reportable under TSCA	7
	4.7	Determining if a Release is Reportable under the NM Water Quality Act or the CWA	8
		4.7.1 Reporting Requirement for Petroleum Storage Tanks	9
		4.7.2 Additional Reporting Requirements under the NPDES Pesticide General Permit	10
	4.8	Determining if a Release is Reportable under CERCLA or EPCRA	11
		4.8.1 Regulatory Classification of the Released Material	11
	4.9	Determining Release Impacts to Biological or Cultural Resources	13
	4.10	Reporting a Release or Event	13
		4.10.1 Steps to Notify LANL Management and DOE	14
5.0	Reco	rds	15
6.0	Defin	itions and Acronyms	16
	6.1	Definitions	16
7.0	Refer	rences	18
8.0	Attac	hments or Appendices	19
	Attac	hment 1: Emergency Notification Requirements for RCRA	20
	Attac	hment 2. Summary of Emergency Release or Event Reporting Requirements	21

Environmental Reporting Requirements	EPC-DO-QP-101	Page 4 of 23
for Releases or Events	Revision: 3	Effective Date: 08/07/2017

1.0 INTRODUCTION

This Environmental Protection and Compliance Division (EPC-DO) 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, and P322-4, 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 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. For notifications to Pueblo Environmental Departments refer to ENV-DO-QP-111, Reporting Environmental Releases to Pueblo Governments.

2.0 PRECAUTIONS AND LIMITATIONS

The work described in this procedure includes field work that does <u>not</u> require an Integrated Work Document (IWD) and is rated as having a **LOW hazard** level.

3.0 RESPONSIBILITIES

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. This procedure will be reviewed biennially by all affected personnel and updated as necessary.

Training to this procedure will be by "self-study" (reading) and is documented in accordance with the trainee's organization's procedure for training.

Actions specified within this procedure, unless preceded with "should" or "may", are to be considered mandatory (i.e., "shall", "will", "must").

Environmental Reporting Requirements	EPC-DO-QP-101	Page 5 of 23
for Releases or Events	Revision: 3	Effective Date: 08/07/2017

4.0 WORK PROCESSES

Events covered by this procedure include detonation or burns of unstable material, leaking or compromised gas cylinders, puncturing of bulging containers, fires, explosions, chemical or radiological spills, wastewater spills, potable water discharges, and other unplanned releases at the Laboratory.

On a semi-annual basis, EPC-DO 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 Principal Associate Directorate for Operations (PADOPS), Associate Directorate for Environment, Safety, and Health (ADESH), Associate Directorate for Environmental Management (ADEM), Emergency Operations (SEO-DO), EPC-DO, Environmental Protection and Compliance Division Compliance Programs Group (EPC-CP), and Environmental Protection and Compliance Division Environmental Stewardship Group (EPC-ES). The on-call representative can be reached by pager at 505-664-7722.

4.1 Responsibility of On-Call Representative

The EPC on-call representative is the party primarily responsible for:

- determining if the incident will require immediate notification to external agencies in accordance with LANL, state, and federal regulatory reporting requirements
- notifying EPC Division management of immediate reporting requirements
- if needed, coordinating with other on-call SMEs and the Emergency Operations Center (EOC) to ensure the required notifications for environmental reporting and abnormal events are being addressed for the Laboratory

The EPC on-call representative is not responsible for the following and EOC will make these determinations:

- determining if the Resource Conservation Recovery Act (RCRA) Contingency Plan must be implemented
- if a shock-sensitive material or leaking or compromised gas cylinder constitutes an emergency

However, in order to ensure that the appropriate expertise is available for the affected media, the EPC on-call representative may immediately confer with an SME of the EPC group that has programmatic responsibility. If an SME from the responsible group is able to respond to the event, the <u>remaining steps in this procedure may be passed to that person.</u>

A list of contact numbers for on-call representatives and SMEs for EPC-CP and EPC-ES groups is available in the EPC-CP group office. The EPC-DO and SEO-DO may also be contacted to determine the on-call representative for each group.

Environmental Reporting Requirements	EPC-DO-QP-101	Page 6 of 23
for Releases or Events	Revision: 3	Effective Date: 08/07/2017

4.2 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 specifically responsible for compliance with the relevant regulations will complete the required notifications and reports, as applicable under the appropriate regulations, according to established procedures.

4.3 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 Los Alamos Field Office (DOE LAFO) 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 management, with input from EPC SMEs, will determine if an ORPS (Occurrence Reporting Processing System) report or other type of Lessons Learned will be necessary.

NOTE: SEO-DO maintains a current list of on-call LANL managers.

4.4 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:

- Resource Conservation and Recovery Act (RCRA)
- Toxic Substances Control Act (TSCA)
- Clean Water Act (CWA), New Mexico Water Quality Act (NMWQA), and New Mexico Water Quality Control Commission (NMWQCC) Regulations
- Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) and Emergency Planning and Community Right-to-Know Act (EPCRA)
- Clean Air Act
- Endangered Species Act
- Bald and Golden Eagle Protection Act
- Migratory Bird Treaty Act
- New Mexico Wildlife Conservation Act
- National Environmental Policy Act
- National Historic Preservation Act
- Native American Graves Protection and Repatriation Act

Environmental Reporting Requirements	EPC-DO-QP-101	Page 7 of 23
for Releases or Events	Revision: 3	Effective Date: 08/07/2017

Archaeological Resources Protection Act

Each release needs to be evaluated for all potential reporting requirements. For example, a Reportable Quantity (RQ), defined under CERCLA or EPCRA may not be met, **but the release may be reportable** under RCRA, New Mexico Water Quality Control Commission (NMWQCC), and/or Clean Water Act (CWA) requirements.

NOTE: The 24-hour deadline (immediate in some cases) applies regardless of whether it occurs during business hours, after business hours or on non-business days.

4.5 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 requirements, the SEO-DO manager determines if the "RCRA Contingency Plan" provisions should be implemented. The EPC on-call representative or an EPC-CP SME performs notifications that may be required.

The SEO-DO Manager will normally attempt to contact the EPC-CP SME for guidance in making this decision. If the EPC-CP SME is successfully contacted, the completion of the remainder of this procedure 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-CP and appropriate SMEs. 24-hour notification can be made by the EPC on-call representative or by an EPC SME.

The Emergency Operations Center (EOC) manager makes the determination that unstable chemicals, leaking or compromised gas cylinders represent an emergency situation and, typically with EPC-CP, how best to respond. 24-hour notification can be made by the on-call representative or EPC-CP SME.

If a release/event is reportable under RCRA rules, determine if the release/event is reportable under other rules and proceed to the Section 4.10 *Reporting a Release or Event*.

4.6 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 [40 Code of Federal Regulations (CFR) 761.125(a)(1)]. 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 *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	EPC-DO-QP-101	Page 8 of 23
for Releases or Events	Revision: 3	Effective Date: 08/07/2017

There are six items containing PCBs that are out of service at the Chemistry and Metallurgy Research (CMR) Building. All other known PCB equipment at the Laboratory has 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 ...

equal to or over 1 pound by weight of PCBs (TSCA) or greater than 270 gallons of untested mineral oil suspected of containing PCBs

Then...

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.

4.7 Determining if a Release is Reportable under the NM Water Quality Act or the CWA

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 if reporting is required. No quantifiable metric is available to assist in making this determination. 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 if the release is greater than 5,000 gallons, reaches a watercourse, or if the release adversely impacts a Solid Waste Management Unit (SWMU) or Area of Concern (AOC) as directed in the LANL Liquid Discharge Reporting Guidance (Decision Tree), dated March 10, 2009. Contact ADEM to confirm the location and potential impacts to SWMUs or AOCs from any releases that may occur.

Groundwater Discharge Permit Reporting

The Laboratory has four current 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.

Environmental Reporting Requirements	EPC-DO-QP-101	Page 9 of 23
for Releases or Events	Revision: 3	Effective Date: 08/07/2017

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-1793: Land Application of Treated Groundwater. Permit Condition No. 17.

The unauthorized release of untreated or treated groundwater that does not constitute land application, as defined in EPC-CP-QP-010: Land Application of Groundwater, would be subject to reporting under Condition No. 17.

4. DP-1835: Injection of Treated Groundwater to Class V Underground Injection Control (UIC) Wells. Permit Condition No. 22.

The unauthorized release of treated or untreated groundwater that does not constitute injection into a Class V UIC well, as defined in Discharge Permit DP-1835, would be subject to reporting under Condition No. 22.

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.

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 or unplanned release from an NPDES permitted outfall upon discovery in order to meet applicable reporting requirements.

4.7.1 Reporting Requirement for Petroleum Storage Tanks

As defined in 20.5.7 NMAC, 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:

- any suspected or confirmed release of regulated substances
- evidence of release of regulated substances
- unusual operational conditions (that would cause concern about a release)
- monitoring results that show loss from the system

Environmental Reporting Requirements	EPC-DO-QP-101	Page 10 of 23
for Releases or Events	Revision: 3	Effective Date: 08/07/2017

Regulated tanks include those with a capacity between 1,320 gallons and 55,000 gallons. Regulated substances for Aboveground Storage Tanks 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 Aboveground Storage Tank (AST) Program Lead and/or the EPC-CP Water Quality Team Leader prior to completing any external notifications. The PSTB can be reached at 476-4397 during business hours and 827-9329 (NMED Emergency Spill Hotline) during non-business 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 14 days of the incident.

4.7.2 Additional 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 which:

- 1. There is evidence that a person or non-target organism has likely been exposed to a pesticide residue, <u>and</u>
- 2. The person or non-target organism suffered a toxic or adverse effect.

The phrase <u>toxic or adverse effect</u> includes effects that occur within Waters of the United States on non-target plants, fish, or wildlife that are unusual or unexpected (e.g., effects are to organisms not otherwise described on the pesticide product label or otherwise not expected to be present) as a result of exposure to a pesticide residue, and may include:

- Distressed or dead juvenile and small fishes
- Washed up or floating fish
- Fish swimming abnormally or erratically
- Fish lying lethargically at water surface or in shallow water
- Fish that are listless or nonresponsive to disturbance
- Stunting, wilting, or desiccation of non-target submerged or emergent aquatic plants
- Other dead or visibly distressed non-target aquatic organisms (amphibians, turtles, invertebrates, etc.)

The phrase <u>toxic or adverse effects</u> also includes any adverse effects to humans (e.g. skin rashes) or domesticated animals that occur either from direct contact with or as a secondary effect from a discharge (e.g., sickness from consumption of plants or animals containing pesticides) to Waters of the United States that are temporally and spatially related to exposure to a pesticide residue (e.g. vomiting, lethargy).

Environmental Reporting Requirements	EPC-DO-QP-101	Page 11 of 23
for Releases or Events	Revision: 3	Effective Date: 08/07/2017

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, which may have resulted from a discharge from the Operator's pesticide application, the Operator must immediately (within 15 minutes of discovery) notify the U. S Fish and Wildlife Service. This notification must be made by phone to the contact listed on the EPA's website (https://www.epa.gov/npdes/pesticide-permitting).

4.8 Determining if a Release is Reportable under CERCLA or EPCRA

Under CERCLA or EPCRA, an RQ is the threshold which requires regulatory notification of a release. An RQ is based on the quantity of chemical released within any 24-hour period. CERCLA RQs of hazardous substances are listed in 40 CFR § 302.4. 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. If a release of an airborne radioactive material exceeds an RQ, the EPA Region 6 Health Physicist (Office-(214) 665-8541; Mobile-(214) 755-1530; Home-(972) 937-1900) must also be verbally notified after the NRC notifications have been completed.

A release is reportable under EPCRA if a release of a hazardous or extremely hazardous substance listed in 40 CFR Part 355 Appendices A and B occurs. The chemicals that have not been assigned RQs by the EPA have been given statutory RQs of one pound by Congress. If an RQ established under EPCRA is met or exceeded, 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).

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 EPCRA and CERCLA reporting requirements.

NOTE: Response procedures for "Continuous Releases" are not covered in this procedure.

4.8.1 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:

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

Environmental Reporting Requirements	EPC-DO-QP-101	Page 12 of 23
for Releases or Events	Revision: 3	Effective Date: 08/07/2017

estimates may require reporting, it is best to be conservative and report the release following the reporting requirements detailed in Section 4.10 *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 released.

Step	Action				
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.				
3	If this is an airborne release of radioactive materials, immediate (within 15 minutes of discovery) reporting to the NRC and the EPA Region 6, Regional Health Physicist is required if the RQ has been exceeded. Note that for radioactive materials, the RQ is provided in activity units (curies or becquerels). Also note that some materials have an RQ value for both chemical exposure (Table 302.4) and for radiological exposure (Appendix B to §302.4). In these cases, the RQ applying to the smallest quantity of material will apply.				
	For all radioactive material releases, a radiological dose assessment must also be performed within 24 hours of the release. This dose assessment should be made by an environmental health physicist in EPC-CP or EPC-ES. The on-call individual should contact an EPC health physicist for this evaluation.				
	Immediate evaluation – RQ comparison (of a radioactive material release)				
	If the release	Then			
	Is equal to or greater than the RQ	Proceed to section 4.10 Reporting a Release or Event.			
	Is less than the RQ	No immediate reporting is required; contact EPC environmental health physicist to complete follow-up dose assessment.			
4	If this is a release of non-rad material, it is reportable if the RQ is exceeded.				
	If the amount released is,	Then			
	Equal to or greater than the RQ	Proceed to Section 4.10 Reporting a Release or Event.			
	Less than the RQ	Proceed to Step 5			
5	Continue to re-evaluate the release as as necessary.	new data becomes available. Perform Steps 1 through 4			

Environmental Reporting Requirements	EPC-DO-QP-101	Page 13 of 23
for Releases or Events	Revision: 3	Effective Date: 08/07/2017

4.9 Determining Release Impacts to Biological or Cultural Resources

There are laws and regulations related to protection of biological and cultural resources which are applicable to the Laboratory. These laws and regulations include:

- National Environmental Policy Act
- Endangered Species Act
- Bald and Golden Eagle Protection Act
- Migratory Bird Treaty Act
- New Mexico Wildlife Conservation Act
- New Mexico Endangered Species Act
- National Historic Preservation Act
- Native American Graves Protection and Repatriation Act
- Archaeological Resources Protection Act

Reporting of impacts to biological or cultural resources under the preceding federal laws is not specifically defined. However, the EPC on-call SME should utilize the Decision Support Application (DSA) to determine if the release impacted a Biological or Cultural Site. The DSA layer 'Federally Listed Species Habitat' contains Endangered Species habitat boundaries. The DSA 'Cultural Resources-Buffered Sites' layer contains the boundaries of the Cultural Sites (Please note-information contained in these layers is Official Use Only). Notify the respective Biological or Cultural SME within one business day if the release impacted either of these areas. The Biological or Cultural SMEs will handle any additional reporting requirements.

Additionally, if there is a release of contaminants to a wetland or destruction of a wetland, OR if the event could result in the "take" of a threatened or endangered species (i.e., a wildfire), the EPC oncall representative or SME will notify the Biological SME within one business day of the event. The Biological SME will complete any additional reporting requirements.

4.10 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 5.0 *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 and P322-4, Performance Improvement from Abnormal Events.

Environmental Reporting Requirements	EPC-DO-QP-101	Page 14 of 23
for Releases or Events	Revision: 3	Effective Date: 08/07/2017

Los Alamos National Security (LANS) 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:

Step	Action		
1	Compile release information including :		
	The source, cause, type and quantity of the release		
	Time and duration of the release		
	Extent of any protective and corrective actions taken		
	 Name, address, and telephone number of the person to contact for further information 		
	Whether the substance is an HS or EHS		
	 Associated health risks and medical attention necessary for exposed individuals 		
	 If available, information concerning the release of any hazardous and/or mixed waste which may endanger public or private drinking water supplies 		
	 Assessment of actual or potential hazards to human health or the environment outside the facility 		
	 If available, estimated quantity and disposition of recovered material that resulted from the incident 		
	 Precautions to take due to the release/event, including, in the case of fire, those associated with special hazards due to hazardous and/or mixed waste 		
	 Any other information which may help emergency personnel responding to the incident 		
	Environmental media impacted from the release		
2	Notify LANL management, DOE, and the respective Facilities Operations Division (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 - 4.9. 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.		

4.10.1 Steps to Notify LANL Management and DOE

The EPC on-call representative will complete the following steps to provide notification to LANL Management and DOE.

Step	Action	
1	Determine that a release to the environment is reportable to state or federal entities as	

Environmental Reporting Requirements	EPC-DO-QP-101	Page 15 of 23
for Releases or Events	Revision: 3	Effective Date: 08/07/2017

	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, the EPC-DO Division Leader, and DOE LAFO program contact of the release and the required external notifications.
3	Complete environmental reporting to state and federal agencies in accordance with all applicable regulations.
4	Notify the appropriate program SME that may be impacted or be required to complete following 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 which may impact the public and or the environment, EPC staff may provide a courtesy notification to New Mexico Environment Department of events that may not require formal regulatory notification. Examples of such events in the past have been small wild land fires.

5.0 RECORDS

The following records are generated as a result of this procedure and are maintained in accordance with ADESH-AP-006 Records Management Plan and P1020-1, Laboratory Records Management:

- Field documentation of the release, including:
 - Time and date of the release
 - Time, date, and description of notifications
 - Location and source of the release
 - Type of material released
 - Quantity of material released
 - Impacted media
 - Time release was stopped
 - Any immediate mitigation actions taken to contain or control the release
 - Documentation of any verbal notifications
 - Samples taken
- Copies of any written notifications generated

Environmental Reporting Requirements	EPC-DO-QP-101	Page 16 of 23
for Releases or Events	Revision: 3	Effective Date: 08/07/2017

- 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

6.0 DEFINITIONS AND ACRONYMS

6.1 Definitions

ADESH – Associate Directorate for Environment, Safety, and Health

ADEM – Associate Directorate for Environmental Management

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

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.

CWA - Clean Water Act

DOE LAFO – Department of Energy Los Alamos Field Office

DSA – Decision Support Application

Environment – Includes "water, air, land, and the interrelationship which exists among and between water, air, land, and all living things." (40 CFR 355.20)

EOC – Emergency Operations Center

EPA – Environmental Protection Agency

EPC-DO – Environmental Protection and Compliance Division

EPCRA – Emergency Planning and Community Right-to-Know Act

EPC-CP – Environmental Protection and Compliance Division Compliance Programs Group

for Polococc or Events	EPC-DO-QP-101	Page 17 of 23
	Revision: 3	Effective Date: 08/07/2017

EPC-ES – Environmental Protection and Compliance Division Environmental Stewardship Group

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.

FOD – Facility Operations Director

GWDP-Ground Water Discharge Permit

Hazardous Substance (HS) – These substances are summarized in 40 CFR Part 302. As used in this context, 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).

IWD – Integrated Work Document

LANL – Los Alamos National Laboratory

LANS – Los Alamos National Security

LEPC – Local Emergency Planning Committee

NMAC - New Mexico Administrative Code

NMED – New Mexico Environment Department

NMWQA – New Mexico Water Quality Act

NMWQCC - New Mexico Water Quality Control Commission

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

RAD – Responsible Associate Director

RCRA – Resource Conservation and Recovery Act

Environmental Reporting Requirements	EPC-DO-QP-10
for Releases or Events	Revision: 3

EPC-DO-QP-101	Page 18 of 23	
Revision: 3	Effective Date: 08/07/2017	

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.

RQ – Reportable Quantity

SARA – Superfund Amendments and Reauthorization Act

SDS – Safety Data Sheet

SERC – State Emergency Response Commission

SERF – Sanitary Effluent Reclamation Facility

SEO-DO –Security and Emergency Operations Division

SME – Subject Matter Expert

SWMU – Solid Waste Management Unit

SWWS - Sanitary Waste Water System

TSCA – Toxic Substances Control Act

UIC – Underground Injection Control

7.0 REFERENCES

The following documents are referenced in this procedure:

- 40 CFR 302, Designation, Reportable Quantities, and Notification
- 40 CFR 261, 264 Subpart D 270.30
- DOE guidance document PCB Spill Response and Notification Requirements
- (EH-231-059/1294), available on the EPC-CP web page
- DOE Office of Environmental Guidance, CERCLA Information Brief, EH-231-001-0490 (April 1990)
- EPA Web Site: http://www.epa.gov/
- EPCRA Information Web Site: http://www.chemicalspill.org/EPCRA-facilities/spill.html
- 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
- P322-3, Performance Improvement from Abnormal Events
- LANL RCRA Permit No. NM0890010515-1
- LANL NPDES Permit No. NM0028355

Environmental Reporting Requirements	EPC-DO-QP-101	Page 19 of 23
for Releases or Events	Revision: 3	Effective Date: 08/07/2017

- National Response Center (NRC) Web Site: http://www.nrc.uscg.mil/
- NMWQCC Regulations, 20.6.2 NMAC, dated December 1, 2001
- P407, Water Quality
- P1020-1, Laboratory Records Management
- ADESH-AP-006, Records Management Plan

8.0 ATTACHMENTS OR APPENDICES

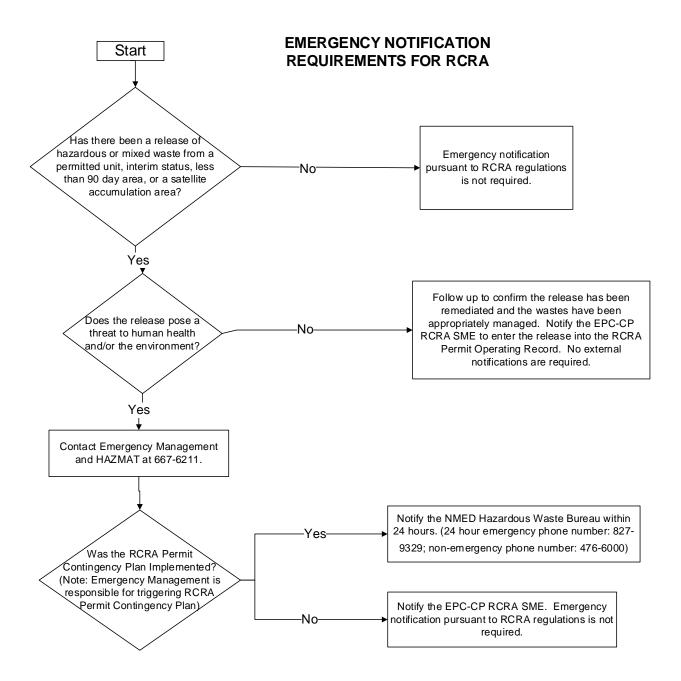
Attachment 1: Emergency Notification Requirements for RCRA

Attachment 2: Summary of Emergency Release or Event Reporting Requirements

Environmental Reporting Requirements
for Releases or Events

EPC-DO-QP-101	Page 20 of 23	
Revision: 3	Effective Date: 08/07/2017	

Attachment 1: Emergency Notification Requirements for RCRA



Environmental Reporting Requirements
for Releases or Events

EPC-DO-QP-101	Page 21 of 23	
Revision: 3	Effective Date: 08/07/2017	

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 which 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).

Environmental Reporting Requirement	S
for Releases or Events	

 EPC-DO-QP-101
 Page 22 of 23

 Revision: 3
 Effective Date: 08/07/2017

STATUTE	REGULATIONS	INCIDENT	Immediate Reporting Requirements	Follow Up Reporting Requirements
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-1793: Land Application of Treated Groundwater DP-1835: Injection of Treated Groundwater to Class V UIC Wells	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 Environmental Improvement Board Regulation	20.5.7 NMAC	A release of a petroleum product from regulated aboveground storage tank.	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 (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 14 days of the incident.
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.	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-DO-QP-101Page 23 of 23Revision: 3Effective Date: 08/07/2017

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 not required.
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 possible after discovery, but no later than 24 hours after discovery.	Within 24 hours. Follow-up: as required by agency.

TA-03-22 Power and Steam Plant

MSGP Stormwater Pollution Prevention Plan Revision 1, January 2020

ATTACHMENT 22: ENV-CP-QP-007, SPILL INVESTIGATIONS

ENV-CP-QP-007	Revision: 10
Effective Date: 09/30/15	Next Review Date: 09/30/18



Environment, Safety, Health Directorate

Environmental Protection – Compliance Programs

Quality Procedure

Spill Investigations

Reviewers:

		1			
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Spill Investigations	ENV-CP-QP-007	Page 2 of 12
	Revision: 10	Effective Date: 09/30/15

History of Revisions

Document Number [Include revision number, beginning with Revision 0]	Effective Date [Document Control Coordinator inserts effective date]	Description of Changes [List specific changes made since the previous revision]
0	12/98	New Document.
1	06/00	Annual review, added Cerro Grande fire hazards
2	07/01	Annual review
3	06/03	Annual review
4	04/04	Annual review, changes to HCPs
5	02/07	Annual review, changes to reflect organizational restructure
6	07/08	Annual review
7	09/10	Biennial Review and revision
8	04/11	Removed prerequisites, added note re: on-call spill reporting.
9	07/13	Biennial review and revision, implemented new procedure format.
10	09/30/15	Biennial review and revision, implemented new procedure format. Controlled the updated LANL ENV-CP Unplanned Release Report.

Spill Investigations

ENV-CP-QP-007 Page 3 of 12

Revision: 10

Effective Date: 09/30/15

Table of Contents

1.0	PURF	POSE	4
2.0		PE	
2.0	2.1	Hazard review	
3.0	RESP	ONSIBILITIES	4
	3.1	Prerequisites	4
4.0	WOR	KK PROCESSES	4
	4.1	Field Activity	
	4.2	Communication	
	4.3	Facility Management Work Control Requirements for Field Activities	6
	4.4	Facility Management-Specific Access Requirements	6
	4.5	Regulatory Spill Reporting	8
5.0	DOC	UMENT CONTROL/RECORDS MANAGEMENT	8
6.0	DEFII	NITIONS	9
7.0	REFE	RENCES	9
8.0		ACHMENTS	
•		chment 1- ENV-CP Release Notification Phone List	
		chment 2- LANL ENV-CP Unplanned Release Report	

Spill Investigations	ENV-CP-QP-007	Page 4 of 12
	Revision: 10	Effective Date: 09/30/15

1.0 PURPOSE

This Environmental Protection Division – Compliance Programs Group (ENV-CP) procedure describes processes and implements requirements for spill investigations.

2.0 SCOPE

This procedure applies to all ENV-CP staff and personnel conducting spill investigations.

2.1 HAZARD REVIEW

The work described in this procedure is <u>field work</u> and has a <u>LOW hazard</u> rating as documented by submittal of a completed <u>ENV Low Hazard Verification form</u>.

3.0 RESPONSIBILITIES

The following personnel require training before implementing this procedure:

• ENV-CP staff and contract personnel who perform spill response and investigation.

Annual re-training to this procedure is required. Specific training requirements will be updated as needed.

The training method for this procedure is required reading and on-the-job training (OJT). The OJT is to be conducted by a Team Leader or person designated as Subject Matter Expert (SME) by the ENV-CP Group Leader. This training will be documented in accordance with ENV-DO-QP-115, *Personnel Training*.

Actions specified within this procedure, unless proceeded with "should" or "may," are to be considered mandatory (i.e., "shall", "will", "must").

3.1 Prerequisites

None

4.0 WORK PROCESSES

Responsibility is to assure the immediate mitigation and timely notification of appropriate regulatory organizations in the event of a spill or unplanned discharge that has or may affect the environment. Work requires frequent and unscheduled site visits to any area of the Laboratory during a spill or unplanned release as support staff for the on-scene Security and Emergency Operations (SEO) Incident Commander.

Specific activities associated with Spill Response and Investigation:

- Respond to the spill or unplanned release site;
- Report to the On-Scene SEO Incident Commander and Site Safety Officer;
- Receive site safety requirements;
- Provide decision support;
- Investigate the nature and extent of the spill or unplanned release;

Spill Investigations	ENV-CP-QP-007	Page 5 of 12
	Revision: 10	Effective Date: 09/30/15

- Evaluate the potential environmental impact to water quality;
- Report the occurrence to the regulatory agencies, if necessary; and
- Provide support to mitigation plan and implementation.

4.1 FIELD ACTIVITY

If the spill or unplanned discharge is determined to be a non-emergency event by SEO response, such as a release of potable water, perform the following steps:

Step	Action
1	Perform a site visit in coordination with the Facility
	Operations Director designee.
2	Assess potential environmental damage.
3	Provide mitigation measures and requirements.
4	Document the event.
5	Notify regulatory agencies and DOE, if necessary.
6	Facilitate collection of samples, if necessary.

For emergency response, perform the following steps:

Step	Action	
1	Report to on-scene commander and await instructions.	
2	Perform a site visit in coordination with SEO.	
3	Adhere to access requirements as developed by the SEO Site Safety Officer and Incident Commander.	
4	Identify and document the source and cause of the release.	
5	Provide notification and written report if necessary.	
6	Facilitate collection of samples if necessary and safe to do so.	

If sample collection is required, contact the following sampling personnel:

- ENV-CP
 - NPDES outfall
 - Sanitary treatment solids
- WM-SVS
 - Wastes and chemical spills (liquid, solid, hazardous)
- ADEP Environmental Remediation Division
 - Surface water
 - Storm water runoff
 - Groundwater
 - Sediments

Spill Investigations	ENV-CP-QP-007	Page 6 of 12
	Revision: 10	Effective Date: 09/30/15

If WM-SVS will collect the required sample, 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.

4.2 COMMUNICATION

Take a cellular phone that will transmit from the location to be visited. Also take a contact pager to receive messages.

If cellular service is unavailable, use a portable radio set to the appropriate radio frequency.

If in a secure area where cell phone use is prohibited, use the radio. Be sure to have radio checked and authorized for use within secure areas or within the boundaries of the WFO FOD or WX Division. Government-owned cellular phones, with batteries removed, may be brought into the secure area but used only if approval is given by the SEO Incident Commander or FOD or designee. Rules of use for Smartphones and other mobile devices (BlackBerry, iPhones, iPads) can be found on the Computing Communications webpage for mobile devices, http://int.lanl.gov/computing/communications/mobile/index.shtml.

Radio or cellular contact must be established with a designated contact prior to leaving ENV-CP and upon arrival/departure at the site in accordance with <u>ENV-DO-QP-100</u>, <u>General Field Safety</u>.

The Incident Commander can make special communication exceptions.

All photography at LANL must adhere to <u>P217, Controlled Articles</u>.

Wastes generated from activities described in the procedure will be properly characterized, managed, and disposed in accordance with <u>P409, LANL Waste Management</u>, <u>P930-1, LANL Waste Acceptance Criteria</u>, and P403, *Environmental Risk Identification and Management*.

4.3 FACILITY MANAGEMENT WORK CONTROL REQUIREMENTS FOR FIELD ACTIVITIES

Most field activities performed by the ENV-CP spill response personnel are impacted by facility management work control requirements. Requirements vary between the respective Facility Operations Divisions (FODs) and therefore necessitate ENV-CP response personnel to acquire FOD approval for site access in advance of starting work activities. The exception to this is in response to emergency situations as support to SEO staff.

Should work be required to stop/pause, reference P101-18, *Procedure for Pause/Stop Work*, for guidance.

4.4 FACILITY MANAGEMENT-SPECIFIC ACCESS REQUIREMENTS

4.4.1 HIGH EXPLOSIVES AREAS

TA-16 and TA-11 high explosives areas have specific access requirements. Access inside the security gate requires annual site-specific training. Curricula #5243 must be assigned and all the training courses completed before arriving at TA-16. For access, (normal or after hours) contact the WFO FOD to ensure entry requirements are met and the activity is authorized for the Plan of the Day.

Spill Investigations	ENV-CP-QP-007	Page 7 of 12
	Revision: 10	Effective Date: 09/30/15

For access to WFO perimeter gates during normal working hours or after hours, contact TA-15 Access Control at 667-6742 and request permission to enter. A perimeter gate key must be picked up at the TA-15 Access Control office. Note that all outdoor firing will be suspended during entry.

For perimeter gates, prior notification for after-hours entry is also required by SOC. Perform the following steps:

Step	Action	
1	Call SOC Los Alamos at 667-4437.	
2	Identify yourself to the on duty officer or attendant.	
3	Provide the following information: Group, color and make of vehicle (s), which perimeter gate you are entering, and approximate time of arrival and finally, length of stay.	

Failure to notify security personnel in advance could result in a security violation against the visiting Team Member.

Provide notification to SOC Los Alamos at 667-4437 when leaving area.

For access to WX areas required during normal or after working hours, perform the following steps:

- Ensure the required security clearance (Q clearance) is held, and
- Contact the FOD or designee for entry requirements.

4.4.2 CHEMISTRY METALLURGY RESEARCH FACILITY ACCESS

For access to the Chemistry Metallurgy Research Facility, perform the following:

- Must have the required L or Q clearance to pass the security gate.
- If access into any of the buildings is necessary, contact CMR Operations Management or the FOD for an escort.
- If responding to an emergency with SEO, ENV-CP staff will be considered part of the SEO response team, met at the access gate, and escorted to the spill site.

4.4.3 TA-3-66 SIGMA FACILITY ACCESS

For access to the Sigma facility (TA-3-66), perform the following:

- For non-emergency responses, obtain prior site-specific training and authorization or contact the FOD for personnel escort and contact the FOD Deployed Environmental Professional.
- For emergency response with SEO, ENV-CP staff will be considered part of the SEO response team, met at the access gate, and escorted to the spill site. Contact the FOD to ensure they are aware of the incident.

Spill Investigations	ENV-CP-QP-007	Page 8 of 12
_	Revision: 10	Effective Date: 09/30/15

4.5 REGULATORY SPILL REPORTING

If a spill is determined to be a threat to the environment or human health, regulatory and DOE notification may be necessary. Contacts and telephone numbers can be found on Attachment 1, ENV-CP Release Notification Phone List.

If a spill impacts a Solid Waste Management Unit (SWMU) or Area of Concern (AOC), contact ENV-CP and Environmental Remediation (ER) for possible additional notification requirements.

If ENV Division or designated SME personnel determine after a site inspection or verbal notification that a spill is non-reportable to DOE or applicable regulatory agencies, a LANL ENV-CP Unplanned Release Report must be completed (Attachment 2) and submitted to the ENV-CP SME for required documentation.

For ENV Division designated on-call personnel, follow guidance for spill reporting as described in ENV-DO-QP-101, *Environmental Reporting Requirements for Releases or Events*.

NOTE: On-call representatives are required to follow up in writing (email is sufficient) with the spills program lead regarding all releases during their on-call schedule. If no spills are reported in off-work hours, please confirm in writing with the spills program lead at the end of your on-call schedule.

For additional information concerning spill and unplanned discharge determination and notification requirements, contact the ENV-CP Water Quality Permitting and Compliance Team Leader.

5.0 DOCUMENT CONTROL/RECORDS MANAGEMENT

The following records generated as a result of this procedure are to be submitted in accordance with <u>ADESH-AP-006 Records Management Plan</u>.

- Field notebook documentation of the release including:
 - Time and date of the release
 - Time and date of ENV-CP notification
 - Location of the release
 - Source of the release(equipment, etc,)
 - Type of material released
 - Quantity of material released
 - If an impact to a watercourse or Potential Release Site occurred
 - Time release was stopped
 - Any immediate mitigating actions implemented to contain or control the release
- Any written report and verbal notification list generated should the release be deemed reportable.
- LANL ENV-CP Unplanned Release Report (Attachment 2) for non-reportable releases.

Spill Investigations	ENV-CP-QP-007	Page 9 of 12
	Revision: 10	Effective Date: 09/30/15

6.0 DEFINITIONS

AOC: Area of Concern

ER: Environmental Remediation

<u>Field Work</u>: Performance of Laboratory related activities in areas that are removed or isolated from an established populated base of operation (that is, where emergency support and medical assistance is not readily available.)

FOD: Facility Operations Division

NPDES: National Pollutant Discharge Elimination System

OJT: On the job training

PRS: Potential Release Site

SEO: Security and Emergency Operations

SOC Los Alamos: Security contractor for Los Alamos National Laboratory

SWMU: Solid Waste Management Unit

7.0 REFERENCES

None

8.0 ATTACHMENTS

Attachment 1- ENV-CP Release Notification Phone List

Attachment 2- LANL ENV-CP Unplanned Release Report

Spill Investigations	ENV-CP-QP-007	Page 10 of 12
	Revision: 10	Effective Date: 09/30/15

ATTACHMENT 1- ENV-CP RELEASE NOTIFICATION PHONE LIST

Los Alamos National Laboratory ENV-CP

_...

Release notification phone list

August 2015

(1)) Security and Emergency Operations		
	Emergency Management (SEO-EM)	667-6211	
(2)	ENV-ES Group Office	665-8855	
(3)	ENV-CP Group Office	667-0666	
(4)	ENV-DO	667-2211	
(5)	LANL Central Alarm Station (SOC-LA)	667-7080	
	L.A. Fire Department	667-4055	

New Mexico Environment Department

See Web address below

-		
(1)	NMED Emergency Hotline (24 hours a day)	827-9329
(2)	NMED Non-Emergency Hotline (During business hours)	476-6000
	NMED Non-Emergency Hotline (Voicemail; 24 hours a day)	1(866) 428-6535
(3)	NMED Surface Water Quality Bureau	827-0187
	Erin Trujillo	827-0418
(4)	NMED Ground Water Quality Bureau	827-2900
	Greg Huey	827-6891
	Steven Huddleson	827-2936
	Gerald Knutson	827-2996
(5)	NMED Hazardous Waste Bureau	476-6000
	Ruth Horowitz	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)	Gladys Gooden-Jackson	1(214) 655-7494

U.S. Department of Energy

(1) Gene Turner	667-5794

State Emergency Response Commission (SERC) Notification

New Mexico State Police	(505) 827-9300 (During business hours)
(Immediate Notification)	(505) 827-3476 (24 hours a day)
N NA 1 D 1 1 CH 1 1 C	

New Mexico Department of Homeland Security and Emergency

Management (Follow-up Notification) (505) 476-9600

National Response Center

U.S. Coast Guard National Response Center	1-800-424-8802
0.5. Coust Guara National Nesponse Center	1 000 424 0002

See NRC web address below for report form

Spill Investigations	ENV-CP-QP-007	Page 11 of 12	
	Revision: 10	Effective Date: 09/30/15	

New Mexico State Police

New Mexico State Police (505)827-9300 (During business hours)

(505) 827-3476 (24 hours a day)

Local Emergency Planning Committee (LEPC) LAPD

Philmont Taylor (505) 663-3511

On Call Environmental Contact for Releases Group Representatives for Notifications to External Agencies

Name	Group	Work	Pager	Cellular	Email address
		Phone		Phone	
Jake Meadows	ENV-CP	606-0185	664-1333	231-0460	jmeadows@lanl.gov
Mike Saladen	ENV-CP	665-6085		699-1284	saladen@lanl.gov
Mark Haagenstad	ENV-CP	665-2014		699-1733	mph@lanl.gov
Tim Zimmerly	ENV-CP	664-0105	664-1237	699-7621	tzimmer@lanl.gov
Terrill Lemke	ENV-CP	665-2397		699-0725	tlemke@lanl.gov

Web addresses:

NMED home page http://www.nmenv.state.nm.us

National Response Center home page http://www.nrc.uscg.mil/Default.aspx

Reportable Quantities web page http://homer.ornl.gov/rg/

Spill Investigations	ENV-CP-QP-007	Page 12 of 12	
-	Revision: 10	Effective Date: 09/30/15	

ATTACHMENT 2- LANL ENV-CP UNPLANNED RELEASE REPORT

Los Alamos National Laboratory Environmental Compliance Programs (ENV-CP) Unplanned Release Report

Form Completed By: Telep	phone:		Group:
Spill Details Spill	Owner	(Specify): □LANS, LLC	□Subcontractor:
Date of Spill/Date Spill Discovered:			
Location:			
Material Spilled:		Anti-freeze/coolant	☐ Gasoline
☐ Hydraulic Fluid		Steam Condensate Lubricants/oils	□ Other:
☐ Potable Water ☐ Diesel		Refrigerant Oil	
Volume Spilled:		Waste Volume Gen	nerated:
Source of Spill:		Hydraulic Line	□ Radiator
Vehicle ID:		Potable Water Line	□ Condensate Line
Equipment ID:		Fire Suppression System Fuel Tank	□ Other:
			taken to contain the spill, and steps/spill control led and describe actions taken to prevent spill
Total (II 20) (II (II (II (II (II (III (II		□ B = D = (-1)	
Did the spill enter or impact any of the		□ Floor Drain, if so please indic	cate affected facility
following? (Check as many as apply)	1:	☐ Watercourse/drainage area, if	
following? (Check as many as apply) RCRA Treatment Storage Disposal Faci	lity	□ Watercourse/drainage area, if	f so please indicate
following? (Check as many as apply)	lity	□ Watercourse/drainage area, if	
following? (Check as many as apply) RCRA Treatment Storage Disposal Faci RCRA Satellite Accumulation Area	lity	□ Watercourse/drainage area, if	f so please indicate
following? (Check as many as apply) RCRA Treatment Storage Disposal Faci RCRA Satellite Accumulation Area		□ Watercourse/drainage area, if □ Solid Waste Management Un	f so please indicate
following? (Check as many as apply) RCRA Treatment Storage Disposal Faci RCRA Satellite Accumulation Area RCRA <90 Day Storage Area Did the spill occur inside or outside a building	ng?	□ Watercourse/drainage area, if □ Solid Waste Management Un □ None □ Inside Concrete	f so please indicate nit/Area of Concern, if so please indicate Outside Asphalt
following? (Check as many as apply) RCRA Treatment Storage Disposal Faci RCRA Satellite Accumulation Area RCRA <90 Day Storage Area Did the spill occur inside or outside a building	ng?	□ Watercourse/drainage area, if □ Solid Waste Management Un □ None □ Inside	f so please indicate nit/Area of Concern, if so please indicate Outside Asphalt Graveled/Rocky Area
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following? (Check as many as apply) RCRA Treatment Storage Disposal Faci RCRA Satellite Accumulation Area RCRA <90 Day Storage Area Did the spill occur inside or outside a buildin Did the spill occur on: (Check as many as apply) Samples Collected: None Water	ag?	□ Watercourse/drainage area, if □ Solid Waste Management Un □ None □ Inside Concrete Carpeted Floor Tile Wooden floor/deck If san	f so please indicate iit/Area of Concern, if so please indicate Outside Asphalt Graveled/Rocky Area Soil/Vegetated Area Other: imples were collected, indicate analytical suite:
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following? (Check as many as apply) RCRA Treatment Storage Disposal Faci RCRA Satellite Accumulation Area RCRA <90 Day Storage Area Did the spill occur inside or outside a buildin Did the spill occur on: (Check as many as apply) Samples Collected: None Water Gertification I certify that I am knowledgeable about the information of the composition of	ag?	□ Watercourse/drainage area, if □ Solid Waste Management Un □ None □ Inside Concrete Carpeted Floor Tile Wooden floor/deck If san	f so please indicate nit/Area of Concern, if so please indicate Outside Asphalt Graveled/Rocky Area Soil/Vegetated Area Other: mples were collected, indicate analytical suite:
following? (Check as many as apply) RCRA Treatment Storage Disposal Faci RCRA Satellite Accumulation Area RCRA <90 Day Storage Area Did the spill occur inside or outside a buildin Did the spill occur on: (Check as many as apply) Samples Collected: None Water Certification certify that am knowledgeable about the information of Certifying Official:	ag?	□ Watercourse/drainage area, if □ Solid Waste Management Un □ None □ Inside Concrete Carpeted Floor Tile Wooden floor/deck If san	f so please indicate nit/Area of Concern, if so please indicate Outside Asphalt Graveled/Rocky Area Soil/Vegetated Area Other: mples were collected, indicate analytical suite:

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

EPC-CP-QP-2110	Revision: 0	• Los Alamos
Effective Date: 01/07/2020	Next Review Date: 01/07/2023	NATIONAL LABORATORY —— EST.1943 ————————————————————————————————————

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	<u> </u>	
	ı	Document Author	/Subject Matter Expert:	
Name:		Organization:	Signature:	Date:
Holly L. Wheeler		EPC-CP	Signature on File	1-6-2020
	Derivativ	e Classifier: 🛛 🕻	Jnclassified or	
Name:		Organization:	Signature:	Date:
Steven E. Wolfel		EPC-CP	Signature on File	1-6-2020
		_	• ••	
		Approva	al Signatures:	
EPC-CP Reviewer:		Organization:	Signature:	Date:
Terrill W. Lemke, Te	am Leader	EPC-CP	Signature on File	1-7-2020
EPC-CP RLM:		Organization:	Signature:	Date:
Taunia Van Valkenb	urg, 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

	Effective Date	
Document Number and Revision	[Document Control	
[Include revision number, beginning	Coordinator inserts	Description of Changes
with Revision 0]	effective date]	[List specific changes made since the previous revision]
EPC-CP-QP-2110, Rev. 0	01/07/2020	New document

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

Revis	ion H	istory	2
1.0	Intro	oduction	4
	1.1	Purpose	4
	1.2	Scope	
	1.3	Applicability	
2.0		autions and Limitations	
3.0	Prep	paring an MSGP Stormwater Pollution Prevention Plan	4
	3.1	Gathering Information for the SWPPP	5
	3.2	Preparing the SWPPP	
4.0	Mair	ntaining the MSGP SWPPP	
	4.1	Availability of the MSGP SWPPP	
	4.2	Additional Documentation Requirements	7
5.0	Revi	sing the MSGP SWPPP	
6.0	Trair	ning	9
7.0		ords	
8.0	Defi	nitions and Acronyms	10
	8.1	Definitions	
	8.2	Acronyms	
9.0	Refe	rences	
		chments	
		chment 1: EPC-CP-QP-2110 R0 Form 1, MSGP SWPPP Template Example	
		chment 2: MSGP SWPPP Review Guidance Checklist Example	
			_

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] <u>IF</u> 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] <u>IF</u> text is embedded as part of the line,

 <u>THEN</u> replace just the yellow highlighted text with appropriate information (e.g., delete <u>Sector XX-(Insert Sector Title)</u> and replace with <u>Sector P Land Transportation & Warehousing</u>).
- [4] Delete attachments that are not applicable to the active facility specific SWPPP.
- [5] Attach other documentation (e.g., Spill Prevention, Control and Countermeasure Plan, Environmental Management System, copies of relevant portions of documents) as necessary.
- [6] Send the draft SWPPP to the EPC-CP MSGP Program Lead and request a review.
 - **NOTE 1:** The EPC-CP MSGP Program Lead may delegate the review to personnel in the Storm Water Permitting/Compliance Team.

MSGP Program Lead or Designee

- [7] Review the SWPPP to ensure information required by the Permit is included.
 - [a] Encourage the use of the MSGP SWPPP Review Guidance Checklist as a best management practice to cross-check SWPPP content with the Permit. See checklist example in Attachment 2.
 - [b] Provide comments to the SWPPP Preparer.

SWPPP Preparer

- [8] The Preparer must resolve review comments with the MSGP Program Lead.
- [9] Obtain the signature of a duly authorized representative (refer to Appendix B, Subsection 11 of the Permit) on the certification statements associated with the SWPPP and attachments (refer to Attachment 9 of the MSGP SWPPP Template Example).
 - NOTE 2: The Review & Approval System for Scientific and Technical Information (RASSTI) system requires upload of only PDF documents. It is highly recommended that all final certifications obtained contain a written signature rather than electronic signature. The RASSTI system adds a cover page to the document containing the LA-UR number, which obviates all electronic signatures due to the document change.

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] <u>IF</u> any of the following documents are generated,

 <u>THEN</u> add the document to the facility SWPPP as soon as the document is generated and finalized (i.e., all signatures have been obtained).
 - A copy of the Notice of Intent to Discharge (NOI) submitted to EPA and correspondence exchanged between Triad, LLC and EPA specific to coverage under the permit;

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] <u>IF</u> any of the following conditions occur or are detected during an inspection, monitoring or other means,

<u>THEN</u> 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 ADSH-TPP-301, ADESH Training Program Plan. Other participating LANL groups may require training documentation pursuant to local procedures.

Contract personnel that execute the activities specified in this procedure will be qualified and trained as required by the Exhibit D and Exhibit F. In addition, contract personnel will be required to complete "self-study" (required reading) of this procedure.

7.0 RECORDS

MSGP SWPPPs are signed and certified by a duly authorized representative of the individual facilities. These completed documents are maintained at the permitted facility, managed by the facility's Records Management designated point-of-contact or document manager, and posted to the LANL public reading room. The MSGP team may retain a copy for reference purposes.

Below, are records generated as a result of implementing this procedure. Records generated are identified by title and type.

Record Title	QA Record	Non-QA Record
Stormwater Pollution Prevention Plan	\boxtimes	
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

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



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	TABLE OF CONTENTS			
PREFA	PREFACE			
1.0	FACILITY DESCRIPTION6			
1.1	Facility Information6			
1.2	Stormwater Pollution Prevention Team (PPT)7			
1.3	Site Description8			
1.4	General Location Map8			
1.5	Site Map8			
2.0	POTENTIAL POLLUTANT SOURCES			
2.0				
2.1	Potential Pollutants Associated with Industrial Activity9			
2.2	Spills and Leaks9			
2.3	Unauthorized Non-Stormwater Discharges10			
2.4	Salt Storage			
2.5	Historical Data Summary			
3.0	STORMWATER CONTROL MEASURES			
3.1	Non-Numeric Technology-Based Effluent Limits			
	3.1.1 Minimize Exposure			
	3.1.2 Good Housekeeping11			
	3.1.3 Maintenance 11			
	3.1.4 Spill Prevention and Response			
	3.1.6 Management of Runoff			
	3.1.7 Salt Storage Piles or Piles Containing Salt			
	3.1.8 Dust Generation and Vehicle Tracking of Industrial Materials			
3.2	Numeric Effluent Limitations Based on Effluent Limitations Guidelines			
3.3	Water Quality-Based Effluent Limitations and Water Quality Standards13			
4.0	SCHEDULES AND PROCEDURES			
4.1	Good Housekeeping			
4.2	Maintenance			
4.3	Spill Prevention and Response			
4.4	Erosion and Sediment Control			
4.5	Employee Training			
16	Poutine Escility Inspections and Quarterly Visual Assessments 15			

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

4.7	4.6.2	Routine Facility Inspections	16
5.0	DOCUM	MENTATION FOR ELIGIBILITY CONSIDERATIONS UNDER OTHER FEDERAL LAWS:	20
5.1	Endange	ered Species	20
5.2	Historic	Properties	20
6.0	CORREC	CTIVE ACTIONS AND DEADLINES	20
6.1	Immedia	ate Actions	21
6.2	Subsequ	uent Actions	21
6.3		ve Action Documentation	
7.0	ACRON	YMS	22
8.0		CERTIFICATION	
FIGUR		GENERAL LOCATION MAP	
FIGUR	EB:	MAP(S)	25
ATTAC	HMENT	1: NOTICE OF INTENT, SUPPORTING DOCUMENTATION, AND UPDATES	26
ATTAC	HMENT	2: SWPPP AMENDMENTS	27
ATTAC	HMENT	3: CERTIFICATION OF NO UNAUTHORIZED STORMWATER DISCHARGES	28
ATTAC	HMENT	4: DULY AUTHORIZED SIGNATORY MEMORANDUM	29
ATTAC	HMENT	5: DISCHARGE MONITORING REPORTS	30
ATTAC	HMENT	6: ANNUAL REPORTS	31
ATTAC	HMENT	7: ROUTINE FACILITY INSPECTIONS	32
ATTAC	HMENT	8: QUARTERLY VISUAL ASSESSMENTS	33
ATTAC	HMENT	9: CORRECTIVE ACTION DOCUMENTATION AND CERTIFICATION	34
ATTAC	HMENT	10: SCHEDULED MAINTENANCE LOG	35
ATTAC	HMENT	11: TRAINING DOCUMENTATION	36
ΔΤΤΔΟ	HMENT	12: MSGP (OR ACTIVE LIRL)	37

 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

	THREATENED AND ENDANGERED SPECIES HABITAT MANAGEMENT PLAN AMOS NATIONAL LABORATORY38
ATTACHMENT 14:	MSGP IPAC TRUST RESOURCES REPORT
ATTACHMENT 15:	EPC-CP-PIP-2101, NPDES MULTI-SECTOR GENERAL PERMIT 40
ATTACHMENT 16:	EPC-CP-QP-023, MSGP ROUTINE FACILITY INSPECTIONS
ATTACHMENT 17:	EPC-CP-QP- <mark>022</mark> , MSGP CORRECTIVE ACTIONS
ATTACHMENT 18:	EPC-CP-QP- <mark>064, MSGP STORMWATER VISUAL ASSESSMENTS</mark>
ATTACHMENT 19:	EPC-CP-QP-047, INSPECTING STORMWATER RUNOFF SAMPLERS AND
RETRIEVING	G SAMPLES FOR THE MSGP44
ATTACHMENT 20:	EPC-CP-QP-2106, PROCESSING MSGP STORMWATER SAMPLES 45
	EPC-DO-QP-101, ENVIRONMENTAL REPORTING REQUIREMENTS FOR
RELEASES O	PR EVENTS46
ATTACHMENT 22:	EPC-CP-QP-007, SPILL INVESTIGATIONS
	EPC-CP-QP-2110, MSGP STORMWATER POLLUTION PREVENTION PLAN
PKEPARATI	ON AND MAINTENANCE48
ATTACHMENT 24:	LOCAL PROCEDURE
ATTACHMENT 25:	LOCAL PROCEDURE50

 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)? ⊠Yes	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)? \Box Yes \Box 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:	The MSGP Program Lead is responsible for managing and
Name	administering the MSGP Program for all industrial facilities
Title, Organization	operated by Triad within Los Alamos National Laboratory. The
Title, Organization	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):	Responsible for day-to-day operations at the facility. Assists the
Name	DEP and EPC with inspections; spill reporting; implementing,
Title, Organization	installing and maintaining storm water controls (also known as
inde, Organization	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 runon and run-off.

2.1 Potential Pollutants Associated with Industrial Activity

List specific areas and activities that could potentially result is a release to the environment and the constituents that may be released. Include a list of any Solid Waste Management Units and Areas of Concern (also known as Consent Order Sites or Potential Release Sites) with a description of each and associated potential pollutants/contaminants.

2.2 Spills and Leaks

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	Outfall(s) Affected
Location	

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 empting drip pans, etc. Refer to Section 4.1 of this document for specific schedules for waste and recyclable material pickup and sweeping.

All site areas exposed to precipitation are walked down during daily operations and monthly routine facility inspections to ensure that the grounds are kept in an orderly condition. The outdoor metal storage areas are inspected to ensure all piping and metal raw material is off the ground on storage racks and covered, or stored inside buildings, sheds or transportable containers. Vehicle and forklift parking areas are inspected for leaks or spills as well as storage areas containing oil-filled equipment. The entire site, including loading areas and outfalls, are inspected for floatable debris, garbage, waste and all other potential pollutants. All dumpsters and roll-off bins are inspected to ensure they are closed.

3.1.3 Maintenance

Control measures at the facility will be kept in effective operating condition by the implementation of scheduled preventive maintenance, standard operating procedures (SOPs), engineering guidance, and manufacturer's specifications as applicable. If control measures need to be replaced or repaired to maintain compliance with the 2015 MSGP, necessary modifications will be made according to the timelines specified in the *Corrective Action and Deadlines* requirements of Section 6.0 of this SWPPP.

Deficient items identified during routine facility inspections, walk-downs, or by any other means of identification, will be documented on the routine facility inspection forms and entered into the MSGP CAR database. The condition requiring corrective action will remain open until proper maintenance or

 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.

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

 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 Frosion 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:

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-<mark>064, MSGP Stormwater Visual Assessments (Attachment 18).</mark>

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)

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

 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.



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 GroundsTA-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

<u>Document Reference Number</u>

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

ВМР	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

 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)		
	N Y	

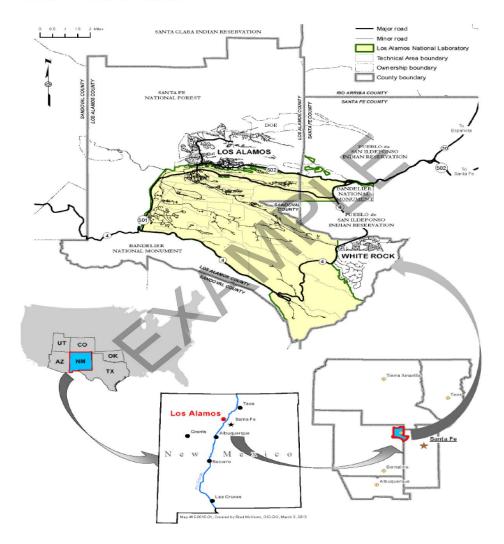
MSGP Stormwater Pollution
Prevention Plan Preparation and
Maintenance

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 <mark>X,</mark> 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.



MSGP Stormwater Pollution
Prevention Plan Preparation and
Maintenance

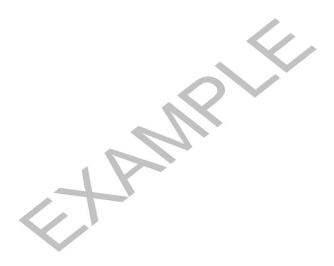
No: EPC-CP-QP-2110	Page 37 of 72	
Revision: 0	Effective Date: 01/07/2020	

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.



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



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.



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.



MSGP Stormwater Pollution
Prevention Plan Preparation and
Maintenance

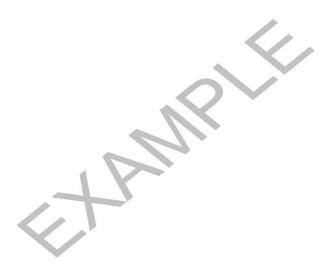
No: EPC-CP-QP-2110	Page 41 of 72
Revision: 0	Effective Date: 01/07/2020

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.



MSGP Stormwater Pollution
Prevention Plan Preparation and
Maintenance

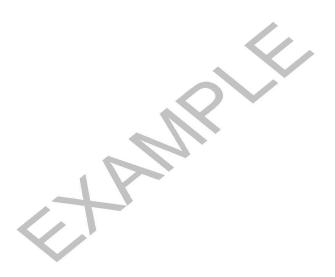
No: EPC-CP-QP-2110	Page 42 of 72
Revision: 0	Effective Date: 01/07/2020

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.



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.



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.)

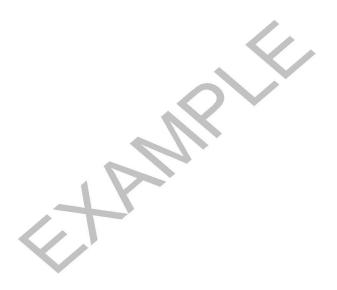
(Page 33 of 50)

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.



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.



 No: EPC-CP-QP-2110
 Page 46 of 72

 Revision: 0
 Effective Date: 01/07/2020

Attachment 1: EPC-CP-QP-2110 R0 Form 1, MSGP SWPPP Template Example (cont.)

(Page 35 of 50)

Insert Facility Name MSGP Stormwater Pollution Prevention Plan Document Reference Number Revision X, Date

ATTACHMENT 10: SCHEDULED MAINTENANCE LOG

SCHEDULED MAINTENANCE LOG

Control Measure or

	F		Author Talana Day
	Equipment Description	7 W - 7 7 .	Action Taken By (printed name & Z no.)
Date	(include location where appropriate)	Action Taken/Comments	(printed name & Z no.)
	4		
		Y	

MSGP Stormwater Pollution	
Prevention Plan Preparation and	
Maintenance	

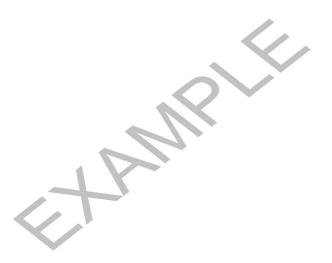
No: EPC-CP-QP-2110	Page 47 of 72
Revision: 0	Effective Date: 01/07/2020

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.



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)

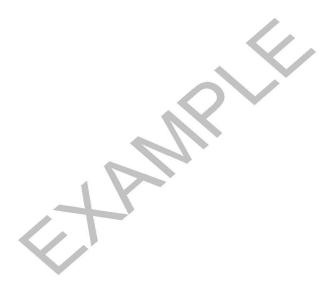
Insert Facility Name MSGP Stormwater Pollution Prevention Plan Document Reference Number Revision X, Date

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



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.)

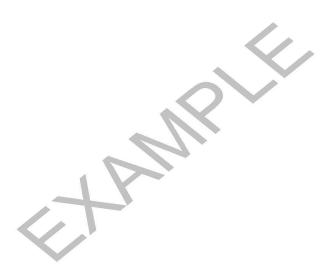
(Page 38 of 50)

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.



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 <mark>X</mark>, 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.



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.



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



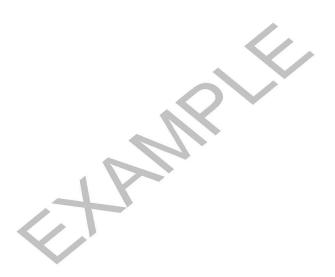
MSGP Stormwater Pollution		
Prevention Plan Preparation and		
Maintenance		

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



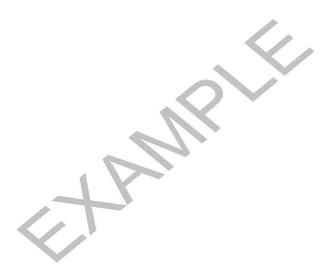
MSGP Stormwater Pollution		
Prevention Plan Preparation and		
Maintenance		

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



MSGP Stormwater Pollution
Prevention Plan Preparation and
Maintenance

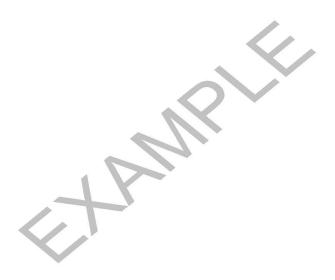
No: EPC-CP-QP-2110	Page 55 of 72
Revision: 0	Effective Date: 01/07/2020

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-<mark>047</mark>, INSPECTING STORMWATER RUNOFF SAMPLERS AND RETRIEVING SAMPLES FOR THE MSGP



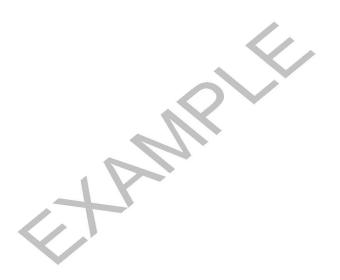
MSGP Stormwater Pollution
Prevention Plan Preparation and
Maintenance

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



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



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



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 <mark>X, Date</mark>

ATTACHMENT 23: EPC-CP-QP-2110, MSGP STORMWATER POLLUTION PREVENTION PLAN

PREPARATION AND MAINTENANCE



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.



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.



 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)

REQUIREMENT	YES/NO	NOTES
ution 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	ŀ	
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: 		

Page **1** of **11**

MSGP SWPPP Review Guidance Checklist

 No: EPC-CP-QP-2110
 Page 63 of 72

 Revision: 0
 Effective Date: 01/07/2020

MSGP SWPPP Review Guidance Checklist

Attachment 2: MSGP SWPPP Review Guidance Checklist Example (cont.)

(Page 2 of 11)

date the SWPPP was prepared or amended? discharges and the corresponding outfall(s) that would be affected by such spills and leaks identified in Are all pollutants or pollutant constituents (e.g., zinc, sulfuric acid, cleaning solvents, motor oil, diesel unloading, transportation, disposal or conveyance of any raw material, intermediate product, final Are areas described in the SWPPP where industrial material or activities are exposed to stormwater or done and does it include the following information? Has an evaluation for the presence of unauthorized non-stormwater discharges (see Part 1.1.3) been occurred at exposed areas, or that drained to a stormwater conveyance, in the three years prior to the Are all significant spills and leaks of oil or toxic or hazardous substances identified that actually Are areas where **potential** spills and leaks could occur that could contribute pollutants to stormwater prepared or amended. disposed and that have been exposed to stormwater in the three years prior to the date the SWPPP is NOTE 2: The list must include all pollutants/materials that have been handled, treated, stored, or gasoline, brake fluid, etc.) associated with each activity identified? product or waste product. final products, and waste products. Material handling activities include the storage, loading and machinery; raw material; industrial production and processes; and intermediate products; by-products; NOTE 1: Industrial material or activities include material handling equipment or activities; industrial from which allowable non-stormwater discharges originate? A list of the outfall or onsite drainages points that were directly observed during the evaluation the SWPPP? A description of the evaluation criteria used Date of the evaluation Vehicle and equipment maintenance and/or cleaning area quantities of pollutants Locations and sources of run-on to the site from adjacent property that contains significant Transfer areas for substances in bulk material, or by-products used or created by the site Immediate access roads used by carriers of raw materials, manufactured products, waste Processing and storage areas Locations used for the treatment, storage, or disposal of wastes Fueling station(s) Liquid storage tanks Loading/unloading areas YES/NO NOTES

Are the selection and design considerations for control measures to meet the following non-numeric

Does the SWPPP indicate how the control measure addresses the potential pollutant sources?

instances to minimize the discharge of pollutants.

Using treatment interceptors (e.g., swirl separators and sand filters) may be appropriate in some

Conserving and/or restoring riparian buffers will help protect streams from stormwater runoff and

improve water quality

impacts of erosive flows

Attenuating flow using open vegetated swales and natural depressions can reduce in-stream

taken to avoid ground water contamination

technology-based effluent limits (see Part 2.1.2) identified in the SWPPP?

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

No: EPC-CP-QP-2110	Page 64 of 72
Revision: 0	Effective Date: 01/07/2020

Does the SWPPP indicate whether the following control measure selection and design criteria were

Preventing stormwater from coming into contact with polluting materials is generally more

effective, and less costly, than trying to remove pollutants from stormwater

Attachment 2: MSGP SWPPP Review Guidance Checklist Example (cont.)

(Page 3 of 11)

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

Assessing the type and quantity of pollutants, including their potential to impact receiving water

isolation for minimizing pollutants in stormwater discharge

quality, is critical to designing effective control measures that will achieve the limits in this permit

Using control measures in combination which may be more effective than using control measures in

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 industrial purposes: is there documentation of the location of any salt storage piles used for deicing or other commercial The action(s) taken, such as a list of control measures used to eliminate unauthorized discharge(s) application was submitted for an unauthorized cooling water discharge. or documentation that a floor drain was sealed, re-routed to sanitary, or an NPDES permit YES/NO

MSGP SWPPP Review Guidance Checklist

Use grading, berming or curbing to prevent runoff of contaminated flows and divert run-on away

No: EPC-CP-QP-2110	Page 65 of 72
Revision: 0	Effective Date: 01/07/2020

MSGP SWPPP Review Guidance Checklist

Attachment 2: MSGP SWPPP Review Guidance Checklist Example (cont.)

(Page 4 of 11)

Is there language in the SWPPP indicating in instances where control measures need repair or Does the SWPPP contain language indicating immediate action must be taken to minimize pollutant Perform inspections and preventive maintenance of stormwater drainage, source controls, treatment replacement that the facility (or associated representatives thereof) must immediately take all discharges if control measures need routine maintenance? systems, and plant equipment and systems that could fail and result in contamination of stormwater You may include extra information, or you may just "cut-and-paste" the effluent limits verbatim into the SWPPP w/out Good housekeeping (all areas where potential pollutants are exposed to stormwater must be kept Maintenance (All industrial equipment, systems and control measures must be maintained in effective operating condition in order to minimize pollutant discharges) and immediately removing any accumulated dust at the base of the exterior baghouse.* Inspect and maintain baghouses at least quarterly to prevent the escape of dust from the system Diligently maintain non-structural control measures (e.g., keep spill response supplies available, Store materials in appropriate containers. Sweep or vacuum at regular intervals or wash down the area and collect and/or treat and properly Drain fluids from equipment and vehicles that will be decommissioned, and, for any equipment Perform all vehicle and/or equipment cleaning operations indoors, under cover, or in bermed Use spill overflow protection equipment; Store leaky vehicles and equipment indoors or, if stored outdoors, use drip pans and absorbents, Locate materials, equipment, and activities so that potential leaks and spills are contained or able Cleaning catch basins when the depth of debris reached two thirds (2/3) of the sump depth and and personnel appropriately trained) exposed areas free of such materials Minimize the potential for waste, garbage, and floatable debris to be discharged by keeping of the permit does not authorize dry weather discharges from dumpsters or roll off boxes.* lids and could leak, ensure that discharges have a control (e.g., secondary containment). Part 1.1.3 Keep all dumpster lids closed when not in use. For dumpsters and roll off boxes that do not have dispose of the wash down water. areas that prevent runoff and run-on and also that capture any overspray; and of pollutants; Clean up spills and leaks promptly using dry methods (e.g., absorbents) to prevent the discharge to be contained or diverted before discharge; and vehicles that will remain unused for extended periods of time, inspect at least monthly keeping the debris surface at least six inches below the lowest outlet pipe.*

Page 4 of 1

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	ES
reasonable steps (see Part 4.3.1 for definition) to prevent or minimize the discharge of pollutants until	_	
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?		
• 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		
- 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 close the SW/DDD indicate where the contact information is so that it is		
readily accessible and available?		
Erosion and Sediment Controls		
- Does the SWPPP identify how exposed soils will be stabilized to minimize pollutant discharges?		
- Does the SWPPP identify flow velocity dissipation devices placed at discharge locations to		
minimize channel and streambank erosion and scour in the immediate vicinity of discharge		
- Does the SWPPP identify structural and non-structural control measure to minimize the discharge		
	_	

Are the following employees identified as requiring training?

the MSGP Corrective Action Reporting database) identified?

notification procedures?

Are procedures included in the SWPPP for preventing and responding to spills and leaks, including

Is there a schedule or frequency for maintaining all control measures?

Are clean-up equipment, procedures and spill logs (i.e., reportable and non-reportable spill reports and

Are control measures for material handling and storage identified?

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)

repair) for all control measures included in the SWPPP to avoid situations that may result in leaks, Are preventative maintenance procedures (including regular inspections, testing, maintenance and Does the SWPPP contain a schedule or convention used for determining when pickup or disposal of Are the benchmark values (i.e., the Lowest New Mexico Water Quality Standard) listed in MSGF Are backup practices in place should a runoff event occur while a control measure is off line? waste materials occurs? Section 9.6.2.1 identified in the SWPPP? Are effluent limitations identified for the Sector D facility (Asphalt Paving) (see Part 8.D.4)? spills, and other releases? Schedules and Procedures - Control Measures 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) Control Measures to Meet Numeric Effluent Limitations Guidelines-Based Limits (see Part 2.1.3 and Part 8 Salt Storage Piles or Piles Containing Salt - Does the SWPPP identify how salt piles are enclosed or generation and off-site tracking of raw, final, or waste materials must be minimized in order to Dust Generation and Vehicle Tracking of Industrial Materials - Does the SWPPP indicate dust Non-Stormwater Discharges - Does the SWPPP indicate that personnel will evaluate the site for Management of Runoff - Does the SWPPP identify how stormwater runoff is diverted, infiltrated minimize pollutant discharges?) non-stormwater discharges not explicitly authorized in Part 1.1.3 or covered by another NPDES reused, contained, or otherwise reduced to minimize pollutants in the discharge? permit and eliminate the discharge?) If polymers and/or other chemical treatments are used for dust control or stabilization, does the materials from the salt pile? Are controls in place to minimize exposure to stormwater resulting from adding to or removing SWPPP must identify the polymers and/or chemicals used and the purpose? YES/NO NOTES

MSGP SWPPP Review Guidance Checklist

 No: EPC-CP-QP-2110
 Page 68 of 72

 Revision: 0
 Effective Date: 01/07/2020

MSGP SWPPP Review Guidance Checklist

Attachment 2: MSGP SWPPP Review Guidance Checklist Example (cont.)

(Page 7 of 11)

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		
Illaliageillein 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		
Are parameters for sampling and the frequency of sampling for each parameter listed?		

Page 7 of 11

No: EPC-CP-QP-2110	Page 69 of 72
Revision: 0	Effective Date: 01/07/2020

MSGP SWPPP Review Guidance Checklist

Attachment 2: MSGP SWPPP Review Guidance Checklist Example (cont.)

(Page 8 of 11)

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). 		

Page **8** of **11**

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?

Is the Annual Report signed by a duly authorized representative (per Part B.11)?

Is the SWPPP signed and dated by a duly authorized representative (per Part B.11)?

benchmark monitoring, and/or impaired waters monitoring.

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

All Discharge Monitoring Reports and Annual Reports

criteria for historic property preservation (Criterion A, B, C or D) (see Part 1.1.4.6).

Documentation supporting the determination that stormwater discharges, allowable non-

that is designated as "critical habitat" under the Endangered Species Act (see Part 1.1.4.5).

stormwater discharges, and stormwater discharge-related activities meet one of the eligibility

Documentation supporting that stormwater discharges, allowable non-stormwater discharges, and

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 sucl pollutants were not detected in your discharge or were solely attributable to natural background

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

A determination from EPA that benchmark monitoring can be discontinued because the

exceedance was due to run-on; OR

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

sources. (see Part 6.2.4.1)

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)

Corrective action documentation (see Part 4.4) Documentation of any benchmark exceedances and the type of response to the exceedance reason for the deviations (e.g., adverse weather or it was impracticable to collect samples within the Description of any deviations from the schedule for visual assessments and/or monitoring, and the employed including the following: first 30 minutes of a measurable storm event) (see Parts 3.2.3 and 6.1.5) A finding that the exceedance was due to natural background pollutant levels; The corrective action taken; YES/NO NOTES

MSGP SWPPP Review Guidance Checklist

Page **9** of **11**

No: EPC-CP-QP-2110	Page 71 of 72
Revision: 0	Effective Date: 01/07/2020

MSGP SWPPP Review Guidance Checklist

Attachment 2: MSGP SWPPP Review Guidance Checklist Example (cont.)

(Page 10 of 11)

REQUIREMENT 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.	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 	
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.	
 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 UKL provided in the NO!? 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)

In the case of leaks and spills, were response actions, date/time of clean up, notification, etc.	Was immediate action taken to minimize or prevent the discharge of pollutants?	Is the date the corrective action was identified captured?	Is the condition triggering the need for the corrective action identified?	Are corrective actions documented within 24 nours of becoming aware of such conditions	Are corrections actions documented within 21 hours of becoming aware of such condition?	Corrective Actions	NOI" form no later than 45 days after conducting the final routine facility inspection for the year?	Are modifications to the SWPPP information required in the four bullets above submitted on a "Change	REQUIREMENT	
									YES/NO	
									NOTES	
	In the case of leaks and spills, were response actions, date/time of clean up, notification, etc.	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.	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.	Is the conductor triggering the need for the corrective action identified captured? 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.	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.	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.	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.	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.	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.	YES/NO

MSGP SWPPP Review Guidance Checklist

ATTACHMENT 24: SPILL PREVENTION CONTROL AND COUNTERMEASURES PLAN PREPARED FOR: TECHNICAL AREA-3 POWER AND STEAM PLANT

SPILL PREVENTION CONTROL AND COUNTERMEASURES PLAN

PREPARED FOR:

TECHNICAL AREA-3 POWER AND STEAM PLANT

Los Alamos National Laboratory



Prepared By: Utilities and Institutional Facilities Los Alamos National Laboratory Los Alamos, NM 87544 (505) 667-9462

In Conjunction with:

Environmental Protection and Compliance-Environmental Compliance Programs (EPC-CP)

Revision 0: May 2000

Revision 1: February 2002 Revision 2: September 2004 Revision 3: November 2007 Revision 4: January 2009 Revision 5: June 2011 Revision 6: June 2016

LA-UR-16-23695

TABLE OF CONTENTS

Tab	le of C	onten	ts	i
Gen	eral R	equire	ements Cross Reference	iii
CEF	RTIFIC	ATION	l	v
Mar	nagem	ent Ap	proval	vii
Spil	l Prev	ention	Control And Countermeasure Plan Review Page	ix
1.0	intro	ductio	n	1
	1.1. 1.2. 1.3.	FACIL	Record Keeping Training	
2.0.	Facili	ity Des	scription	8
	2.1.2.2.2.3.2.4.2.5.2.6.2.7.	SECU SECO FACIL FACIL FACIL	/EGROUND STORAGE TANKS	
3.0.	Spills			
	3.1 3.2.		. HISTORY AND POTENTIAL SPILL PREDICTIONS	
Арр	endix A	۹ L	isting of Associated Standards and Procedures	
Арр	endix I	3 (Certification of the Applicability of the Substantial Harm Criteria	
Арр	endix (C1 \	/isual Inspection Reports	
Арр	endix (C2 (Certified Inspection Reports	
App	endix [T C	raining Records	
Арр	endix I	Ξ Α	Amendment Log	
Арр	endix l	F F	Facility Diagrams and Other Information	
Арр	endix (G (Dil Spill Tracking Form	
Арр	endix l	H 5	Storm Water Discharge Record and Form	

GENERAL REQUIREMENTS CROSS REFERENCE

2008 Amended SPCC Rule	Description of Section	SPCC Section
§ 112.7	General requirements for SPCC Plans for all facilities and all oil types.	Introduction
112.7(a.1, 2)	Discussion of facility's conformance with rule requirements; deviations from Plan requirements	1.1 Conformance
112.7(a.3.i, iii)	Facility characteristics that must be described in the Plan; facility diagram requirements expanded.	Section 2: Facility Description; Tank/Generator and Secondary Containment Description, Appendix F
112.7(a.3.ii, iv, v, vi; a.4; a.5)	Spill response and reporting information in the Plan; emergency procedures.	Section 3: Spill Prevention, Response and Reporting and Appendix G
§ 112.7(b)	Fault analysis.	3.1 Spill History and Potential Spill Predictions
§ 112.7(c)(1)	Amended secondary containment scope clarification; additional prevention systems	2.1, and 2.2 Tank/Generator and Secondary Containment Description
§ 112.7(d)	Contingency planning.	N/A
§ 112.7(e)	Inspections, tests, and records.	1.3.1 Inspections and 1.3.2 Recordkeeping
§ 112.7(f)	Employee training and discharge prevention procedures.	1.3.3 Training
§ 112.7(g)	Amended security (excluding oil production facilities) requirements.	2.3 Security
§ 112.7(h)	Loading/unloading areas (excluding offshore facilities) redefined as "racks".	2.4 Facility Transfer Operations and 2.6 Fail-Safe Engineering
§ 112.7(i)	Brittle fracture evaluation requirements.	1.3.1 Inspections
§ 112.7(j)	Conformance with State requirements.	1.1 Conformance
§ 112.8 § 112.12	Requirements for onshore facilities (excluding production facilities).	Throughout Plan
§ 112.8(a)§ 112.12(a)	General and specific requirements.	Throughout Plan
§ 112.8(b) § 112.12(b)	Facility drainage.	Section 2: Tank and Secondary Containment Description
112.8(c.1,2,4, 5,7, 11) 112.12(c.1, 2,4, 5, 7, 11)	Bulk storage containers.	2.1 Tank/Generator and Secondary Containment Description
112.8(c.3), 112.12(c.3)	Bulk storage containers.	2.3 Secondary Containment Drainage Operations
112.8(c.6 & 10) 112.12(c.6 & 10)	Amended bulk storage container integrity testing requirements.	1.3.1 Inspections
112.8(c.8) 112.12(c.8)	Bulk storage containers.	2.4 Facility Transfer Operations and 2.6 Fail-Safe Engineering
112.8(c.9) 112.12(c.9)	Bulk storage containers.	N/A
112.8(d.1) 112.12(d.1)	Facility transfer operations, pumping, and facility process.	2.1 Tank/Generator and Secondary Containment Description
112.8(d.3 & 5) 112.12(d.3 & 5)	Facility transfer operations, pumping, and facility process.	2.4 Fail-Safe Engineering and Transfer Operations
112.8(d.4) 112.12(c.4)	Facility transfer operations, pumping, and facility process.	1.3.1 Inspections
§ 112.9, § 112.13	Requirements for onshore production facilities.	N/A
§ 112.10 § 112.14	Requirements for onshore oil drilling and workover facilities.	N/A
§ 112.11 § 112.15	Requirements for offshore oil drilling, production, or workover facilities.	N/A
§ 112.20(e)	Certification of Substantial Harm Determination	Appendix B

CERTIFICATION

This Plan was developed pursuant to provisions of the federal regulation for oil pollution prevention, 40 CFR Part 112. Its purpose is to provide spill prevention and response measures to prevent the pollution of navigable waters from oil related spills.

In accordance with 40 CFR Part 112.3 (d), this Plan has been reviewed and certified by a Registered Professional Engineer (PE). By means of this certification, the engineer, having examined the facility or having an agent examine the facility, and being familiar with the provisions of this regulation, attests that the Plan has been prepared in accordance with good engineering practice, including consideration of applicable industry standards, and with the requirements of Part 112. Procedures for required inspections and testing have been established and this Plan is adequate for the facility.

Certified by:		D)ate:	
	Paul R. Parker			
	Registered Professional Engineer			

MANAGEMENT APPROVAL

This Plan has the full appro	oval of management at a	a level with authority to o	ommit the necessary	resources.
The owner/operator will full	y implement this Plan in	accordance with the re	quirements of 40 CFF	R Part 112.

Facility Owner	acility Owner Approval:		
Approved by:		Date:	
	Lawrence V. Chavez Operations Manager UI-OPS		

SPILL PREVENTION CONTROL AND COUNTERMEASURE PLAN REVIEW PAGE

In accordance with 40 CFR Part 112.5(b), a review and evaluation of this SPCC Plan is conducted at least once every five years. As a result of this review and evaluation, the SPCC Plan will be amended within six months of the review to include more effective prevention and control technology if: (1) such technology will significantly reduce the likelihood of a spill event from the facility, and (2) if such technology has been field proven at the time of review. Any amendment to the SPCC Plan shall be certified by a Professional Engineer within six months after a change in the facility design, construction, operation, or maintenance occurs which materially affects the facility's potential for the discharge of oil into or upon the navigable waters of the United States or adjoining shorelines. A Professional Engineer need not certify non-technical amendments.

I have completed review and evaluation of the SPCC Plan and will or will not amend the plan as indicated below.

Review Dates	Signature	Name	Title	Amended & Stamped (yes/no)
April 2016		Albert Dye	SPCC Program Lead	Yes

1.0 INTRODUCTION

The Spill Prevention Control and Countermeasure (SPCC) Plan is a requirement of the Oil Pollution Prevention regulation, 40 CFR Part 112. This plan has been developed to comply with requirements of the regulations published August 2002 and the December 2008 Amendments to the SPCC Rule. 40 CFR 112.1(d)(2)(ii) requires that facilities that have an aggregate aboveground storage capacity of 1,320 gallons or greater of oil, including all containers 55 gallons or greater, maintain a SPCC Plan. The intent of the SPCC Plan is to prevent oil related spills from polluting navigable waters of the U.S. through the implementation of adequate prevention and response measures. Under SPCC regulations, Los Alamos National Laboratory (LANL) is classified as a bulk storage facility. This Plan has been developed to meet regulatory requirements under the jurisdiction of the United States Environmental Protection Agency (EPA) and surface water protection requirements established by the New Mexico Environment Department (NMED). With regard to LANL, navigable waters of the U.S. include all canyons, arroyos, streams, and rivers within and surrounding LANL Technical Areas (TAs).

Due to LANL's diverse activities and changing conditions, a single Plan incorporating all LANL facilities subject to SPCC requirements is impractical. SPCC locations are addressed according to specific facility boundaries within LANL as determined by management and funding origination. The Facility Operations Director (FOD) or the facility tenant, with approval from the Responsible Associate Director, develops, implements, and maintains SPCC Plans for the specific location(s) within their stewardship. The Environmental Protection and Compliance - Compliance Programs Group (EPC-CP) is the LANL organization tasked with providing SPCC regulatory support for LANL facilities with SPCC plans. This SPCC Plan addresses the TA-3 Power Plant facility, which is a steam power plant that provides electrical power and steam to LANL. Covered by this Plan are the following petroleum-storing units:

- Aboveground Storage Tank (AST) #26 (gross volume 172,700 gallons, stores #2 fuel oil) was drained of oil in May 2010 and was cleaned and permanently closed, and abandoned in place in May 2011.
- AST Tank #2382 (formerly #779) (gross volume 230,300 gallons, stores #2 fuel oil).
- 1.25 Megawatt Stand-by Generator, TA-3-1404 (gross volume 1,408 gallons, stores #2 fuel oil).
- Three sumps (two 448-gallon units, one 680-gallon unit; store lube oil).
- Three oil purification units (150 gallons each, store lube oil).
- Two sump feeder oil storage tanks: TO-1,TO-2 (gross volumes: 700-gallon tank, 860-gallon tank; store lube oil.
- Two oil-filled operational equipment containers (gross volumes: 240-gallons, 1860-gallons; store lube oil).
- Drum storage area (variable quantities, stores oil and fuel).
- Piping associated with the above tanks, generator, sumps, purification units, and sump feeders.
- Transformers (2100, 03-2107, 03-2108, 03-2109, 03-2111, 03-2428, 03-2516, 03-2591, 03-2592 and substation transformers 03-0144, 03-232 and 03-2384.

1.1. Conformance

This SPCC Plan and facility conform to the requirements of 40 CFR Part 112 to the fullest extent possible. The facility has appropriate spill prevention, reporting, and response measures in place. Tanks are appropriate for the volumes and contents stored. There is adequate security, and procedures for inspections, testing, and records, and training have been developed. Certified ultrasonic thickness (UT) inspections for tanks #26 and #2382 were last completed on May 16, 2002 as a baseline on the tanks, in November 2008 and again in December 2013 (tank #2382 only) to establish the corrosion rate analysis. Integrity testing on each of the floor bottoms was completed in April 2003 and the floor thicknesses are within acceptable limits. Pressure tests on the underground piping fuel oil supply and return lines are performed annually and have shown no signs of leaking. An initial tank inspection was performed during the installation of AST #2382, and one may have been done at the installation of AST #26 but no records are available.

A listing of standards that apply to this facility are included in Appendix A. The Certification of the Applicability of Substantial Harm Criteria is included in Appendix B.

Deviations from requirements include:

• The volume of the secondary containment for AST#2382 may be insufficient to contain the gross volume contents of the tank and freeboard to contain precipitation as required under 40 CFR 112.9 (c) (2). However, procedures are in place to limit the maximum fill volume for AST #2382 so as not to exceed 179,300 gallons (or a maximum diesel level of 24 ft 10 inches). Based on hand measurements and calculations, the volume of the secondary containment is adequate to contain 179,300 gallons. Since September 2002, the facility has operated within these limits and will continue to do so.

In accordance with 40 CFR 112.5 (b), the following improvement to ensure continued compliance are to be completed within six months of the effective date of this plan amendment:

• Section 40 CFR 112.7(c) requires earthen secondary containment structures to be sufficiently impervious to contain oil such that discharges from a primary containment system (tank) will not escape the secondary containment system before cleanup occurs. A recurring presence of gopher burrows in the tank #2382 earthen secondary containment structure may have comprised the earthen structure's ability to remain sufficiently impervious. An engineering study and report on the impact of gopher activity to the tank #2382 secondary containment structure's ability to be sufficiently impervious is to be completed within six months of the approval date of the SPCC plan renewal. The study report is to include corrective actions, if needed, to ensure the containment structure is structurally sound and is sufficiently impervious to prevent the escape of liquids before cleanup occurs. If the study identifies needed corrective actions, this SPCC plan must be amended as required by 40 CFR 112.5 (a) within six months of completion of the study to include the corrective actions. As also required by 40 CFR 112.5 (a), the corrective actions are to be implemented as soon as possible but no later than six months after amending this SPCC plan.

In addition to Federal regulations, this Plan complies with the New Mexico Water Quality Control Commission Regulations (NMWQCC 20 NMAC 6.2) and the New Mexico Environment Department (NMED) Petroleum Storage Tank Bureau Regulations (20 NMAC 5.0). State water quality standards are considered when determining procedures for secondary containment drainage. All aboveground storage tanks containing petroleum products that are between 1,320 gallons and 55,000 gallons are required to be registered with NMED in accordance with state regulations. At the time this document was prepared, the facility has one tank, 03-1404, registered with NMED but #2382 is exempt from the NMED 20 NMAC 5.0 regulation.

In addition to required initial SPCC training for all oil-handling personnel working at the Power Plant, site specific SPCC training is conducted at the facility annually. The TA-3 Power and Steam Plant fulfills requirements for security, training, record keeping, spill reporting, facility loading/unloading, and inspections.

1.2. Facility Owner & Operator

Facility Owner/Operator

Utilities and Institutional Facilities (UI) FOD Los Alamos National Security (LANS) Los Alamos National Laboratory Los Alamos, NM 87545

Facility Contacts

Name	Phone	Title
Andrew Erickson	665-0106	UI FOD
Pablo C De Vaca	699-8226	Operations Specialist
Armond Stanley	665-1064	Maintenance Engineer
Cliff Heintschel	699-1605	Deployed Environmental Professional

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1.3. Management Responsibilities

The UI FOD is accountable for SPCC requirements applicable to his or her facility and has responsibility for developing, implementing, enforcing, and maintaining the SPCC Plan requirements. The FOD may also delegate authority and responsibility to other members of Utilities Division to ensure that the record keeping, Plan amendments, training, spill response and reporting, and inspections are properly completed and submitted to him/her for approval. The complete SPCC Plan with original signatures of the FOD is located in TA-3 Power Plant Building 22.

SPCC Responsibilities

		EPC-CP	UI-FOD
General	Prepare SPCC to meet regulatory requirements	Χ	
	Approve SPCC		Χ
	Implement SPCC		X X
	Approve physical changes needed to implement SPCC		X
	Provide oversight	Χ	X X
	Leak and spill cleanup and disposal, provide spill information to Environmental Protection and Compliance - Compliance Programs Group (EPC-CP), update spill log in Plan		Х
	Spill reporting to state and federal regulators	Χ	
Inspections	Provide qualified personnel to perform and write monthly SPCC walk around inspections		X
	Ensure annual physical inspections of tanks are performed.		Х
	Provide qualified personnel to perform and write annual SPCC inspections	Х	
	Implement corrective actions noted in inspections		Χ
Recordkeeping	Maintain inspections in onsite SPCC		X
	Maintain onsite training records for periodic briefings or Lessons Learned		X
	Update spill tracking form		X
	Review SPCC every five years	Х	X
Training	Provide annual training that meets SPCC regulatory requirements	Χ	
	Ensure all oil handling personnel and designated persons accountable for discharge prevention attend annual training		Х
Plan Amendment	Provide information on changes to design, construction, operation or maintenance	Х	X
	Amend Plan when spill or other change in facility occurs	Х	
	Implement changes to plan within 6 months of change to facility		X

1.3.1. Inspections

Inspections associated with the TA-3 Power and Steam Plant are visual inspections including facility walk-around inspections (daily and monthly), spill control material inventory, annual SPCC walk-around inspections, SPCC related training records, and certified inspections including integrity testing, annual

pressure testing of the underground piping, and brittle failure and catastrophe inspections. Descriptions for each are included below.

Table X: Inspection Summary

Туре	Frequency	Inspector
Facility Walk-Around Inspections	Daily	Plant Operators
Monthly SPCC	Monthly	Deployed Environmental Professionals
Annual SPCC	Annual	EPC-CP
Certified: I tank	5 to 20 year or as needed	Certified STI001/API 653 LANL inspectors or subcontractor certified vendors.
Brittle Failure	As needed, following repair, alteration or reconstruction	Certified STI001/API 653 LANL inspectors or subcontractor certified vendors.
Pressure Testing of Underground Piping	Annual	Plant OperationMaintenance Engineer
#2382 tank bottom and pipeline cathodic protection system testing	Annual	LANL certified corrosion protection technician
Presence of water in #2382	Once every three years	Utilities Environmental Engineer and Maintenance and Site Services Division (MSS)

Visual Inspections:

Facility Walk-Around Inspections: Formal walk-around inspections are visual inspections conducted by the Plant Operations Specilist and/ or designee. These inspections are conducted daily. The inspections are conducted to observe the conditions of the tank shells, secondary containment, tank fuel oil levels, foundations and supports, piping, pumps, valves, oil, cathodic protection ground wires, sumps, gauges, leaking or bulging drums, access to drum areas, proper drum labeling and support rack condition, water accumulations in secondary containment areas, and general good housekeeping practices. Any leaks or potential problems are brought to the attention of the Spill Coordinator and the Cogen & CGTG Operations Specialist to evaluate the need for response and make any necessary corrections. Additionally, the tanks are visually inspected as part of the annual SWPP Plan compliance evaluations. The tank levels are checked and inventory verified at least monthly as described in Section 2.6. Accurate and up-to-date drawings of the ASTs and the secondary containment units are maintained by the facility.

General Operator Observations: Power plant operations staff also makes general operator observations. **Each day**, staff walks around the SPCC area as part of their routine operations and preventive maintenance program to check the plant equipment and facility grounds. During these checks, potential problems and maintenance needs at the fuel tanks and transfer area are identified, including spills or leaks, the conditions and level of water contained in berms, obvious problems with tanks or containment structures, and general safety condition at the facility. Records of these inspections are kept in the Power Plant Control Room. Potential problems are brought to the attention of the Spill Coordinator and the Cogen & CGTG Operations Specialist for evaluation and correction. Facility representatives conduct periodic and unscheduled Facility Walk-Around Inspections of the facility. Once each three years, water is checked for in tank #2382 in accordance with UI Maintenance Procedure UI-PROC-76-86-013 "Remove Water from Fuel Oil Storage – 36 Month Frequency" The inspection reports are kept with the UI records program.

Spill Control Material Inventory: Spill control material stores are inventoried by plant personnel annually to assure that the proper materials are available in sufficient quantity and of sufficient quality to minimize the spread of oil products in the case of a spill prior to the arrival of response teams.

SPCC Walk-Around inspections: SPCC inspections are performed monthly by the DESHS-UIS Deployed Environmental Professional and annually by EPC-CP personnel to assess compliance with the SPCC Plan including recordkeeping, changes to the facility, the condition of the tanks, piping and associated equipment, and the secondary containment units. SPCC inspections are performed monthly using the SPCC Walk-Around Inspection Form located in Appendix C1 and identify the date the inspection was performed, facility/structure conditions, identified deficiencies and include the signature of the inspector.

Certified Inspections:

Brittle Failure and Catastrophe Inspections

If the AST undergoes a repair, alteration, reconstruction, or a change in service that might affect the risk of a discharge or failure due to brittle fracture or other catastrophe, the container will be inspected by a API-certified inspector and repaired or replaced based on the API inspector's recommendations.

Integrity Testing

Integrity testing incorporates both visual and non-destructive inspection to determine the structural integrity of a storage tank, its associated piping, and its support structures. American Petroleum Institute Standard 653 is the primary U.S. industry standard for storage tank inspection and testing, and such testing is conducted by an API certified inspector. Records associated with integrity testing include all examinations and tests, conditions found, thickness measurements, settlement measurements, repairs/alterations, and recommendations.

Testing interval for each of the ASTs and piping will be primarily derived from the service history of the tank, the container size and design, and manufacturer's recommendation. In accordance with API 653, a formal visual external inspection shall be performed by a qualified inspector at least every five years or at the quarter corrosion-rate life of the shell, whichever is less. Future internal inspection intervals will be governed by the measured or anticipated bottom corrosion rate and the calculations for minimum required thickness of tank bottoms. In no case, however, shall the inspection interval exceed 20 years. In addition, integrity testing will be performed whenever material repairs are made. Leak testing of the piping and valves shall be performed in association with all integrity testing and at the time of installation, modification, construction, relocation, or replacement.

Tests were performed in May and June of 2002 on AST #26 and AST #2382 following the guidelines of 40 CFR 112 and API Standards 653 and 650. An in-service floor (UT insp.) and roof inspection was completed on AST's #26 and #2382 in April of 2003. Corrosion rates for the shell and roof of both tanks are established and are included in the tables located within Appendix C. The report recommended external inspections be conducted every five years and the next internal inspection be conducted within twenty years. External inspections, and UT readings on tank #2382, were completed in November 2008 and in December 2013. The next external inspection is due in 2018. The reports for both AST's #26 and #2382 indicated that the tanks have an expected life in excess of 20 years. Floor elevation results for both tanks did not reveal excessive settlement deviation. API Standard 653 Section 6.4.2.1 Inspection states "The actual inspection interval shall be set to ensure that the bottom plate minimum thicknesses at the next inspection are not less than the values listed in Table 6-1. In no case, however, shall the internal inspection interval exceed 20 years". The next internal floor inspection should be completed in or before 2023.

An evaluation and external inspection was also completed in March 1997, following the guidelines of 40 CFR 112 and API Standard 653 for AST #26. Integrity testing for AST #2382 was conducted in 1998 in accordance with API 650. The standby generator was placed on the site in September 2002 and has not yet required testing.

An internal API-653 inspection was completed on the 700 gallon sump feeder oil storage tank TO-1 in February 2016. The inspection noted some internal corrosion on the tank bottom and some thinning of the bottom plate. The report recommended an engineering evaluation be conducted prior to the tank being used beyond April 2023.

Pressure Testing of Underground Piping

Pressure testing of the underground fuel oil supply and return lines is completed annually. The lines are pressure tested to 250 psig to confirm integrity and test pressures are recorded using a pressure recorder. The past pressure recorder tests indicated no leaks have occurred along the supply and return lines. Annual inspections for underground piping containing a regulated substance are done in accordance with UI Maintenance Procedure UI-PROC-76-71-510 "Underground Pressure Testing of Fuel Oil Lines". Pneumatic and hydrostatic testing of the underground piping was first performed in 1992, at the time the line was replaced.

Cathodic Protection Testing of Fuel Oil Tank and Underground Piping

The cathodic protection system for the fuel oil tank bottom and underground piping is inspected annually by a certified corrosion technician in accordance with UI Maintenance Procedure UI-PROC-76-71-500 "Inspection of Cathodic Protection on Aboveground Storage Tanks and Fuel Oil Lines".

Other Inspections:

Fuel Level Monitoring of #2382

Tank inventories for AST #2382 are monitored with a continuous signal into the control room and locally at the tank. The signal is self-corrected for temperature by measuring the static pressure, which directly relates to the mass of oil. These values are computer- logged every 2 minutes. The tank is also equipped with an electronic depth gauge which reads out in the control room and locally. In the event that the electronic signal is not available, the next available option is to manually measure the depth of liquid fuel in the tank. Values from the local display at the tank are also recorded on the daily walk-around inspection form. Administrative procedures are in place to minimize chances of a release during transfer (UI operations procedure UI-PROC-66-20-170 "Fuel Oil Delivery and Reloading – TA-03 Power Plant"). The tank volume is also measured before and after fuel oil burning operations and levels recorded in the operator's daily log book.

1.3.2. Record Keeping

As required by 40 CFR 112.3(e), the SPCC Plan is maintained at the facility. Additionally, inspection procedures, signed inspections, drainage records, spill reports, training records, and integrity testing records are retained as part of this SPCC Plan at the facility for a minimum of three years. Documents are forwarded to the Records Management Team to be retained in accordance with Department of Energy requirements.

- Facility Walk-Around Inspections (Monthly) -- maintained in the DEP's office in building TA-3-1437.
- General Operator Observations (Daily) -- maintained at TA-3-22 control room and or electronically.
- Operations scheduled Facility Walk-Around inspection results are maintained in TA-3-22 control room.
- Spill Control Material Inventory (annually) kept in the TA-3-22 control room.
- Completed SPCC inspection reports (monthly and annual) -- kept in Appendix C1.
- Integrity Testing Reports and other Certified Inspections Reports maintained in Appendix C3.
- Fuel Level Monitoring Records of AST #2382 -- maintained in the TA-3-22 control room.
- SPCC training records -- documented in Appendix D and in UTrain, the LANL Learning Management System, in accordance with LANL's Training Program Description PD781.2, Training Program Management.
- **Spill tracking information** kept in Appendix G, and used to describe the spill, corrective actions taken, and plans for preventing recurrence.
- Amendments to the Plan recorded in the Amendment Log, Appendix E.

1.3.3. Training

40 CFR Part 112.7(f)(1) states "Train your oil-handling personnel in the operation and maintenance of equipment to prevent discharges; discharge procedure protocols; applicable pollution control laws, rules, and

regulations; general facility operations; and, the contents of the facility SPCC Plan." A list of oil handling personnel that require SPCC plan related training is contained in Appendix D.

To minimize the potential to discharge oil, oil-handling personnel at the TA-3 Power and Steam Plant are familiar with and have access to Operation & Maintenance manuals applicable to the operation of all equipment. They also can request information or clarification from the FOD or his/her representative and EPC-CP personnel. Oil handling personnel are made aware of SPCC regulatory requirements by required reading of this SPCC Plan and by facility specific training required by the LANS TA-3 Power and Steam Plant Management (Facility Management). To minimize the potential to discharge oil, oil-handling personnel at the facility participate in employee training by attending facility safety meetings and reviewing the Utility Operating Instructions (UOI). Employee training instills in oil-handling personnel, at all levels of responsibility, a complete understanding of the following:

- Operations and maintenance of equipment
- SPCC program
- Procedures for operator observation inspections
- Site safety hazards
- Practices for preventing spills
- Procedures for responding properly and rapidly to spills
- Protocol used to report spills
- Spill events or failures, malfunctioning components, and precautionary measures
- Additional applicable pollution control laws, rules, and regulations

Employee training is conducted at least annually and more often when needed, to ensure adequate understanding of the goals and objectives of the SPCC program and the individual responsibilities of each involved employee. Training is completed using the Utility Operating Instruction (UOI) by reading topics on spill prevention, chemical hygiene, spill cleanup, and fuel oil transfer to employees during routine meetings. The UI Facility Operations Manager documents training activities and records of this training are kept in Appendix D. All briefings are documented by recording the attendance and records of these meeting rosters are maintained by UI Facility Operations Manager.

An online training program has been developed that covers spill procedure protocols, applicable pollution control laws, rules, and regulations; and lessons learned – information on known spill events or failures, SPCC Plan elements, and spill response procedures. This training program is required at least once a year for oil –handling personnel of SPCC facilities. Additional spill prevention briefings and information on known spill events or failures, malfunctioning equipment, and precautionary measures are provided to oil-handling personnel through the LANL Institutional Program, the Operating Experience and Lessons Learned Process, P323-1,or through periodic facility briefings on small spills. In addition to the above training, spill response personnel at LANL receive HAZWOPER training that covers spill prevention, control, and cleanup procedures. Personnel who interact with the tanks covered by this plan receive site specific training by required reading of this SPCC Plan. SPCC training records are kept with this SPCC Plan in Appendix D.

1.3.4. Plan Amendment

This SPCC Plan will be amended whenever there is a change in facility design, construction, operation or maintenance that materially affects the facility's potential for discharge of oil into or upon the navigable waters of the United States or adjoining shorelines. The Plan will also be amended as necessary if a spill causes a change in design, construction, operation, or maintenance. Such amendments shall be fully implemented as soon as possible, but not later than six months after such change occurs. Amendments to the Plan will be recorded in the Amendment Log, Appendix E.

In addition, in accordance with 40 CFR 112.5(b), a complete review and evaluation of this SPCC Plan will be conducted at least once every five years by the operating group and/or Facility Operations Manager, and by EPC-CP. As a result of this review and evaluation, the SPCC Plan will be amended within six months of the review to include more effective prevention and control technology if:

- 1) Such technology will significantly reduce the likelihood of a spill event from the facility
- 2) Such technology has been field proven at the time of review.

Changes to inspection forms or the spill contact list, the addition of records to the Plan, or development of a memorandum of understanding between the operating group/division and the FOD modifying the distribution of responsibilities do not require certification by a Professional Engineer. Technical amendments for any change in the facility design, construction, operation, or maintenance that materially affects the facility's potential for an oil discharge must be certified by a Professional Engineer.

2.0. FACILITY DESCRIPTION

This SPCC Plan addresses the petroleum storing units defined in Section 1.0.

The TA-3 Power Plant is located east of Diamond Drive and is located near the edge of a mesa top at the west end of Upper Sandia Canyon. Sandia Canyon is a tributary to the Rio Grande River, approximately 9.2 miles to the east.

The TA-3 Power Plant facility is a steam based power plant that provides electrical power and steam to LANL. Natural gas is the primary fuel supply for the power plant, with #2 fuel oil (also called diesel) used for backup fuel. A facility diagram showing the location of tanks, buildings, the transfer station, and underground piping is provided in Appendix F. There are no buried tanks at the facility.

The LANS Utilities Department, Electric and Steam Branch operates the plant for the Laboratory under the management of the Laboratory's Utilities and Institutional FOD. The facility is in operation 24 hours a day, 7 days a week with two twelve-hour shifts per day. There are approximately 14 operations and maintenance staff members for the facility, with additional supervisors, management, and engineering personnel occupying offices within the facility. The facility boundaries cover an estimated seven acres on Diamond Drive, south of East Jemez Road, in Los Alamos. Much of the industrial activity is inside Building SM-22.

The TA-3 Power Plant has three dual-fired boilers, each rated at 120,000 pounds mass per hour (pph) steam flow at 420 pounds per square inch gauge (psig) and 750°F.

There are three turbine generators with a total capacity of 22,000 kilowatts. The units were installed in the early 1950's. The No. 1 and No. 2 turbines each have a 7,500-kilowatt capacity. No. 1 and No. 2 turbines are extraction type turbines and are capable of producing heating and process steam at 100,000 pph, 135 psig, and 565°F. No. 3 turbine is a straight condensing type turbine with a 15,000-kilowatt capacity. The turbines are normally shut down and used for stand-by or peaking electrical power generation. The total power is limited by installed cooling tower capacity.

Heating and process steam is normally supplied from the extraction turbines or from a steam header common to all three boilers. Steam pressure is normally reduced from 400 psig to 70-120 psig through a steam Pressure Reducing Valve (PRV). Downstream of the PRV, the heating steam temperature is reduced from 750°F to approximately 400°F by a de-superheater.

Construction of the Combustion Gas Turbine Generator (CGTG) was completed in late 2007. The CGTG which runs solely on natural gas has a design capacity of 24.6 MW at the average temperature and altitude of Los Alamos. The turbine was manufactured by Roll-Royce and is configured as a simple cycle turbine system. The CGTG will be utilized during peak demand periods for LANL and when in operation, will run from 80 to 100% capacity.

The CGTG has four Oil-Filled Operational Equipment sumps in which the oil is present solely to support the function of the turbine. The oil storage containers have capacities of 240, 1862, 50 and 37 gallons respectively. One container (50 gal) is located inside the gas compressor system (Structure 2373), and one (240 gal) inside the combustion turbine structure (Structure 2422). The other two containers (1862 and 37 gal) are located outside of Structure 2422.

The TA-3 Power Plant is classified under the SPCC regulations as a bulk storage facility. It does not meet the 40 CFR 112.7(h) definition of a tank car or tank truck loading and unloading facility because there is no loading rack with a loading/unloading arm present. The power plant is subject to SPCC requirements due to the two above ground fuel storage tanks, drum storage, a standby generator with built in fuel storage tank, and the lubricant oil tanks associated with the turbines. The SPCC regulated units are highlighted on the site diagram in Appendix F.

The two large #2 fuel oil ASTs are located on the northeast corner of the property. Each tank is contained in an unlined earthen berm. Tank 26 was emptied, cleaned, and closed in place as of May 2011 and is scheduled to be removed in 2016. Fuel from Tank 2382 is transferred into Building 22 by underground piping via the pump house. Fuel is delivered to the tanks via tanker trucks that off-load at the pump house, Bldg. 57. When fuel is delivered, the fuel is pumped from truck tankers into the Tank 2382 through the pump house.

The 1.25-Megawatt standby diesel generator is located to the east of TA-3 Bldg 22. The unit consists of a generator and engine, which are enclosed in an acoustical enclosure and sit on a dual-wall sub-base fuel tank. The generator is equipped with a fuel level indicator, a 95% overfill alarm as well as a leak indicator that alarms if fuel is released into the outer containment tank.

Twelve oil-filled transformers are located within the power plant and eight of the transformers have secondary containment. The transformers are all located on concrete pads which allows for easy detection of oil leaks or spills.

The drum storage area is located south of Bldg. 22 and contains oils and lubricants used at the TA-3 Power Plant. The area is contained by a concrete curb with a capacity of 890 gallons and also has a roof covering to prevent precipitation from entering the storage/containment area. In addition, Room 100 inside Bldg. 22 also contains oil. The oil is stored on secondary containment units. 55-gallon barrels of oil may be temporarily placed in the basement when a shipment is unloaded at the North Loading Dock. This inventory is quickly disseminated as needed throughout the facility.

There are eight units that contain oil inside of TA-3 Bldg. 22 associated with providing lubrication for the three turbines. Each turbine has an oil sump on the turbine. The sumps on turbines 1 and 2 contain 448 gallons of oil. The sump on turbine 3 contains 680 gallons of oil. Each turbine has an oil purification unit with an estimated 150-gallon capacity that removes impurities from the oil used by each turbine. There is an 860-gallon oil storage tank, TO-2, (currently out of service) that feeds the No. 3 turbine sump and a 700-gallon tank, TO-1, that feeds the sumps on turbines 1 and 2.

2.1. Aboveground Storage Tanks

TA-3 Power Plant has two ASTs. AST #26 and #2382 are cylindrical tanks. Tank #26 was emptied, cleaned, and permanently closed in place as of May 2011. The AST #2382 is used only for storage of No. 2 fuel oil and is constructed of commonly accepted carbon steel used for manufacturing No. 2 fuel oil storage tanks and compatible with No. 2 fuel oil storage. Secondary containment is provided for each of the ASTs as described below. Cathodically protected and wrapped underground piping connects the storage tanks, pump house, and Power Plant boilers. Currently, there are no plans to install future piping; however, if buried piping is added in the future, it will be either wrapped or coated and have cathodic protection or be constructed of double-walled, non-steel material.

There are no buried, partially buried, or mobile tanks at the facility.

AST #26

AST #26 was emptied, cleaned and permanently closed and abandoned in place as of May 2011, and is scheduled for removal in 2016. The tank is currently surrounded by an earthen berm which serves as secondary containment (see Photo 1). This earthen berm will remain in place.



Photo 1. AST #26 (Emptied, Cleaned and Permanently Closed in Place as of May 2011)

AST #2382

AST #2382 (Photo 2) is surrounded by an earthen berm, providing a secondary containment capacity of approximately 179,300 gallons. AST #2382 is equipped with an epoxy coating on the inside of the tank (on the bottom and up the sides about 18 inches) and a cathodic protection system for protection of the bottom of the tank from external corrosion.

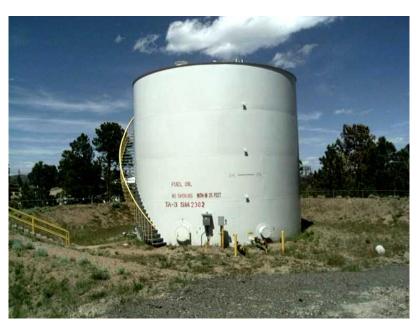


Photo 2. AST #2382 (formerly #779)



Photo 3. Pump House (Bldg. 57) and Containment Berm

Fuel Loading Port and Pump House Bldg. 57

The Fuel Loading Port is located along the west side of the TA-3-57 Pumphouse which is located between AST's #26 and #2382. In 2006 the area behind the pumphouse was contoured and a new berm installed so that any leakage from fuel truck unloading, to the pump house will be contained in the bermed area behind the pumphouse, or overflow would go into the larger bermed containment around Tank 26 (Photo 3).

Transfer Piping (Aboveground) and Equipment

It is possible that a rupture in the aboveground lines or valves inside the pump house Bldg. 57 could discharge most of the contents of tank #2382. This is the only tank on-line. A release into Bldg. 57 would fill the lower part of the room and flow out the door and into the swale between the two containment berms. Any overflow from this berm would flow into the larger secondary containment berm around Tank 26. The refueling port to the tank is located outside of Bldg. 57. Releases during refueling operations could be as much as 9,000 gallons and would also flow into the swale behind Bldg. 57 and any overflow beyond this swale capacity would flow into the larger secondary containment around Tank 26.

Transfer Piping (Underground)

The underground transfer piping does not have secondary containment: It is possible that a rupture in the underground lines between AST 26 and 2382 could discharge the contents of tank #2382 into the ground. Underground piping is cathodically protected and polyethylene-wrapped. The lines are pressure tested annually to 250 psig to confirm integrity. The valves at the tanks are in the closed and locked position when not in use.

1.25 MW Standby Generator

The standby generator is a fully contained unit that has a fuel tank built in as part of the frame (see Photo 4). The fuel tank on the standby generator is completely contained in a secondary containment rupture basin on the unit. Any leaks or ruptures in the fuel tank would be contained within the unit. The secondary containment rupture basin is a closed system, not exposed to precipitation. The combined volume of the tank and rupture basin is 1,706 gallons. The generator is equipped with a fuel level indicator as well as a leak indicator that alarms if fuel is released into the outer containment rupture

basin. The stored volume is approximately 90% of the gross volume. An overfill prevention alarm set to alarm at the 90% fill level was installed in 2015 to meet NMAC 20.5 requirements.



Photo 4. 1.25 MW Standby Generator (Structure 1404)



Photo 5. CGTG Gas Compressor (Structure 2373)

CGTG Gas Compressor

The Gas Compressor is a self-contained unit that has a lube oil sump built into the base of the unit (Photo 5). The oil filled operational equipment has built-in secondary containment. Any ruptures would be contained within the unit.



Photo 6. CGTG Oil Filled Operational Equipment (outside Structure 2422)

CGTG Oil Filled Operational Equipment

The CGTG has three self-contained lube oil reservoirs (Photo 6). Any leaks that would occur are collected, via drain pipes, and sent to a 2000 gallon below grade storage tank (Photo 7) located inside a concrete vault which provides the tank with secondary containment. The below grade tank liquid level is remotely monitored in the Power Plant control room and the tank contents are removed, as needed, for offsite recycling. There are also two oil sumps that supply lubricant oil to the CGTG. See Section 1.0 for oil capacities for each.



Photo 7. CGTG Oil/Water 2000 Gallon Below Grade Storage Tank
With Secondary Containment TA-3-2305

Transformers

Eight transformers located within the power plant have secondary containment. Transformers (03-2107, 03-2108, 03-2109) are co-located on a concrete pad that has a below grade catch basin to capture any leaks or spills. Transformer (03-2111) sits on a concrete pad with a metal berm around it and the 03-2591, 2592 transformers are located within a bermed fuel loading area. Transformers (2100) and two of the substation transformers (03-0144, 03-0232) have concrete curbs.

Transformer	Oil (Gallons)
2100	530
03-0144	8320
03-0232	8576
03-2107	265
03-2108	265
03-2109	265
03-2111	265
03-2384	169
03-2428	175
03-2516	245
03-2591	142
03-2592	519

Drum Storage Area

An indoor Oil Drum Storage Area is located in Room 100 on the main floor of TA-3-22. It houses four portable secondary containment units, each holds lubricating oil in various container sizes ranging from 10 to 55 gallons (see Photo 8). Although containment only needs to be sized for a single tank or drum, secondary containment units associated with this drum storage unit have an approximate capacity of 225 gallons.

Another Drum Storage Area is located outdoors south of TA-3 Bldg. 22 (see Photo 9). It contains oils and lubricants used at the TA-3 Power Plant. The area is contained by a concrete curb with a capacity of 890 gallons and also has a roof covering to prevent precipitation from entering the storage/containment area. The maximum limit for 55-gallon drums in the containment based on the containment volume is 16 drums.







Photo 9. Oil Drum Storage, South Bldg. 22

Turbine Lubricant Storage Equipment, Sumps, and Purification Units

There are eight units that contain oil inside of TA-3-22 associated with providing lubrication for the three turbines (see Section 1.0 for oil volumes of each). The units are located in a bermed area. Drains located in the bermed area were grouted and plugged in October 2003.

Each turbine has an oil sump on the turbine (see Photos 10 and 11), an oil purification unit that removes impurities from the oil used by each turbine (see Photos 14 and 15) and two sump feeder oil storage tanks (see Photos 12 and 13). The equipment turbine normally contains approximately 200 gallons of oil.



Photo 10. No. 1 Turbine Oil Sump



Photo 11. No. 3 Turbine Oil Sump



Photo 12. No. 1&2 Oil Storage Equipment (TO-1)



Photo 13. No. 3 Oil Storage Equipment (TO-2)



Photo 14. Oil Purification Unit in Bermed Area



Photo 15. Oil Purification Unit in Bermed Area

2.2. Security

SPCC requirements dictate that storage facilities be fenced and locked or secured when the facility is not attended or in operation. For security, the TA-3 Power Plant is fully fenced and the main entrance gate is only accessible via card reader access. Pump controls are accessible only to authorized personnel at all times. Master flow and drain valves of tanks are locked closed. The transfer line is capped and the valve is locked during periods of non-use. Lighting at the facility is adequate to detect night spills and to deter vandals.

2.3. Secondary Containment Drainage Operations

Storm water run-on into the SPCC area is minimized by both an asphalt curb located up-gradient that diverts run-on away from the ASTs and by the grading of the area near the ASTs. Although the run-on is minimized, storm water and snowmelt may still accumulate in the bermed containment area around the ASTs. Storm water accumulations in the bermed areas are usually small and are allowed to evaporate and infiltrate. There is no discharge valve or line from the containment area to remove an accidental spill or large accumulations of storm water. If required, the containment area may be emptied by portable equipment (e.g. pumps and hoses) supplied by the emergency response team or other group and removed from the area after use.

In addition, storm water and snow occasionally accumulate in the covered containment area around the drums. Usually the accumulations are small and evaporate fairly quickly but may occasionally need to be drained. If required, the containment area may be emptied by portable equipment (e.g. pumps and hoses) supplied by the emergency response team or other group and removed from the area after use.

The below-grade catch basin around three transformers may occasionally need to be drained of storm water. This is accomplished by first following the steps listed below. If the collected water is clean, a locked valve can be opened to drain this catch basin.

In the event that secondary containment drainage is necessary, accumulations must meet federal and state water quality standards prior to discharge. To ensure compliance with these standards, the following steps will be used for secondary containment unit discharge operations:

- Visually inspect accumulation to ensure that the water does not possess an oil sheen, odor, or other constituents that could result in a harmful discharge
- Prior to a discharge, notify the Deployed Environmental Professional at 699-1605.
- Notify EPC-CP at 606-0185 to obtain authorization for release and for testing of contaminates and pH, if necessary.
- Remove the pump after the drainage operation is complete
- Properly record each drainage operation; include the time, date, and employee who performed the operation. (Records will be kept in Appendix I of this document in accordance with Section 1.3.2.)

Discharge locations will be inspected regularly and records will be kept as part of this SPCC Plan in accordance with Section 1.3.2.

Precipitation accumulation is not possible in the secondary containment for the stand-by generator since it is a closed system. Precipitation accumulation is not possible around the turbine lubrication units since the units are located inside TA-3 Bldg. 22. Precipitation accumulation at the CGTG is collected in concrete trenches and is stored in the 2000 gallon vaulted oil-water tank.

2.4. Facility Transfer Operations

Cathodically protected, polyethylene-wrapped underground piping connects the storage tanks, pump house, transfer area, and Power Plant boilers. Pneumatic and hydrostatic testing of the underground piping was

performed in September 2007. Because of the water main break on January 25, 2002, part of the cathodic protection on the fuel supply and return lines near SM-22 was damaged. The damage was repaired in the spring of 2002 and the cathodic protection is functional.

At TA-3 Power Plant, transfer piping operation is guided by the following:

- Above ground piping is capped when not in service or in standby service and marked with flow direction. Drip pans are used during fueling and transfers.
- Underground piping for oil supply and return lines are locked closed near the base of the tanks when oil is not being used.
- All piping and equipment in vehicle access areas is clearly marked by appropriate signs, or entering vehicles are verbally warned as to the location of piping and equipment, and bollards are in place for protection.
- Regular inspection of the piping and equipment is conducted.
- Regular Pressure Testing of pipes that do not have secondary containment. Periodic pressure testing is completed by LANS Utilities personnel.
- Integrity and leak testing of buried piping is conducted at the time of installation, modification, construction, relocation, or replacement.
- Trenches, curbing, sumps, and additional secondary containment are of sufficient capacity to contain normal spills.
- UI-PROC-66-20-170-R1 Fuel Oil Delivery and Reloading onto Trucks/Tankers Steam Plant TA-3.

2.5. Facility Drainage

The facility has very little vegetation, and drainage from the facility that is not captured within AST secondary containments flows overland into an ephemeral stream leading to Sandia Canyon. Sandia Canyon is a tributary to the Rio Grande, which is located approximately 9.2 miles to the east. There is one culvert that catches water from between Buildings 22 and 1682 and discharges it to the east, between AST #2382 and a cooling tower (Bldg. #592). The culvert discharges at the east edge of the security fence into an unnamed tributary to upper Sandia Canyon. No watercourses or arroyos run through the facility.

2.6. Fail-Safe Engineering

The two large ASTs are equipped with electronic depth gauges. Tank inventory for tank #2382 is also monitored on-line via differential pressure transmitters, which have indicators near the tanks and inside the control room. The signal is self-corrected for temperature since the static pressure measured directly relates to the mass of oil. Thus, volumetric and density changes have no impact on the reading. As of March 19, 2003 history trends of the tank levels are available with 2-minute readings. Inventory reconciliation currently occurs with the electronic depth gauge that was installed on tank #2382.

Internal heating coils are not used. Visible oil leaks are promptly corrected. Leaks and corrective actions are recorded in Appendix G.

The secondary containment tank on the stand-by generator is equipped with a leak alarm float switch, which is connected to the generator control panel to automatically alert the operator, during the daily inspection if there is any fluid in the secondary containment basin. The tank for the stand-by generator is fitted with fuel level gauges to indicate the levels in the tank. If consistent losses are indicated, an investigation will be conducted to determine if the loss is due to accounting errors or tank leakage. Based on the self-contained, aboveground configuration of the tank, a significant leak would be obvious around the tank pad.

2.7. Facility Loading/Unloading

The #2 fuel oil in the large Tank 2382 is stored as backup fuel and is used periodically for practice burning oil. Occasionally it is necessary to re-fill this tank. LANS contracts with a company to deliver #2 fuel oil for the AST by tank trucks and off load the fuel oil into the above ground storage tank from the fuel transfer area. A large release during unloading would flow between the two secondary containment berms and be captured in the earthen berm between the two tanks. A large release would be contained in the secondary containment around Tank 26.

The stand-by generator is refueled by tank trucks from LANS. Facility loading and unloading is guided by the following:

- Utility Operations Procedure UI-PROC-66-20-170-R1 Fuel Oil Delivery and Reloading On to Trucks/Tankers at the TA3 Power Plant will be followed.
- Early vehicle departure will be prevented via warning signs, physical barriers, or interlocked warning lights.
- Vehicles will be examined for leakage at all outlets prior to filling and departure.

Fuel delivery to the stand-by generator is monitored using UOI Procedure UI-PROC-66-20-170-R1. In addition, a spill container will be placed under the fuel delivery hose connect by fuel delivery personnel before refueling. There will always be three personnel (two truck personnel and one plant operator) observing the fuel hose while fuel is being transferred to the generator fuel oil tank. If a leak is observed, the operator on the truck control will utilize the shut-off valve to close fueling operation. This precaution is taken due to the fuel vehicle parking approximately 10 feet from an open grated drain while refueling the generator. The fuel delivery is a LANS run operation associated with the TA-60 Roads and Grounds Facility.

Oil in the turbine lubrication system is delivered and off-loaded in drums.

3.0. SPILLS

3.1 Spill History and Potential Spill Predictions

A summary of spills that have occurred in the past is presented below. Any spills that occur while this plan is in effect will be recorded in Appendix G.

On March 10, 2008 the lube oil gasket on Turbine #1 failed and filled the secondary containment pan under the gasket housing. A small amount of oil overflowed to the basement concrete floor. Absorbent pads and vermiculite were applied to the spill area. All of the oil was contained and disposed of appropriately.

On June 2, 2004, pipe fitters were working on a fitting to the transmission line and fuel from the pressurized line caused diesel to be sprayed on the workers and on to the ground with in the secondary containment. Micro Blaze was applied to the ground and left in secondary containment area and covered with a tarp. Line was locked and tagged out per the work procedure, but a small portion of the line was still under pressure and leaked when the workers opened a T valve. There were no other isolation valves to isolate the line.

On May 5, 2004, a very small leak was detected on AST#26 on the 1/2" piping to the level transmitter. Less than 1/2 pint had leaked through the thread joints. The spill was cleaned up and the threaded joints were replaced with socket weld joint piping to avoid another occurrence of this type.

On May 6, 2004, maintenance crews were transferring lube oil from turbine no. 3 sump to Bowser no. 2 oil purification unit when the oil came back thru the backflow device and leaked out into the concrete secondary containment of Bowser no. 2. Approximately 2 gallons leaked and was cleaned up using absorbent. The leak occurred since there was no isolation valve on the line.

On September 10, 2003 lubrication oil leaked through the main seal on turbine no. 1 and onto the basement floor. Approximately 70 gallons of oil leaked out and was absorbed with booms and pads and some absorbent. Some oil made it into floor drains which lead to the sump that is emptied into the primary environmental tank, secondary environmental tank and then discharged through the outfall into the drainage. No oil made it to the primary environmental tank or to the outfall. Oil was contained in the basement and drummed for disposal. Most floor drains in the basement were plugged with expandable plugs and drains within secondary containment were grouted closed in October 2003.

On April 3, 2003, crews drilling holes to install cathodic protection for the tank bottom on AST #26 discovered fuel contamination beneath the ground surface on the north and east side of the tank. The investigation and its report (TA-3-26 Diesel Fuel Contamination Assessment and Characterization (LA-UR-04-2932)) showed the plume of contamination of approximately 300 gallons of fuel in the soil on the north and east side of the tank at intervals between 10 and 20 feet. The tank and associated piping were tested and show no evidence that the tank is currently leaking. Groundwater is not threatened by the contamination, which is 1,400 feet above the aquifer. There is no surface water impacted or threatened by the release.

On February 14, 2002, a small spill of #2 fuel oil was found leaking from a fuel line located in the basement and on the east side of Building 3-22. Fuel was found dripping from the overhead line due to a line shift caused by soil disturbance from a water main break on January 25, 2002. The estimated 3 gallons that had leaked from the pipe were contained, and spill absorbent was spread on top of the oil. The oil and absorbent were picked up and the line was repaired.

A leak in the underground piping between Building TA-3 -22 and the Bldg 57 pump house was discovered in early 1990. The line was partially corroded and approximately 300 gallons was spilled. The lines were replaced and wrapped in polyethylene and cathodic protection was installed.

Items within the TA-3 Power Plant that possess a spill potential due to equipment failure include the AST and the associated transfer piping and equipment, the stand-by generator, and the oil storage units inside the building. Potential discharge quantities for each unit(s) are provided in Section 1.0 and flow directions for each follow. Potential spills and a prediction of their discharge quantity and direction include:

AST #26 and Associated Underground Piping (Permanently Closed, Abandoned in place)

Quantity: None, tank is empty.

Direction: Not applicable.

AST #2382 and Associated Underground Piping

Quantity: See comment regarding this Tank in Section 1.0.

Direction: In AST containment area.

Underground Piping with Tanks Isolated

Quantity: A release from the supply and return lines between TA3 Bldg. 22 and the tanks would spill

353 gallons. This scenario is assuming oil is not being pumped to or from the tanks.

Direction: Depending on the rupture the oil would follow two paths, both which lead to Sandia Canyon.

The fuel would flow between the two containment berms or if the rupture was closer to Bldg. 22 the oil would flow into the storm water culvert which discharges at the end of the east

fence. Either path leads to Upper Sandia Canyon.

Underground Piping with Tanks in Service (not Isolated)

Quantity: A release with the tanks in use at the time of the rupture from the supply and return lines between TA3 Bldg. 22 and the tanks would yield possibly all of the tank contents until the tank could be isolated. The amount spilled would come from Tank #2382. Potential release

Direction: Depending on the location of the rupture the oil would follow two paths, both which lead to

Sandia Canyon. The fuel would flow between the two containment berms or if the rupture was closer to Bldg. 22 the oil would flow into the storm water culvert which discharges at the

end of the east fence. Either path leads to Upper Sandia Canyon.

Filling Operations

Quantity: A release during fueling operations at the fuel transfer area would potentially release

9,000 gallons of fuel at the loading port on the outside of the pumphouse.

Direction: The oil would be released on the ground and would be contained in the berm behind the

pumphouse. In order to minimize the chance of a release during fueling operations the operations will be conducted in accordance with UI fuel unloading procedures discussed in

Section 2.7.

Pumphouse Operation

Quantity: A catastrophic release from one of the lines or valves on the fuel oil return or supply line

could empty the entire contents of Tank #2382 (see volume and comments in Section 1.0.).

This would be only the #2382 tank since the #26 tank is empty.

Direction: The oil released would fill the bottom of the pumphouse and the berm behind the

pumphouse. Larger volumes would flow into the containment berm around Tank 26.

Outdoor Drum Storage Area

Quantity: A rupture or leak in any or all of the drums used to store oil and lubricants in the Outdoor

Drum Storage Area would discharge less than 900 gallons.

Direction: Into the concrete curb containment surrounding the Outdoor Drum Storage Area.

Indoor Drum Storage Area

Quantity: A rupture or leak in any or all the drums used to store oil and lubricants in the Indoor Drum

Storage area would discharge up to 100 gallons.

Direction: Into the plastic drum secondary containment.

Stand-by Generator

Quantity: A rupture or leak of the fuel tank on the stand-by generator would discharge into the

secondary containment tank on the generator unit. In the unlikely event of a failure of both walls of the dual-wall tank system, the unit would potentially release fuel oil to the

environment. See Section 1.0 for volume.

Direction: It is anticipated that the oil would run into the drainage swale south of AST 2382 and into

Upper Sandia Canyon.

Fueling Operations at the Stand-by Generator

Quantity: A release during fueling operations at the stand-by generator would potentially release

2,000 gallons of fuel. Refueling is completed by LANS Roads and Grounds.

Direction: It is anticipated that the fuel would run off the concrete pad and flow into the drainage

channel northeast of the generator and into a culvert that discharges into Upper Sandia Canyon. In order to minimize the chance of a release during fueling operations the

operations will be conducted in accordance with DOT fuel unloading procedures discussed

in Section 2.7.

Turbine Sumps (3)

Quantity: Section 1.0. indicates the maximum volumes that could be released if one of the turbine

sumps leaked.

Direction: The oil would run from the sumps at the lower mezzanine level to the concrete floor in the

basement. Floor drains that drain to a water sump on the south side of the basement have

been temporarily plugged with expandable plugs in November 2009.

Oil Purification Units (3)

Quantity: A rupture or leak from one of the oil purification units could result in the release of any of the

volumes indicated in Section 1.0.

Direction: Onto concrete floor and primarily contained with secondary containment units surrounding

each purification unit. The half steel pipe units comprising the secondary containment were sealed to the concrete in October of 2003. Floor drains within the units were grouted and

sealed in October of 2003.

Turbine Oil Storage Tanks (2)

Quantity: A rupture or leak from one of the oil storage tanks could cause a release of the volumes

described in Section 1.0. The turbine oil storage tank for turbine #3 is located on the east

end of the basement.

Direction: The oil would be released inside the secondary containment and be partially contained

within the containment unit. Any oil that would escape the containment would go onto the concrete floor. Floor drains to the water sump were closed off with expandable plugs. Floor

drains within the secondary containment were grouted closed in November 2003.

3.2. Spill Prevention, Response, and Reporting

Spill prevention includes training employees on appropriate spill prevention and work procedures and performing inspections and maintenance activities to minimize the potential for equipment failure. Work is also performed using LANL's five step Integrated Safety Management approach, which evaluates a task and identifies potential hazards such as a spill event.

Spill control equipment is available inside Building TA 3-22 on the main floor and in the basement. The spill kits contain adequate universal sorbent or spill control pillows to handle minor spills at each tank and transfer area. Spill Kits also contain goggles, gloves, bags, ties, scoop and labels. In the event of a spill, power plant personnel will notify the UI Facility Operations Manager and will provide the FOD with a copy of the completed spill report. The facility's approach to spill clean-up is to first contain the spill by securing the spill source and deploying spill containment materials, including sorbent pillows, socks, sheets, and granules. In most cases, the secondary containment will contain the spill. In the event of a spill from the turbine lubrication system into the environmental tank system, the sump and/or the primary environmental tank is isolated to contain oil that has reached either of these components of the system. The operator involved in the spill or in the vicinity responds to small spills. For incidental releases, absorbents are used to pick-up free liquids and the contaminated absorbents are properly disposed according to LANL LIRs. Clean-up residues are managed as hazardous or solid waste, as appropriate and as determined by the facility waste coordinator and spill coordinator. Significant spills must be reported by calling 911 or contacting LANL Emergency Management & Response (EM&R) at 7-6211 to respond to the spill.

Spill disposal methods will follow LANL, U.S. Department of Energy (DOE) and NMED guidelines. It is the responsibility of the FOD to contact the appropriate Waste Generator and Waste Management Coordinator who are properly trained to dispose of spill materials.

Spill reporting is accomplished through SPCC Plan documentation and EM&R notification. Spills must be documented by the Facility Deployed Environmental Professional using the form in Appendix G and the record retained as part of the SPCC Plan in accordance with Section 1.3.2. If EM&R is notified of a spill event, they will contact all additional applicable parties including EPC-CP. Completion of additional spill

reports and the federal reporting of spills in excess of 1,000 gallons or two combined spills greater than 42 gallons in 12 months will then be made by EPC-CP and EM&R in accordance with Laboratory and DOE policies, and federal and state regulatory reporting requirements.

To achieve effective spill response, employees receive training in response procedures. Personnel involved with facility operations are instructed on safety precautions, initial spill response procedures, and how to use available spill cleanup materials. The spill coordinator is the designated person responsible for oil spill prevention at the facility, including training programs and spill control equipment. In addition to annual training, periodic spill prevention briefings will be conducted as necessary to inform operating personnel of known spill events or failures, malfunctioning components, recently developed precautionary measures, or other SPCC-related issues.

Subcontractors who operate areas where SPCC Plans are required shall be responsible for developing and maintaining spill prevention control and countermeasures for chemicals, petroleum, and waste products used and stored on the work site. The following Best Management Practices (BMPs) shall be used.

- Establish secondary containment, diversionary structures, or equipment to prevent the products from contaminating the environment should a spill or leak occur.
- Locate storage facilities away from low-lying areas such as ditches, streams, and storm sewers.
- Maintain spill control equipment (i.e. spill kits) near the source.
- Effectively containerize and label all products.

UI-PROC #66-20-055 is used to give personnel parameters for determining and making an appropriate response to any spill or unplanned release of oil, chemicals, or other substances at TA-3 Power Plant

In such an event, the 24-hour on-call UI Facility Duty Officer must also be notified at 699-7452.

Spill events in excess of one quart will be documented in Appendix G of the SPCC Plan. In the event that the spill is into a canyon, arroyo, river, or stream, the table must be filled out in its entirety, and all information in the table must be provided to the LANL Environmental Compliance Group, (EPC-CP). Required LANL spill reports will be completed by the organization responsible for overseeing site operations, and copies of the reports will be maintained by both the responsible organization and EPC-CP.

In the event of any spill exceeding five gallons, the following TA-3 Power Plant personnel will be notified by the on-shift facility operator:

Name	Title	Work	Pager	Home	Cell
Pablo C de Vaca	Operations Specialist	667-4842			699-8226
Armond Standley	Maintenance Engineer	665-1064			699-1244
Cliff Heintschel	Spill Coordinator				699-1605
Paul Parker	System Engineer	665-5434		661-0345	699-0920
Lawrence Chavez	Operations Manager	606-2093			699-7606
Nicholas Apodaca	Waste Coordinator	665-2204			412-3647

Appendix A

Listing of Associated Standards and Procedures

Tank and Piping References

The following tank and piping standards may apply to the TA-3 Facility

General

- 20.5 NMAC-NMED PST Regulations: <u>Petroleum Storage Tank Regulations</u>, 20 NMAC 5 and 20.5 NMAC
- 40 CFR 112 Oil Pollution Prevention, SPCC Regulations http://www.epa.gov/oilspill/pdfs/40cfr112.pdf
- 49 CFR Part 177 Subpart B: Loading and Unloading DOT Regulations
- NFPA 30 Flammable and Combustible Liquids Code

Piping

API 570- Inspection, Repair, Alteration, and Rerating of In-service Piping Systems

- **Steel Atmospheric Pressure Tanks**
 - API 653 Tank inspection, Repair, Alteration and Reconstruction
 - API 620, 650, and 653 Interpretations
 - API 575 Inspection of Atmospheric and Low Pressure Tanks
 - Steel Tank Institute SP-001-05 Standard for Inspection of In-Service Shop fabricated aboveground tanks for storage of combustible and Flammable liquids
 - STI-R893-89 Recommended practice for external corrosion protection of shop fabricated aboveground tank floors

UI Procedures

The following UI Procedures apply to the TA-3 Power Plant

- Rupture alarm UI-PROC-71-10-280-R0 Stand-by
- UI-PROC-66-20-020-R1 TA-3 CoGen SPCC compliance
- UI-PROC-66-20-055 Spill Response Steam Plant TA-03
- UI-PROC-66-20-170 TA-3 Power Plant Fuel Oil Delivery and Reloading
- UI-PROC-76-71-012 External Integrity Testing of ASTs
- UI-PROC-76-71-500 Inspection of Cathodic Protection on ASTs and Fuel Oil Lines
- UI-PROC-76-71-510 Underground Pressure Testing of Fuel Oil Lines
- UI-PROC-76-86-013 Remove Water from Fuel Oil Storage 36 Month Frequency

Appendix B

Certification of the Applicability of the Substantial Harm Criteria

CERTIFICATION OF THE APPLICABILITY OF THE SUBSTANTIAL HARM CRITERIA

Facility	Name:	TA-3 Power Plant						
Facility	Address:	Los Alamos National Laboratory						
1.	1. Does the facility transfer oil over water to or from vessels and does the facility have a total oil storage capacity greater than or equal to 42,000 gallons?							
	Yes	No <u>X</u>						
2.	the facility lack	secondary containment that is suffill storage tank plus sufficient freeboa	reater than or equal to 1 million gallons and does ciently large to contain the capacity of the largest rd to allow for precipitation within any aboveground					
	Yes	No <u>X</u>						
3.	3. Does the facility have a total oil storage capacity greater than or equal to 1 million gallons and is the facility located at a distance (as calculated using the appropriate formula in accordance with EPA 40 CFR 112, App. C) such that a discharge from the facility could cause injury to fish and wildlife and sensitive environments?							
	For further description of fish and wildlife and sensitive environments, see Appendices I, II, and III to DOC/NOAA's "Guidance for Facility and Vessel Response Plans: Fish and Wildlife and Sensitive Environments" and the applicable Area Contingency Plan.							
	Yes	No <u>X</u>						
4.	4. Does the facility have a total oil storage capacity greater than or equal to 1 million gallons and is the facility located at a distance (as calculated using the appropriate formula in accordance with EPA 40 CFR 112, App. C) such that a discharge from the facility would shut down a public drinking water intake 2?							
	Yes	No <u>X</u>						
	5. Does the facility have a total oil storage capacity greater than or equal to 1 million gallons and has the facility experienced a re-portable oil spill in an amount greater than or equal to 10,000 gallons within the last 5 years?							
	Yes	No <u>X</u>						
		CERTIFICAT	TION					
this doc	ument, and that		d and am familiar with the information submitted in iduals responsible for obtaining this information, I complete.					
Lawren	ce V. Chavez		UI Operations Manager					
	Name (ple	ease type or print)	Title					
	5	Signature	Date					

Appendix C1

Visual Inspections

- 1. Monthly Facility Walk-Around
- 2. Daily Facility Walk-Around
- Annual Spill Control Material Inventory
 Monthly SPCC Inspection Forms and Monthly and Annual Inspection Reports

Appendix C2

Certified and Other Inspections

- 1. Cathodic Inspection
- 2. Brittle Failure Inspection
- 3. Integrity Testing
- 4. Line Pressure Testing
- 5. Fuel Level Monitoring for ASTs (Archived in Control Room)

Appendix D

Training Records

Appendix E

Amendment Log

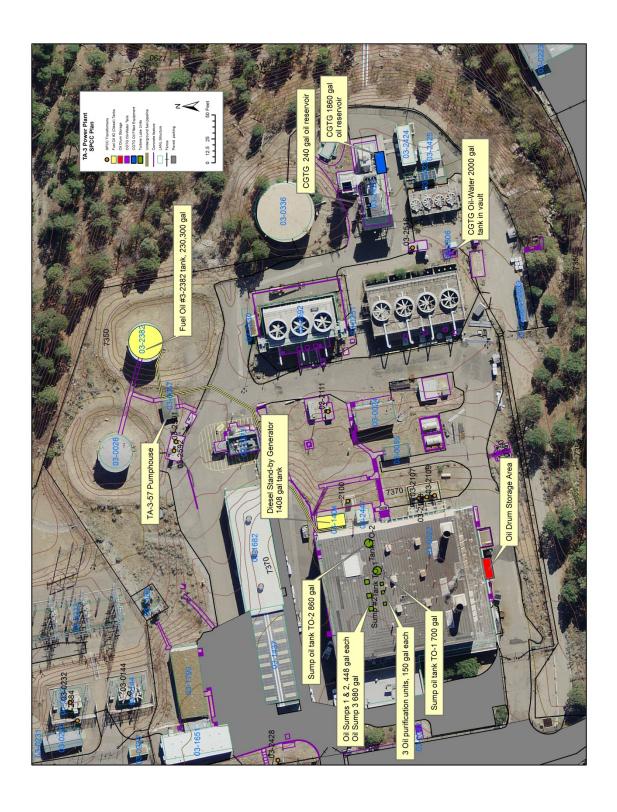
Appendix E Amendment Log

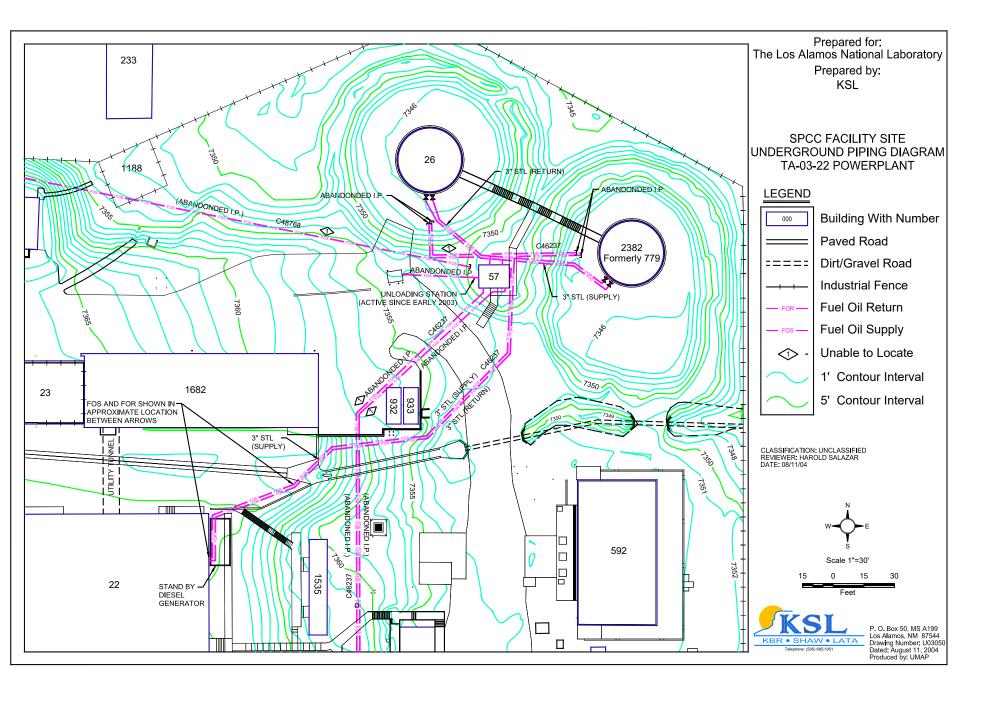
PE Certification needed?	No	Yes	Yes								
Amendment	Document wide.	Document wide	Document wide								
Reason for Amendment	December 2008 Amendments to the SPCC Rule and December 2008 Annual inspection comments on the SPCC Plan	Update to reflect facility changes (removal of transformers, emptying/closure of tank)	Five year review and renewal.								
Plan Section	All	IIA	IIA								
Date	January 2009	January 2011	May 2016								

Appendix F

Facility Diagrams and Other Information

- 1. SPCC Facility Site map for TA-3 Power Plant
- 2. SPCC Facility Site Underground Piping Diagram for TA-3 Power Plant





Appendix G

Oil Spill Tracking Form

Spills entered into SPCC at each update

Oil Spill Tracking Form

Names of Those Contacted					
Evacuation Needed?					
Corrective Action Taken					
Damages or Injuries Caused by Discharge					
Cause of Discharge					
Description of Affected Media					
Quantity Discharged in Arroyo, Stream, River, or Canyon					
Type, Source, Material, and Quantity Spilled*					
Spill Location and Phone Number of Facility					
Date and Time					

Appendix I

Storm Water Discharge Form

LANL LIQUID DISCHARGE FORM EPC-CP Los Alamos National Laboratory

LOCATION: TA:	BLDG:
FIRE HYDRANT / PIPE / MANHOLE / SECONDARY CONTAINMENT/OTHER:	
USER GROUP:	CONTACT PERSON:
PHONE:	PAGER:
PERSON CONDUCTING SECONDARY CODRAINAGE ACTIVITY:	ONTAINMENT
DATE and TIME of DISCHARGE:	/
DURATION of DISCHARGE:	/
EPC-CP CONTACT: jmeadows@lan	al.gov
Jacob Meadow	'S
DESCRIPTION of DISCHARGE:	
VOLUME of DISCHARGE:	
CANYON AFFECTED:	
SAMPLES TAKEN: YES:	NO:
COMMENTS:	
direction or supervision in accordance with properly gather and evaluate the information persons who manage the system, or those information, the information submitted is, to	nent and all attachments were prepared under my a system designed to assure that qualified personnel n submitted. Based on my inquiry of the person or persons directly responsible for gathering the the best of my knowledge and belief, true, accurate, gnificant penalties for submitting false information, ament for knowing violations.
CERTIFIED BY:	DATE:
(Group Leader	r or Above)