APPENDICES SAND2020 - 5742 O

Appendix A: 2015 Multi-Sector General Permit

No.	Description
A-1	EPA Multi-Sector General Permit (MSGP) issued June 4, 2015.

An electronic copy of the 2015 Multi-Sector General Permit is available at this online location: http://digitalrepository.unm.edu/snl_msgp/

Appendix A-1

Appendix B: Notices of Intent

No.	Description
B-1	Notice of Intent for DOE
B-2	Notice of Intent for National Technology and Engineering Solutions of Sandia (formerly Sandia Corporation)
B-3	Notification of Management and Operating Contractor Name Change, Sandia National Laboratories/New Mexico
B-4	2018 Change an Existing Notice of Intent Form
B-5	2019 Change an Existing Notice of Intent Form

Appendix B-1

From:	NeT@epa.gov
To:	Harrell, Jeffrey P. (SFO)
Cc:	Deal, Kathie J.
Subject:	[EXTERNAL] EPA Multi-Sector General Permit (MSGP) Notice of Intent (NOI) Submitted to EPA for 30-Day Review - Sandia National Laboratories, NPDES ID: NMR053114
Date:	Monday, August 31, 2015 2:17:24 PM
Attachments:	SubmittedNewNOIReceipt.pdf

2015-08-31

NeT Submission ID: MSGP-2142

Your Notice of Intent (NOI) requesting coverage for Sandia National Laboratories, 1515 Eubank Blvd SE Albuquerque NM 87123, under EPA's Multi-Sector General Permit (MSGP) has been certified and submitted to the EPA for review. The NPDES ID for this NOI is NMR053114. Your coverage under the MSGP begins at the conclusion of the 30-day waiting period, unless otherwise notified that your coverage has been delayed or denied. You will receive an email informing you once your coverage under the MSGP is active with a copy of the certified NOI attached.

For a copy of the form you submitted, please go to the History tab within NeT, which is accessible from https://cdx.epa.gov/epa_home.asp, and click on the View Receipt button for NeT Submission ID MSGP-2142.

For guidance about this process, please visit: http://water.epa.gov/polwaste/npdes/stormwater/Stormwater-eNOI-System-for-EPAs-MultiSector-General-Permit.cfm. For more information about the MSGP, including a copy of the permit, please visit: http://water.epa.gov/polwaste/npdes/stormwater/EPA-Multi-Sector-General-Permit-MSGP.cfm. If you have specific questions, please contact lee.won@epa.gov; lescure.nasrin@epa.gov; emily@avanticorporation.com; farris.erika@epa.gov; Christiane@avanticorporation.com; bius.catherine@epa.gov.

To access a history of your submissions, go to MyCDX within EPA's Central Data Exchange (CDX) and click on the Submission History tab. To see details about this submission, click on the Search tab within My Submissions, enter the following Submission ID value: _4b24cacc-e258-40b2-a23e-00f19aab02c3, and click Search.

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

2015 NPDES Multi-Sector General Permit For Stormwater Discharges Associated With Industrial Activity (MSGP) Forms

United States Environmental Protection Agency
1200 Pennsylvania Ave, NW Washington, DC 20460

Note: This is a "smart form"; as you fill out the form, additional questions willl appear that you will need to answer.

Permit Information

1. What action would you like to take? *

File a New Notice of Intent Form

Submission of this Notice of Intent (NOI) constitutes notice that the operator identified in the Facility Operator Information section of this form requests authorization to discharge pursuant to the NPDES Stormwater Multi-Sector General Permit (MSGP) permit number identified in the Permit Information section of this form. Submission of this NOI also constitutes notice that the operator identified in the Facility Operator Information section of this form meets the eligibility conditions of Part 1.1 of the MSGP for the facility identified in the Facility Information section 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.

Operator Name (Organization Name) *

DOE Sandia Field Office

Operator Name as Noted by the NOI Preparer

Department of Energy

2. Select the state/territory where your facility is located *

NM

3. Is your facility located on Indian Country lands? *

○ Yes ◉ No

4. Are you requesting coverage as a "federal operator" as defined in Appendix A? *

◉ Yes ○ No

5. Are you a new discharger or a new source as defined in Appendix A? *

( ) Yes (•) No

5a. Have stormwater discharges from your facility been covered previously under an NPDES permit? *

(•) Yes ( ) No

5aa. Provide your most current NPDES ID (i.e., permit tracking number) if you had coverage under EPA's MSGP 2008 or the NPDES permit number if you had coverage under an EPA individual permit *

NMR05GP29

6. Do you directly 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 3 water (Outstanding Natural Resource Water) (See Appendix L)? Your project will be considered to discharge to a Tier 3 water if the first water of the US to which you discharge is identified by a state, tribe, or EPA as a Tier 3 water. For discharges that enter a storm sewer system prior to discharge, the first water of the US to which you discharge is the waterbody that receives the stormwater discharge from the storm sewer system. *

( ) Yes (•) No

7. Does your facility directly discharge to a Federal CERCLA site listed in Appendix P? For the purposes of this permit, a permittee discharges to a Federal CERCLA site if the discharge flows directly into the site through its own conveyance, or through a conveyance owned by others, such as a municipal separate storm sewer system. *

( ) Yes (•) No

8. Has the Stormwater Pollution Prevention Plan (SWPPP) been prepared in advance of filing this NOI, as required? *

(•) Yes ( ) No

9. By indicating "Yes", 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 in Part 1.1.3. Any discharges not expressly authorized under the MSGP are not covered by the MSGP and they cannot become authorized by disclosure to EPA and/or a state via this Notice of Intent to be covered by the permit or by any other means (e.g., in the Stormwater Pollution Prevention Plan or during an inspection). 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 ( ) No

10. Master Permit Number

NMR050000

A: Facility Operator Information

1. Operator Name (Organization Name) *

DOE Sandia Field Office

2. Street *

P.O. Box 5400 (correspondence mailing)

3. Supplemental Address

physical address same as facility address

4. City *	5. State *	6. Zip Code *	7. Facility County or Similar Govt. Subdivision *
Albuquerque	NM	87185-5400	Bernalillo

8. Phone (10-digits, No dashes) *	9. Extension	10. E-Mail *
5058456100		karen.agogino@nnsa.doe.gov

Operator point of contact information

11. First Name *	12. Middle Initial	13. Last Name *	14. Professional Title *
Karen	L	Agogino	Water Quality Program Manager

B: Facility Information

1. Facility Name *

Sandia National Laboratories

☐ Facility address same as facility operator address

2. Street/Location *

1515 Eubank Blvd SE

3. Supplemental Address

4. City *

Albuquerque

5. State *

NM

6. Zip Code *

87123

7. Facility County or Similar Govt. Subdivision *

Bernalillo

Latitude/Longitude for the facility:

	8. Latitude (Decimal Degrees) *		9. Longitude (Decimal Degrees) *	10. Latitude/Longitude Data Source *	11. Horizontal Reference Datum
+	35.046	-	106.54	Other	NAD83

12. What is the ownership type of the facility *

Federal Facility (U.S. Government)

13. Estimated area of industrial activity at your facility exposed to stormwater (to the nearest quarter acre) *

978.75

Identify the applicable sector and subsector of your primary industrial activity (See Appendix D) that best represents the products produced or services rendered for which your facility is primarily engaged, as defined in the MSGP, and the 4-digit Standard Industrial Classification (SIC) code or 2-letter Activity Code:

15. Sector *

SECTOR K: HAZARDOUS WASTE TREATMENT, STORAGE, OR DISPOSAL FACILITIES

16. Primary SIC Code *

HZ: Hazardous Waste Treatment, Storage, or Disposal Facilities, including those that are operating under int

17. Subsector

: Hazardous Waste Treatment, Storage, or Disposal Facilities, including those that are operating under interim status or a permit under subtitle C of RCRA

18. Identify the applicable sectors(s) of any co-located industrial activity for which you are requesting permit coverage.

Sector	Subsector *	
SECTOR J: MINERAL MINING AND DRESSING	J1: Construction Sand and Gravel	Delete Sector
SECTOR L: LANDFILLS, LAND APPLICATION SITES, AND OPEN DUMPS	L1: All Landfill, Land Application Sites and Open Dumps	Delete Sector
SECTOR L: LANDFILLS, LAND APPLICATION SITES, AND OPEN DUMPS	L2: All Landfill, Land Application Sites and Open Dumps, except Municipal Solid Waste Landfill (	Delete Sector
SECTOR N: SCRAP RECYCLING FACILITIES	N1: Scrap Recycling and Waste Recycling Facilities except Source-Separated Recycling	Delete Sector
SECTOR N: SCRAP RECYCLING FACILITIES	N2: Source-separated Recycling Facility	Delete Sector
SECTOR P: LAND TRANSPORTATION AND WAREHOUSING	P1: Local and Highway Passenger Transportation	Delete Sector
SECTOR AC: ELECTRONIC, ELECTRICAL, PHOTOGRAPHIC, AND OPTICALÂ GOODS	AC1: Electronic and Electrical Equipment and Components, Except Computer Equipment	Delete Sector

Add Sector

22. Is your facility presently inactive and unstaffed? *

○ Yes ◉ No

C: Discharge Information

1. Does your facility discharge into any saltwater receiving waters? *

○ Yes ◉ No

2. What is the hardness of your receiving water(s) (see Appendix J) *

125-149.99 mg/L

3. Identify if the following Effluent Limitation Guideline(s) apply to any of your discharges

40 CFR Part/Subpart: Part 436, Subpart B	Eligible Discharges: Mine dewatering discharges at crushed stone mining facilities (SIC 1422 - 1429)	Affected MSGP Sector: J	New Source Date: N/A	Does your facility have any discharges subject to this effluent limitation guideline? * ◯ Yes ◉ No
40 CFR Part/Subpart: Part 436, Subpart C	Eligible Discharges: Mine dewatering discharges at construction sand and gravel mining facilities (SIC 1442)	Affected MSGP Sector: J	New Source Date: N/A	Does your facility have any discharges subject to this effluent limitation guideline? * ◯ Yes ◉ No
40 CFR Part/Subpart: Part 436, Subpart D	Eligible Discharges: Mine dewatering discharges at industrial sand mining facilities (SIC 1446)	Affected MSGP Sector: J	New Source Date: N/A	Does your facility have any discharges subject to this effluent limitation guideline? * ◯ Yes ◉ No
40 CFR Part/Subpart: Part 445, Subparts A & B	Eligible Discharges: Runoff from hazardous waste and non-hazardous waste landfills	Affected MSGP Sector: K, L	New Source Date: 2/2/2000	Does your facility have any discharges subject to this effluent limitation guideline? * ◯ Yes ◉ No

Outfalls

4. **List all of the stormwater outfalls from your facility. Each outfall must be identified by a unique 3-digit ID (e.g., 001, 002) or a 4-digit ID. Also provide the latitude and longitude in decimal degrees for each outfall.**

A. Outfall ID *		B. Latitude (Decimal Degrees) *		C. Longitude (Decimal Degrees) *
008	+	34.985259	-	106.536460

Lookup Receiving Waters Information

Delete Outfall

(This button will prepopulate the receiving water information associated with your outfall on your form. You may edit the information that is returned if you believe it is incorrect)

If for any reason the Lookup Receiving Water Information button does not prepopulate your form with receiving waters information, you must manually enter the information on your form.

Outfall Section

1. 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.
(You may edit the name of the water of the U.S. that was returned if incorrect.) *

Unnamed Playa Lake (not a water of the U.S.)

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

◯ Yes ◉ No

3. Has a TMDL been completed for this receiving waterbody? *

◯ Yes ◉ No

Outfalls

4. **List all of the stormwater outfalls from your facility. Each outfall must be identified by a unique 3-digit ID (e.g., 001, 002) or a 4-digit ID. Also provide the latitude and longitude in decimal degrees for each outfall.**

A. Outfall ID * | + | B. Latitude (Decimal Degrees) * | - | C. Longitude (Decimal Degrees) *

017 | + | 34.984846 | - | 106.559084

Lookup Receiving Waters Information

(This button will prepopulate the receiving water information associated with your outfall on your form. You may edit the information that is returned if you believe it is incorrect)

Delete Outfall

D. Substantially Identical to Any Outfalls Listed Above? *

◯ Yes ◉ No

If for any reason the Lookup Receiving Water Information button does not prepopulate your form with receiving waters information, you must manually enter the information on your form.

Outfall Section

1. 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. (You may edit the name of the water of the U.S. that was returned if incorrect.) *

Unnamed Playa Lake (not a water of the U.S.)

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

◯ Yes ◉ No

3. Has a TMDL been completed for this receiving waterbody? *

◯ Yes ◉ No

Outfalls

4. **List all of the stormwater outfalls from your facility. Each outfall must be identified by a unique 3-digit ID (e.g., 001, 002) or a 4-digit ID. Also provide the latitude and longitude in decimal degrees for each outfall.**

A. Outfall ID * | + | B. Latitude (Decimal Degrees) * | - | C. Longitude (Decimal Degrees) *

022 | + | 34.959080 | - | 106.474324

Lookup Receiving Waters Information

(This button will prepopulate the receiving water information associated with your outfall on your form. You may edit the information that is returned if you believe it is incorrect)

Delete Outfall

D. Substantially Identical to Any Outfalls Listed Above? *

◯ Yes ◉ No

If for any reason the Lookup Receiving Water Information button does not prepopulate your form with receiving waters information, you must manually enter the information on your form.

5. Multiple Receiving Waters were returned for your outfall. Please select the receiving water that is associated with your outfall from this list: *

Unnamed Playa Lake (not a water of the U.S.)

Outfall Section

1. 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. (You may edit the name of the water of the U.S. that was returned if incorrect.) *

Unnamed Playa Lake (not a water of the U.S.)

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

◯ Yes ◉ No

3. Has a TMDL been completed for this receiving waterbody? *

( ) Yes (•) No

Outfalls

4. **List all of the stormwater outfalls from your facility. Each outfall must be identified by a unique 3-digit ID (e.g., 001, 002) or a 4-digit ID. Also provide the latitude and longitude in decimal degrees for each outfall.**

A. Outfall ID *		B. Latitude (Decimal Degrees) *		C. Longitude (Decimal Degrees) *
032	+	34.976156	-	106.507393

Lookup Receiving Waters Information

(This button will prepopulate the receiving water information associated with your outfall on your form. You may edit the information that is returned if you believe it is incorrect)

Delete Outfall

D. Substantially Identical to Any Outfalls Listed Above? *

( ) Yes (•) No

If for any reason the Lookup Receiving Water Information button does not prepopulate your form with receiving waters information, you must manually enter the information on your form.

Outfall Section

1. 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.
(You may edit the name of the water of the U.S. that was returned if incorrect.) *

Unnamed Playa Lake (not a water of the U.S.)

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

( ) Yes (•) No

3. Has a TMDL been completed for this receiving waterbody? *

( ) Yes (•) No

Outfalls

4. **List all of the stormwater outfalls from your facility. Each outfall must be identified by a unique 3-digit ID (e.g., 001, 002) or a 4-digit ID. Also provide the latitude and longitude in decimal degrees for each outfall.**

A. Outfall ID *		B. Latitude (Decimal Degrees) *		C. Longitude (Decimal Degrees) *
040	+	35.043632	-	106.543717

Lookup Receiving Waters Information

(This button will prepopulate the receiving water information associated with your outfall on your form. You may edit the information that is returned if you believe it is incorrect)

Delete Outfall

D. Substantially Identical to Any Outfalls Listed Above? *

( ) Yes (•) No

If for any reason the Lookup Receiving Water Information button does not prepopulate your form with receiving waters information, you must manually enter the information on your form.

5. Multiple Receiving Waters were returned for your outfall. Please select the receiving water that is associated with your outfall from this list: *

Tijeras Arroyo via Northern SNL MS4

Outfall Section

1. 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.
(You may edit the name of the water of the U.S. that was returned if incorrect.) *

Tijeras Arroyo via Northern SNL MS4

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

( ) Yes (•) No

3. Has a TMDL been completed for this receiving waterbody? *

( ) Yes (•) No

Outfalls

4. **List all of the stormwater outfalls from your facility. Each outfall must be identified by a unique 3-digit ID (e.g., 001, 002) or a 4-digit ID. Also provide the latitude and longitude in decimal degrees for each outfall.**

A. Outfall ID *		B. Latitude (Decimal Degrees) *		C. Longitude (Decimal Degrees) *
041	+	35.040773	-	106.550031

Lookup Receiving Waters Information

(This button will prepopulate the receiving water information associated with your outfall on your form. You may edit the information that is returned if you believe it is incorrect)

Delete Outfall

D. Substantially Identical to Any Outfalls Listed Above? *

( ) Yes (•) No

If for any reason the Lookup Receiving Water Information button does not prepopulate your form with receiving waters information, you must manually enter the information on your form.

5. Multiple Receiving Waters were returned for your outfall. Please select the receiving water that is associated with your outfall from this list: *

Tijeras Arroyo

Outfall Section

1. 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.
(You may edit the name of the water of the U.S. that was returned if incorrect.) *

Tijeras Arroyo

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

( ) Yes (•) No

3. Has a TMDL been completed for this receiving waterbody? *

( ) Yes (•) No

Outfalls

4. **List all of the stormwater outfalls from your facility. Each outfall must be identified by a unique 3-digit ID (e.g., 001, 002) or a 4-digit ID. Also provide the latitude and longitude in decimal degrees for each outfall.**

A. Outfall ID * 042

B. Latitude (Decimal Degrees) * + 35.041399

C. Longitude (Decimal Degrees) * - 106.543725

Lookup Receiving Waters Information

(This button will prepopulate the receiving water information associated with your outfall on your form. You may edit the information that is returned if you believe it is incorrect)

Delete Outfall

D. Substantially Identical to Any Outfalls Listed Above? *

Yes ( ) No (•)

If for any reason the Lookup Receiving Water Information button does not prepopulate your form with receiving waters information, you must manually enter the information on your form.

5. Multiple Receiving Waters were returned for your outfall. Please select the receiving water that is associated with your outfall from this list: *

Tijeras Arroyo via Northern SNL MS4

Outfall Section

1. 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.
(You may edit the name of the water of the U.S. that was returned if incorrect.) *

Tijeras Arroyo via Northern SNL MS4

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

Yes ( ) No (•)

3. Has a TMDL been completed for this receiving waterbody? *

Yes ( ) No (•)

Outfalls

4. **List all of the stormwater outfalls from your facility. Each outfall must be identified by a unique 3-digit ID (e.g., 001, 002) or a 4-digit ID. Also provide the latitude and longitude in decimal degrees for each outfall.**

A. Outfall ID * 043

B. Latitude (Decimal Degrees) * + 35.002045

C. Longitude (Decimal Degrees) * - 106.468369

Lookup Receiving Waters Information

(This button will prepopulate the receiving water information associated with your outfall on your form. You may edit the information that is returned if you believe it is incorrect)

Delete Outfall

D. Substantially Identical to Any Outfalls Listed Above? *

Yes ( ) No (•)

If for any reason the Lookup Receiving Water Information button does not prepopulate your form with receiving waters information, you must manually enter the information on your form.

Outfall Section

1. 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.
(You may edit the name of the water of the U.S. that was returned if incorrect.) *

Arroyo del Coyote

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

( ) Yes (•) No

3. Has a TMDL been completed for this receiving waterbody? *

( ) Yes (•) No

Outfalls

4. **List all of the stormwater outfalls from your facility. Each outfall must be identified by a unique 3-digit ID (e.g., 001, 002) or a 4-digit ID. Also provide the latitude and longitude in decimal degrees for each outfall.**

A. Outfall ID *		B. Latitude (Decimal Degrees) *		C. Longitude (Decimal Degrees) *
043B	+	35.003472	-	106.465321

Lookup Receiving Waters Information

(This button will prepopulate the receiving water information associated with your outfall on your form. You may edit the information that is returned if you believe it is incorrect)

Delete Outfall

D. Substantially Identical to Any Outfalls Listed Above? *

(•) Yes ( ) No

E. Substantially identical to outfall ID *

043

If for any reason the Lookup Receiving Water Information button does not prepopulate your form with receiving waters information, you must manually enter the information on your form.

Outfall Section

1. 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.
(You may edit the name of the water of the U.S. that was returned if incorrect.) *

Arroyo del Coyote

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

( ) Yes (•) No

3. Has a TMDL been completed for this receiving waterbody? *

( ) Yes (•) No

Outfalls

4. **List all of the stormwater outfalls from your facility. Each outfall must be identified by a unique 3-digit ID (e.g., 001, 002) or a 4-digit ID. Also provide the latitude and longitude in decimal degrees for each outfall.**

A. Outfall ID *		B. Latitude (Decimal Degrees) *		C. Longitude (Decimal Degrees) *
044	+	35.030046	-	106.544179

Lookup Receiving Waters Information

(This button will prepopulate the receiving water information associated with your outfall on your form. You may edit the information that is returned if you believe it is incorrect)

Delete Outfall

D. Substantially Identical to Any Outfalls Listed Above? *

( ) Yes (•) No

If for any reason the Lookup Receiving Water Information button does not prepopulate your form with receiving waters information, you must manually enter the information on your form.

5. Multiple Receiving Waters were returned for your outfall. Please select the receiving water that is associated with your outfall from this list: *

Tijeras Arroyo

Outfall Section

1. 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.
(You may edit the name of the water of the U.S. that was returned if incorrect.) *

Tijeras Arroyo

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

○ Yes ◉ No

3. Has a TMDL been completed for this receiving waterbody? *

○ Yes ◉ No

Outfalls

4. **List all of the stormwater outfalls from your facility. Each outfall must be identified by a unique 3-digit ID (e.g., 001, 002) or a 4-digit ID. Also provide the latitude and longitude in decimal degrees for each outfall.**

A. Outfall ID *		B. Latitude (Decimal Degrees) *		C. Longitude (Decimal Degrees) *
046	+	34.987029	-	106.552739

Lookup Receiving Waters Information

(This button will prepopulate the receiving water information associated with your outfall on your form. You may edit the information that is returned if you believe it is incorrect)

Delete Outfall

D. Substantially Identical to Any Outfalls Listed Above? *

○ Yes ◉ No

If for any reason the Lookup Receiving Water Information button does not prepopulate your form with receiving waters information, you must manually enter the information on your form.

Outfall Section

1. 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.
(You may edit the name of the water of the U.S. that was returned if incorrect.) *

Unnamed Playa Lake (not a water of the U.S.)

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

○ Yes ◉ No

3. Has a TMDL been completed for this receiving waterbody? *

○ Yes ◉ No

Outfalls

4. **List all of the stormwater outfalls from your facility. Each outfall must be identified by a unique 3-digit ID (e.g., 001, 002) or a 4-digit ID. Also provide the latitude and longitude in decimal degrees for each outfall.**

A. Outfall ID *		B. Latitude (Decimal Degrees) *		C. Longitude (Decimal Degrees) *
047	+	34.991814	-	106.544197

Lookup Receiving Waters Information

(This button will prepopulate the receiving water information associated with your outfall on your form. You may edit the information that is returned if you believe it is incorrect)

Delete Outfall

D. Substantially Identical to Any Outfalls Listed Above? *

○ Yes ◉ No

If for any reason the Lookup Receiving Water Information button does not prepopulate your form with receiving waters information, you must manually enter the information on your form.

Outfall Section

1. 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. (You may edit the name of the water of the U.S. that was returned if incorrect.) *

Unnamed Playa Lake (not a water of the U.S.)

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

○ Yes ◉ No

3. Has a TMDL been completed for this receiving waterbody? *

○ Yes ◉ No

Outfalls

4. **List all of the stormwater outfalls from your facility. Each outfall must be identified by a unique 3-digit ID (e.g., 001, 002) or a 4-digit ID. Also provide the latitude and longitude in decimal degrees for each outfall.**

A. Outfall ID *		B. Latitude (Decimal Degrees) *		C. Longitude (Decimal Degrees) *
048	+	34.998319	-	106.543602

Lookup Receiving Waters Information

(This button will prepopulate the receiving water information associated with your outfall on your form. You may edit the information that is returned if you believe it is incorrect)

Delete Outfall

D. Substantially Identical to Any Outfalls Listed Above? *

○ Yes ◉ No

If for any reason the Lookup Receiving Water Information button does not prepopulate your form with receiving waters information, you must manually enter the information on your form.

Outfall Section

1. 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. (You may edit the name of the water of the U.S. that was returned if incorrect.) *

Tijeras Arroyo via Southern SNL MS4

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

○ Yes ◉ No

3. Has a TMDL been completed for this receiving waterbody? *

( ) Yes (•) No

Outfalls

4. **List all of the stormwater outfalls from your facility. Each outfall must be identified by a unique 3-digit ID (e.g., 001, 002) or a 4-digit ID. Also provide the latitude and longitude in decimal degrees for each outfall.**

A. Outfall ID *		B. Latitude (Decimal Degrees) *		C. Longitude (Decimal Degrees) *
049	+	34.971333	-	106.539327

Lookup Receiving Waters Information

(This button will prepopulate the receiving water information associated with your outfall on your form. You may edit the information that is returned if you believe it is incorrect)

Delete Outfall

D. Substantially Identical to Any Outfalls Listed Above? *

( ) Yes (•) No

If for any reason the Lookup Receiving Water Information button does not prepopulate your form with receiving waters information, you must manually enter the information on your form.

5. Multiple Receiving Waters were returned for your outfall. Please select the receiving water that is associated with your outfall from this list: *

Unnamed Playa Lake (not a water of the U.S.)

Outfall Section

1. 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.
(You may edit the name of the water of the U.S. that was returned if incorrect.) *

Unnamed Playa Lake (not a water of the U.S.)

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

( ) Yes (•) No

3. Has a TMDL been completed for this receiving waterbody? *

( ) Yes (•) No

Outfalls

4. **List all of the stormwater outfalls from your facility. Each outfall must be identified by a unique 3-digit ID (e.g., 001, 002) or a 4-digit ID. Also provide the latitude and longitude in decimal degrees for each outfall.**

A. Outfall ID *		B. Latitude (Decimal Degrees) *		C. Longitude (Decimal Degrees) *
051	+	34.999480	-	106.486405

Lookup Receiving Waters Information

(This button will prepopulate the receiving water information associated with your outfall on your form. You may edit the information that is returned if you believe it is incorrect)

Delete Outfall

D. Substantially Identical to Any Outfalls Listed Above? *

( ) Yes (•) No

If for any reason the Lookup Receiving Water Information button does not prepopulate your form with receiving waters information, you must manually enter the information on your form.

5. Multiple Receiving Waters were returned for your outfall. Please select the receiving water that is associated with your outfall from this list: *

Arroyo del Coyote

Outfall Section

1. 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.
(You may edit the name of the water of the U.S. that was returned if incorrect.) *

Arroyo del Coyote

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

○ Yes ◉ No

3. Has a TMDL been completed for this receiving waterbody? *

○ Yes ◉ No

Outfalls

4. **List all of the stormwater outfalls from your facility. Each outfall must be identified by a unique 3-digit ID (e.g., 001, 002) or a 4-digit ID. Also provide the latitude and longitude in decimal degrees for each outfall.**

A. Outfall ID *		B. Latitude (Decimal Degrees) *		C. Longitude (Decimal Degrees) *
052	+	34.998173	-	106.535993

Lookup Receiving Waters Information

(This button will prepopulate the receiving water information associated with your outfall on your form. You may edit the information that is returned if you believe it is incorrect)

Delete Outfall

D. Substantially Identical to Any Outfalls Listed Above? *

○ Yes ◉ No

If for any reason the Lookup Receiving Water Information button does not prepopulate your form with receiving waters information, you must manually enter the information on your form.

Outfall Section

1. 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.
(You may edit the name of the water of the U.S. that was returned if incorrect.) *

Tijeras Arroyo via Southern SNL MS4

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

○ Yes ◉ No

3. Has a TMDL been completed for this receiving waterbody? *

○ Yes ◉ No

Outfalls

4. **List all of the stormwater outfalls from your facility. Each outfall must be identified by a unique 3-digit ID (e.g., 001, 002) or a 4-digit ID. Also provide the latitude and longitude in decimal degrees for each outfall.**

A. Outfall ID * 045

B. Latitude (Decimal Degrees) * + 34.992630

C. Longitude (Decimal Degrees) * - 106.546386

Lookup Receiving Waters Information

(This button will prepopulate the receiving water information associated with your outfall on your form. You may edit the information that is returned if you believe it is incorrect)

Delete Outfall

D. Substantially Identical to Any Outfalls Listed Above? *

○ Yes ◉ No

If for any reason the Lookup Receiving Water Information button does not prepopulate your form with receiving waters information, you must manually enter the information on your form.

Outfall Section

1. 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.
(You may edit the name of the water of the U.S. that was returned if incorrect.) *

Unnamed Playa Lake (not a water of the U.S.)

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

○ Yes ◉ No

3. Has a TMDL been completed for this receiving waterbody? *

○ Yes ◉ No

Outfalls

4. **List all of the stormwater outfalls from your facility. Each outfall must be identified by a unique 3-digit ID (e.g., 001, 002) or a 4-digit ID. Also provide the latitude and longitude in decimal degrees for each outfall.**

A. Outfall ID * 045B

B. Latitude (Decimal Degrees) * + 34.991355

C. Longitude (Decimal Degrees) * - 106.546352

Lookup Receiving Waters Information

(This button will prepopulate the receiving water information associated with your outfall on your form. You may edit the information that is returned if you believe it is incorrect)

Delete Outfall

D. Substantially Identical to Any Outfalls Listed Above? *

◉ Yes ○ No

E. Substantially identical to outfall ID * 045

If for any reason the Lookup Receiving Water Information button does not prepopulate your form with receiving waters information, you must manually enter the information on your form.

Outfall Section

1. 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.
(You may edit the name of the water of the U.S. that was returned if incorrect.) *

Unnamed Playa Lake (not a water of the U.S.)

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

○ Yes ◉ No

3. Has a TMDL been completed for this receiving waterbody? *

( ) Yes (•) No

Add Another Outfall

Provide the following information about your outfall latitude longitude.

5. Latitude/Longitude Data Source *: GPS

6. Horizontal Reference Datum: NAD83

7. Does your facility discharge into a Municipal Separate Storm Sewer System (MS4)? *

(•) Yes ( ) No

7a. Provide the name of the MS4 Operator *: Department of Energy and Sandia Corporation

8. Do 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) (See Appendix L)? *

( ) Yes (•) No

D: Stormwater Pollution Prevention Plan (SWPPP) Information

SWPPP Contact Information

1. First Name *: Kathie

2. Middle Initial: J

3. Last Name *: Deal

4. Professional Title *: Stormwater Program Lead

5. Phone (10-digits, No dashes) *: 5058448503

6. Extension:

7. E-Mail *: kjdeal@sandia.gov

8. 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.

[X] Option 1: Maintain a Current Copy of your SWPPP on an Internet page (Universal Resource Locator or URL).

Provide the web address URL *: https://repository.unm.edu/handle/1928/29607

[ ] Option 2: Provide the following information from your SWPPP.

E: 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? *

Criterion C – Discharges and discharge-related activities are not likely to adversely affect 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). *

There are currently no federally listed threatened or endangered plant or animal species that occur on Kirtland Air Force Base. Critical habitat for the action area is limited to the outfall where Tijeras Arroyo, an

ephemeral arroyo, discharges into the Rio Grande. Because of the ephemeral flow of this arroyo, stormwater discharges and discharge-related activities are not likely to adversely affect the critical habitat. Although five threatened or endangered species are recognized as having the potential for occurring in the action area, it is not anticipated that stormwater discharges would impact these protected species. The surrounding areas have been extensively developed and in use for more than 50 years and it is unlikely that habitat for any species of concern is present within the project area or surrounding vicinity. The conclusion of no impact is based on previous experience in the area with similar projects. SNL maintains an extensive record of biological surveys that have been previously conducted. To ensure no impact, following completion of a National Environmental Policy Act review, the Environmental Programs Department at SNL conducts a survey prior to construction activities to determine the presence of nesting birds protected under the Migratory Bird Treaty Act and any other species that may have protection.

The NMFS does not apply to the SNL action area.

a. What federally-listed species or federally-designated critical habitat are located in your "action area." *

The following list of species and critical habitat are as listed in the USFWS "My Project" IPac Trust Resource Report generated on June 23, 2015 for the action area.

Species:
Mexican Spotted Owl, Threatened
Southwestern Willow Flycatcher, Endangered
Sprague's Pipit, Candidate
Yellow-billed Cuckoo, Threatened
Rio Grande Silvery Minnow, Endangered
New Mexico Meadow Jumping Mouse, Endangered

Critical Habitats:
Rio Grande Silvery Minnow Critical Habitat Final designated
Yellow-billed Cuckoo Critical Habitat Proposed

b. Using the Criterion C Eligibility Form, 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 controls that were determined by EPA to be necessary to ensure that my discharges and/or discharge-related activities will have 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 controls necessary to ensure no likely adverse affects on listed species and critical habitat.

Date your Criterion C Eligibility Form was sent to EPA (in DD/MM/YYYY format) *

16 Jul 2015

* 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.

F: Historic Preservation

1. If your facility is not located in Indian country lands, is your facility located on a property of religious or cultural significance to an Indian tribe? *

○ Yes ◉ No

2. Using the instructions in Appendix F of the MSGP, under which historic properties preservation criterion listed in Part 1.1.4.7 are you eligible for coverage under this permit *

Criterion B - Subsurface stormwater controls will not affect historic properties

Certification Information

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate 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. 40 CFR 122.22 (d)

Certifier E-Mail *

jeffrey.harrell@nnsa.doe.gov

Form Action *

Approve

Appendix B-2

From:	NeT@epa.gov
To:	Moya, Jaime L
Cc:	Deal, Kathie J.
Subject:	[EXTERNAL] EPA Multi-Sector General Permit (MSGP) Notice of Intent (NOI) Submitted to EPA for 30-Day Review - Sandia National Laboratories, NPDES ID: NMR053122
Date:	Monday, August 31, 2015 4:17:36 PM
Attachments:	SubmittedNewNOIReceipt.pdf

2015-08-31

NeT Submission ID: MSGP-2192

Your Notice of Intent (NOI) requesting coverage for Sandia National Laboratories, 1515 Eubank Blvd SE Albuquerque NM 87123, under EPA's Multi-Sector General Permit (MSGP) has been certified and submitted to the EPA for review. The NPDES ID for this NOI is NMR053122. Your coverage under the MSGP begins at the conclusion of the 30-day waiting period, unless otherwise notified that your coverage has been delayed or denied. You will receive an email informing you once your coverage under the MSGP is active with a copy of the certified NOI attached.

For a copy of the form you submitted, please go to the History tab within NeT, which is accessible from https://cdx.epa.gov/epa_home.asp, and click on the View Receipt button for NeT Submission ID MSGP-2192.

For guidance about this process, please visit: http://water.epa.gov/polwaste/npdes/stormwater/Stormwater-eNOI-System-for-EPAs-MultiSector-General-Permit.cfm. For more information about the MSGP, including a copy of the permit, please visit: http://water.epa.gov/polwaste/npdes/stormwater/EPA-Multi-Sector-General-Permit-MSGP.cfm. If you have specific questions, please contact lee.won@epa.gov; lescure.nasrin@epa.gov; emily@avanticorporation.com; farris.erika@epa.gov; Christiane@avanticorporation.com; bius.catherine@epa.gov.

To access a history of your submissions, go to MyCDX within EPA's Central Data Exchange (CDX) and click on the Submission History tab. To see details about this submission, click on the Search tab within My Submissions, enter the following Submission ID value: _3e68def1-1d27-4399-9335-5e6261faf212, and click Search.

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

2015 NPDES Multi-Sector General Permit For Stormwater Discharges Associated With Industrial Activity (MSGP) Forms

United States Environmental Protection Agency
1200 Pennsylvania Ave, NW Washington, DC 20460

Note: This is a "smart form"; as you fill out the form, additional questions willl appear that you will need to answer.

Permit Information

1. What action would you like to take? *

File a New Notice of Intent Form

Submission of this Notice of Intent (NOI) constitutes notice that the operator identified in the Facility Operator Information section of this form requests authorization to discharge pursuant to the NPDES Stormwater Multi-Sector General Permit (MSGP) permit number identified in the Permit Information section of this form. Submission of this NOI also constitutes notice that the operator identified in the Facility Operator Information section of this form meets the eligibility conditions of Part 1.1 of the MSGP for the facility identified in the Facility Information section 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.

Operator Name (Organization Name) *

SANDIA NATIONAL LABORATORIES

Operator Name as Noted by the NOI Preparer

Sandia Corporation

2. Select the state/territory where your facility is located *

NM

3. Is your facility located on Indian Country lands? *

○ Yes ◉ No

4. Are you requesting coverage as a "federal operator" as defined in Appendix A? *

◉ Yes ○ No

5. Are you a new discharger or a new source as defined in Appendix A? * — ( ) Yes (•) No

5a. Have stormwater discharges from your facility been covered previously under an NPDES permit? * — (•) Yes ( ) No

5aa. Provide your most current NPDES ID (i.e., permit tracking number) if you had coverage under EPA's MSGP 2008 or the NPDES permit number if you had coverage under an EPA individual permit *

NMR05GQ63

6. Do you directly 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 3 water (Outstanding Natural Resource Water) (See Appendix L)? Your project will be considered to discharge to a Tier 3 water if the first water of the US to which you discharge is identified by a state, tribe, or EPA as a Tier 3 water. For discharges that enter a storm sewer system prior to discharge, the first water of the US to which you discharge is the waterbody that receives the stormwater discharge from the storm sewer system. * — ( ) Yes (•) No

7. Does your facility directly discharge to a Federal CERCLA site listed in Appendix P? For the purposes of this permit, a permittee discharges to a Federal CERCLA site if the discharge flows directly into the site through its own conveyance, or through a conveyance owned by others, such as a municipal separate storm sewer system. * — ( ) Yes (•) No

8. Has the Stormwater Pollution Prevention Plan (SWPPP) been prepared in advance of filing this NOI, as required? * — (•) Yes ( ) No

9. By indicating "Yes", 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 in Part 1.1.3. Any discharges not expressly authorized under the MSGP are not covered by the MSGP and they cannot become authorized by disclosure to EPA and/or a state via this Notice of Intent to be covered by the permit or by any other means (e.g., in the Stormwater Pollution Prevention Plan or during an inspection). 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 ( ) No

10. Master Permit Number

NMR050000

A: Facility Operator Information

1. Operator Name (Organization Name) *

SANDIA NATIONAL LABORATORIES

2. Street *

P.O. Box 5800 MS-0730 (correspondence mailing)

3. Supplemental Address

physical address same as facility address

4. City *	5. State *	6. Zip Code *	7. Facility County or Similar Govt. Subdivision *
Albuquerque	NM	87185-0730	Bernalillo

8. Phone (10-digits, No dashes) *	9. Extension	10. E-Mail *
5058448503		kjdeal@sandia.gov

Operator point of contact information

11. First Name *	12. Middle Initial	13. Last Name *	14. Professional Title *
Kathie	J	Deal	Stormwater Program Lead

B: Facility Information

1. Facility Name *

Sandia National Laboratories

☐ Facility address same as facility operator address

2. Street/Location *

1515 Eubank Blvd SE

3. Supplemental Address

4. City *	5. State *	6. Zip Code *	7. Facility County or Similar Govt. Subdivision *
Albuquerque	NM	87123	Bernalillo

Latitude/Longitude for the facility:

	8. Latitude (Decimal Degrees) *		9. Longitude (Decimal Degrees) *	10. Latitude/Longitude Data Source *	11. Horizontal Reference Datum
+	35.046	-	106.54	Other	NAD83

12. What is the ownership type of the facility *	13. Estimated area of industrial activity at your facility exposed to stormwater (to the nearest quarter acre) *
Federal Facility (U.S. Government)	978.75

Identify the applicable sector and subsector of your primary industrial activity (See Appendix D) that best represents the products produced or services rendered for which your facility is primarily engaged, as defined in the MSGP, and the 4-digit Standard Industrial Classification (SIC) code or 2-letter Activity Code:

15. Sector *	16. Primary SIC Code *
SECTOR K: HAZARDOUS WASTE TREATMENT, STORAGE, OR DISPOSAL FACILITIES	HZ: Hazardous Waste Treatment, Storage, or Disposal Facilities, including those that are operating under int

17. Subsector

: Hazardous Waste Treatment, Storage, or Disposal Facilities, including those that are operating under interim status or a permit under subtitle C of RCRA

18. Identify the applicable sectors(s) of any co-located industrial activity for which you are requesting permit coverage.

Sector	Subsector *	
SECTOR J: MINERAL MINING AND DRESSING	J1: Construction Sand and Gravel	Delete Sector
SECTOR L: LANDFILLS, LAND APPLICATION SITES, AND OPEN DUMPS	L1: All Landfill, Land Application Sites and Open Dumps	Delete Sector
SECTOR L: LANDFILLS, LAND APPLICATION SITES, AND OPEN DUMPS	L2: All Landfill, Land Application Sites and Open Dumps, except Municipal Solid Waste Landfill (	Delete Sector
SECTOR N: SCRAP RECYCLING FACILITIES	N1: Scrap Recycling and Waste Recycling Facilities except Source-Separated Recycling	Delete Sector
SECTOR N: SCRAP RECYCLING FACILITIES	N2: Source-separated Recycling Facility	Delete Sector
SECTOR P: LAND TRANSPORTATION AND WAREHOUSING	P1: Local and Highway Passenger Transportation	Delete Sector
SECTOR AC: ELECTRONIC, ELECTRICAL, PHOTOGRAPHIC, AND OPTICALÂ GOODS	AC1: Electronic and Electrical Equipment and Components, Except Computer Equipment	Delete Sector

Add Sector

22. Is your facility presently inactive and unstaffed? *

○ Yes ● No

C: Discharge Information

1. Does your facility discharge into any saltwater receiving waters? *

○ Yes ● No

2. What is the hardness of your receiving water(s) (see Appendix J) *

125-149.99 mg/L

3. Identify if the following Effluent Limitation Guideline(s) apply to any of your discharges

40 CFR Part/Subpart: Part 436, Subpart B	Eligible Discharges: Mine dewatering discharges at crushed stone mining facilities (SIC 1422 - 1429)	Affected MSGP Sector: J	New Source Date: N/A	Does your facility have any discharges subject to this effluent limitation guideline? * ◯ Yes ◉ No
40 CFR Part/Subpart: Part 436, Subpart C	Eligible Discharges: Mine dewatering discharges at construction sand and gravel mining facilities (SIC 1442)	Affected MSGP Sector: J	New Source Date: N/A	Does your facility have any discharges subject to this effluent limitation guideline? * ◯ Yes ◉ No
40 CFR Part/Subpart: Part 436, Subpart D	Eligible Discharges: Mine dewatering discharges at industrial sand mining facilities (SIC 1446)	Affected MSGP Sector: J	New Source Date: N/A	Does your facility have any discharges subject to this effluent limitation guideline? * ◯ Yes ◉ No
40 CFR Part/Subpart: Part 445, Subparts A & B	Eligible Discharges: Runoff from hazardous waste and non-hazardous waste landfills	Affected MSGP Sector: K, L	New Source Date: 2/2/2000	Does your facility have any discharges subject to this effluent limitation guideline? * ◯ Yes ◉ No

Outfalls

4. **List all of the stormwater outfalls from your facility. Each outfall must be identified by a unique 3-digit ID (e.g., 001, 002) or a 4-digit ID. Also provide the latitude and longitude in decimal degrees for each outfall.**

A. Outfall ID * 008

B. Latitude (Decimal Degrees) * + 34.985259

C. Longitude (Decimal Degrees) * - 106.536460

Lookup Receiving Waters Information

(This button will prepopulate the receiving water information associated with your outfall on your form. You may edit the information that is returned if you believe it is incorrect)

Delete Outfall

If for any reason the Lookup Receiving Water Information button does not prepopulate your form with receiving waters information, you must manually enter the information on your form.

5. Multiple Receiving Waters were returned for your outfall. Please select the receiving water that is associated with your outfall from this list: *

Unnamed Playa Lake (not a water of the U.S.)

Outfall Section

1. 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.
(You may edit the name of the water of the U.S. that was returned if incorrect.) *

Unnamed Playa Lake (not a water of the U.S.)

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

◯ Yes ◉ No

3. Has a TMDL been completed for this receiving waterbody? *

◯ Yes ◉ No

Outfalls

4. **List all of the stormwater outfalls from your facility. Each outfall must be identified by a unique 3-digit ID (e.g., 001, 002) or a 4-digit ID. Also provide the latitude and longitude in decimal degrees for each outfall.**

A. Outfall ID *		B. Latitude (Decimal Degrees) *		C. Longitude (Decimal Degrees) *
017	+	34.984846	-	106.559084

Lookup Receiving Waters Information

(This button will prepopulate the receiving water information associated with your outfall on your form. You may edit the information that is returned if you believe it is incorrect)

Delete Outfall

D. Substantially Identical to Any Outfalls Listed Above? *

○ Yes ◉ No

If for any reason the Lookup Receiving Water Information button does not prepopulate your form with receiving waters information, you must manually enter the information on your form.

Outfall Section

1. 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.
(You may edit the name of the water of the U.S. that was returned if incorrect.) *

Unnamed Playa Lake (not a water of the U.S.)

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

○ Yes ◉ No

3. Has a TMDL been completed for this receiving waterbody? *

○ Yes ◉ No

Outfalls

4. **List all of the stormwater outfalls from your facility. Each outfall must be identified by a unique 3-digit ID (e.g., 001, 002) or a 4-digit ID. Also provide the latitude and longitude in decimal degrees for each outfall.**

A. Outfall ID *		B. Latitude (Decimal Degrees) *		C. Longitude (Decimal Degrees) *
022	+	34.959080	-	106.474324

Lookup Receiving Waters Information

(This button will prepopulate the receiving water information associated with your outfall on your form. You may edit the information that is returned if you believe it is incorrect)

Delete Outfall

D. Substantially Identical to Any Outfalls Listed Above? *

○ Yes ◉ No

If for any reason the Lookup Receiving Water Information button does not prepopulate your form with receiving waters information, you must manually enter the information on your form.

5. Multiple Receiving Waters were returned for your outfall. Please select the receiving water that is associated with your outfall from this list: *

Unnamed Playa Lake (not a water of the U.S.)

Outfall Section

1. 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.
(You may edit the name of the water of the U.S. that was returned if incorrect.) *

Unnamed Playa Lake (not a water of the U.S.)

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

○ Yes ◉ No

3. Has a TMDL been completed for this receiving waterbody? *

○ Yes ◉ No

Outfalls

4. **List all of the stormwater outfalls from your facility. Each outfall must be identified by a unique 3-digit ID (e.g., 001, 002) or a 4-digit ID. Also provide the latitude and longitude in decimal degrees for each outfall.**

A. Outfall ID *		B. Latitude (Decimal Degrees) *		C. Longitude (Decimal Degrees) *
032	+	34.976156	-	106.507393

Lookup Receiving Waters Information

(This button will prepopulate the receiving water information associated with your outfall on your form. You may edit the information that is returned if you believe it is incorrect)

Delete Outfall

D. Substantially Identical to Any Outfalls Listed Above? *

○ Yes ◉ No

If for any reason the Lookup Receiving Water Information button does not prepopulate your form with receiving waters information, you must manually enter the information on your form.

Outfall Section

1. 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.
(You may edit the name of the water of the U.S. that was returned if incorrect.) *

Unnamed Playa Lake (not a water of the U.S.)

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

○ Yes ◉ No

3. Has a TMDL been completed for this receiving waterbody? *

○ Yes ◉ No

Outfalls

4. **List all of the stormwater outfalls from your facility. Each outfall must be identified by a unique 3-digit ID (e.g., 001, 002) or a 4-digit ID. Also provide the latitude and longitude in decimal degrees for each outfall.**

A. Outfall ID *		B. Latitude (Decimal Degrees) *		C. Longitude (Decimal Degrees) *
040	+	35.043632	-	106.543717

Lookup Receiving Waters Information

(This button will prepopulate the receiving water information associated with your outfall on your form. You may edit the information that is returned if you believe it is incorrect)

Delete Outfall

D. Substantially Identical to Any Outfalls Listed Above? *

○ Yes ◉ No

If for any reason the Lookup Receiving Water Information button does not prepopulate your form with receiving waters information, you must manually enter the information on your form.

5. Multiple Receiving Waters were returned for your outfall. Please select the receiving water that is associated with your outfall from this list: *

Tijeras Arroyo via Northern SNL MS4

Outfall Section

1. 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.
(You may edit the name of the water of the U.S. that was returned if incorrect.) *

Tijeras Arroyo via Northern SNL MS4

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

○ Yes ◉ No

3. Has a TMDL been completed for this receiving waterbody? *

○ Yes ◉ No

Outfalls

4. **List all of the stormwater outfalls from your facility. Each outfall must be identified by a unique 3-digit ID (e.g., 001, 002) or a 4-digit ID. Also provide the latitude and longitude in decimal degrees for each outfall.**

A. Outfall ID *		B. Latitude (Decimal Degrees) *		C. Longitude (Decimal Degrees) *
041	+	35.040773	-	106.550031

Lookup Receiving Waters Information

(This button will prepopulate the receiving water information associated with your outfall on your form. You may edit the information that is returned if you believe it is incorrect)

Delete Outfall

D. Substantially Identical to Any Outfalls Listed Above? *

○ Yes ◉ No

If for any reason the Lookup Receiving Water Information button does not prepopulate your form with receiving waters information, you must manually enter the information on your form.

5. Multiple Receiving Waters were returned for your outfall. Please select the receiving water that is associated with your outfall from this list: *

Tijeras Arroyo

Outfall Section

1. 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.
(You may edit the name of the water of the U.S. that was returned if incorrect.) *

Tijeras Arroyo

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

○ Yes ◉ No

3. Has a TMDL been completed for this receiving waterbody? *

○ Yes ◉ No

Outfalls

4. **List all of the stormwater outfalls from your facility. Each outfall must be identified by a unique 3-digit ID (e.g., 001, 002) or a 4-digit ID. Also provide the latitude and longitude in decimal degrees for each outfall.**

A. Outfall ID *		B. Latitude (Decimal Degrees) *		C. Longitude (Decimal Degrees) *
042	+	35.041399	-	106.543725

Lookup Receiving Waters Information

(This button will prepopulate the receiving water information associated with your outfall on your form. You may edit the information that is returned if you believe it is incorrect)

Delete Outfall

D. Substantially Identical to Any Outfalls Listed Above? *

○ Yes ◉ No

If for any reason the Lookup Receiving Water Information button does not prepopulate your form with receiving waters information, you must manually enter the information on your form.

5. Multiple Receiving Waters were returned for your outfall. Please select the receiving water that is associated with your outfall from this list: *

Tijeras Arroyo via Northern SNL MS4

Outfall Section

1. 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.
(You may edit the name of the water of the U.S. that was returned if incorrect.) *

Tijeras Arroyo via Northern SNL MS4

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

○ Yes ◉ No

3. Has a TMDL been completed for this receiving waterbody? *

○ Yes ◉ No

Outfalls

4. **List all of the stormwater outfalls from your facility. Each outfall must be identified by a unique 3-digit ID (e.g., 001, 002) or a 4-digit ID. Also provide the latitude and longitude in decimal degrees for each outfall.**

A. Outfall ID *		B. Latitude (Decimal Degrees) *		C. Longitude (Decimal Degrees) *
043	+	35.002045	-	106.468369

Lookup Receiving Waters Information

(This button will prepopulate the receiving water information associated with your outfall on your form. You may edit the information that is returned if you believe it is incorrect)

Delete Outfall

D. Substantially Identical to Any Outfalls Listed Above? *

○ Yes ◉ No

If for any reason the Lookup Receiving Water Information button does not prepopulate your form with receiving waters information, you must manually enter the information on your form.

Outfall Section

1. 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.
(You may edit the name of the water of the U.S. that was returned if incorrect.) *

Arroyo del Coyote

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

○ Yes ◉ No

3. Has a TMDL been completed for this receiving waterbody? *

○ Yes ◉ No

Outfalls

4. **List all of the stormwater outfalls from your facility. Each outfall must be identified by a unique 3-digit ID (e.g., 001, 002) or a 4-digit ID. Also provide the latitude and longitude in decimal degrees for each outfall.**

A. Outfall ID *: 043B

B. Latitude (Decimal Degrees) *: + 35.003472

C. Longitude (Decimal Degrees) *: - 106.465321

Lookup Receiving Waters Information

(This button will prepopulate the receiving water information associated with your outfall on your form. You may edit the information that is returned if you believe it is incorrect)

Delete Outfall

D. Substantially Identical to Any Outfalls Listed Above? *

◉ Yes ○ No

E. Substantially identical to outfall ID *: 043

If for any reason the Lookup Receiving Water Information button does not prepopulate your form with receiving waters information, you must manually enter the information on your form.

Outfall Section

1. 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.
(You may edit the name of the water of the U.S. that was returned if incorrect.) *

Arroyo del Coyote

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

○ Yes ◉ No

3. Has a TMDL been completed for this receiving waterbody? *

○ Yes ◉ No

Outfalls

4. **List all of the stormwater outfalls from your facility. Each outfall must be identified by a unique 3-digit ID (e.g., 001, 002) or a 4-digit ID. Also provide the latitude and longitude in decimal degrees for each outfall.**

A. Outfall ID *: 044

B. Latitude (Decimal Degrees) *: + 35.030046

C. Longitude (Decimal Degrees) *: - 106.544179

Lookup Receiving Waters Information

(This button will prepopulate the receiving water information associated with your outfall on your form. You may edit the information that is returned if you believe it is incorrect)

Delete Outfall

D. Substantially Identical to Any Outfalls Listed Above? *

( ) Yes (•) No

If for any reason the Lookup Receiving Water Information button does not prepopulate your form with receiving waters information, you must manually enter the information on your form.

5. Multiple Receiving Waters were returned for your outfall. Please select the receiving water that is associated with your outfall from this list: *

Tijeras Arroyo

Outfall Section

1. 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.
(You may edit the name of the water of the U.S. that was returned if incorrect.) *

Tijeras Arroyo

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

( ) Yes (•) No

3. Has a TMDL been completed for this receiving waterbody? *

( ) Yes (•) No

Outfalls

4. **List all of the stormwater outfalls from your facility. Each outfall must be identified by a unique 3-digit ID (e.g., 001, 002) or a 4-digit ID. Also provide the latitude and longitude in decimal degrees for each outfall.**

A. Outfall ID *		B. Latitude (Decimal Degrees) *		C. Longitude (Decimal Degrees) *
046	+	34.987029	-	106.552739

Lookup Receiving Waters Information

(This button will prepopulate the receiving water information associated with your outfall on your form. You may edit the information that is returned if you believe it is incorrect)

Delete Outfall

D. Substantially Identical to Any Outfalls Listed Above? *

( ) Yes (•) No

If for any reason the Lookup Receiving Water Information button does not prepopulate your form with receiving waters information, you must manually enter the information on your form.

Outfall Section

1. 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.
(You may edit the name of the water of the U.S. that was returned if incorrect.) *

Unnamed Playa Lake (not a water of the U.S.)

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

( ) Yes (•) No

3. Has a TMDL been completed for this receiving waterbody? *

( ) Yes (•) No

Outfalls

4. List all of the stormwater outfalls from your facility. Each outfall must be identified by a unique 3-digit ID (e.g., 001, 002) or a 4-digit ID. Also provide the latitude and longitude in decimal degrees for each outfall.

A. Outfall ID *		B. Latitude (Decimal Degrees) *		C. Longitude (Decimal Degrees) *
047	+	34.991814	-	106.544197

Lookup Receiving Waters Information

(This button will prepopulate the receiving water information associated with your outfall on your form. You may edit the information that is returned if you believe it is incorrect)

Delete Outfall

D. Substantially Identical to Any Outfalls Listed Above? *

○ Yes ● No

If for any reason the Lookup Receiving Water Information button does not prepopulate your form with receiving waters information, you must manually enter the information on your form.

Outfall Section

1. 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. (You may edit the name of the water of the U.S. that was returned if incorrect.) *

Unnamed Playa Lake (not a water of the U.S.)

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

○ Yes ● No

3. Has a TMDL been completed for this receiving waterbody? *

○ Yes ● No

Outfalls

4. List all of the stormwater outfalls from your facility. Each outfall must be identified by a unique 3-digit ID (e.g., 001, 002) or a 4-digit ID. Also provide the latitude and longitude in decimal degrees for each outfall.

A. Outfall ID *		B. Latitude (Decimal Degrees) *		C. Longitude (Decimal Degrees) *
048	+	34.998319	-	106.543602

Lookup Receiving Waters Information

(This button will prepopulate the receiving water information associated with your outfall on your form. You may edit the information that is returned if you believe it is incorrect)

Delete Outfall

D. Substantially Identical to Any Outfalls Listed Above? *

○ Yes ● No

If for any reason the Lookup Receiving Water Information button does not prepopulate your form with receiving waters information, you must manually enter the information on your form.

Outfall Section

1. 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. (You may edit the name of the water of the U.S. that was returned if incorrect.) *

Tijeras Arroyo via Southern SNL MS4

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

( ) Yes (•) No

3. Has a TMDL been completed for this receiving waterbody? *

( ) Yes (•) No

Outfalls

4. **List all of the stormwater outfalls from your facility. Each outfall must be identified by a unique 3-digit ID (e.g., 001, 002) or a 4-digit ID. Also provide the latitude and longitude in decimal degrees for each outfall.**

A. Outfall ID *: 049

B. Latitude (Decimal Degrees) *: + 34.971333

C. Longitude (Decimal Degrees) *: - 106.539327

Lookup Receiving Waters Information

(This button will prepopulate the receiving water information associated with your outfall on your form. You may edit the information that is returned if you believe it is incorrect)

Delete Outfall

D. Substantially Identical to Any Outfalls Listed Above? *

( ) Yes (•) No

If for any reason the Lookup Receiving Water Information button does not prepopulate your form with receiving waters information, you must manually enter the information on your form.

5. Multiple Receiving Waters were returned for your outfall. Please select the receiving water that is associated with your outfall from this list: *

Unnamed Playa Lake (not a water of the U.S.)

Outfall Section

1. 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.
(You may edit the name of the water of the U.S. that was returned if incorrect.) *

Unnamed Playa Lake (not a water of the U.S.)

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

( ) Yes (•) No

3. Has a TMDL been completed for this receiving waterbody? *

( ) Yes (•) No

Outfalls

4. **List all of the stormwater outfalls from your facility. Each outfall must be identified by a unique 3-digit ID (e.g., 001, 002) or a 4-digit ID. Also provide the latitude and longitude in decimal degrees for each outfall.**

A. Outfall ID *: 051

B. Latitude (Decimal Degrees) *: + 34.999480

C. Longitude (Decimal Degrees) *: - 106.486405

Lookup Receiving Waters Information

(This button will prepopulate the receiving water information associated with your outfall on your form. You may edit the information that is returned if you believe it is incorrect)

Delete Outfall

D. Substantially Identical to Any Outfalls Listed Above? *

( ) Yes (•) No

If for any reason the Lookup Receiving Water Information button does not prepopulate your form with receiving waters information, you must manually enter the information on your form.

5. Multiple Receiving Waters were returned for your outfall. Please select the receiving water that is associated with your outfall from this list: *

Arroyo del Coyote

Outfall Section

1. 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.
(You may edit the name of the water of the U.S. that was returned if incorrect.) *

Arroyo del Coyote

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

( ) Yes (•) No

3. Has a TMDL been completed for this receiving waterbody? *

( ) Yes (•) No

Outfalls

4. **List all of the stormwater outfalls from your facility. Each outfall must be identified by a unique 3-digit ID (e.g., 001, 002) or a 4-digit ID. Also provide the latitude and longitude in decimal degrees for each outfall.**

A. Outfall ID *		B. Latitude (Decimal Degrees) *		C. Longitude (Decimal Degrees) *
052	+	34.998173	-	106.535993

Lookup Receiving Waters Information

(This button will prepopulate the receiving water information associated with your outfall on your form. You may edit the information that is returned if you believe it is incorrect)

Delete Outfall

D. Substantially Identical to Any Outfalls Listed Above? *

( ) Yes (•) No

If for any reason the Lookup Receiving Water Information button does not prepopulate your form with receiving waters information, you must manually enter the information on your form.

Outfall Section

1. 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.
(You may edit the name of the water of the U.S. that was returned if incorrect.) *

Tijeras Arroyo via Southern SNL MS4

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

( ) Yes (•) No

3. Has a TMDL been completed for this receiving waterbody? *

( ) Yes (•) No

Outfalls

4. **List all of the stormwater outfalls from your facility. Each outfall must be identified by a unique 3-digit ID (e.g., 001, 002) or a 4-digit ID. Also provide the latitude and longitude in decimal degrees for each outfall.**

A. Outfall ID *		B. Latitude (Decimal Degrees) *		C. Longitude (Decimal Degrees) *
045	+	34.992630	-	106.546386

Lookup Receiving Waters Information

(This button will prepopulate the receiving water information associated with your outfall on your form. You may edit the information that is returned if you believe it is incorrect)

Delete Outfall

D. Substantially Identical to Any Outfalls Listed Above? *

○ Yes ◉ No

If for any reason the Lookup Receiving Water Information button does not prepopulate your form with receiving waters information, you must manually enter the information on your form.

Outfall Section

1. 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.
(You may edit the name of the water of the U.S. that was returned if incorrect.) *

Unnamed Playa Lake (not a water of the U.S.)

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

○ Yes ◉ No

3. Has a TMDL been completed for this receiving waterbody? *

○ Yes ◉ No

Outfalls

4. **List all of the stormwater outfalls from your facility. Each outfall must be identified by a unique 3-digit ID (e.g., 001, 002) or a 4-digit ID. Also provide the latitude and longitude in decimal degrees for each outfall.**

A. Outfall ID *		B. Latitude (Decimal Degrees) *		C. Longitude (Decimal Degrees) *
045B	+	34.991355	-	106.546352

Lookup Receiving Waters Information

(This button will prepopulate the receiving water information associated with your outfall on your form. You may edit the information that is returned if you believe it is incorrect)

Delete Outfall

D. Substantially Identical to Any Outfalls Listed Above? *

◉ Yes ○ No

E. Substantially identical to outfall ID *

045

If for any reason the Lookup Receiving Water Information button does not prepopulate your form with receiving waters information, you must manually enter the information on your form.

Outfall Section

1. 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.
(You may edit the name of the water of the U.S. that was returned if incorrect.) *

Unnamed Playa Lake (not a water of the U.S.)

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

○ Yes ◉ No

3. Has a TMDL been completed for this receiving waterbody? *

○ Yes ◉ No

Add Another Outfall

Provide the following information about your outfall latitude longitude.

5. Latitude/Longitude Data Source *: GPS

6. Horizontal Reference Datum: NAD83

7. Does your facility discharge into a Municipal Separate Storm Sewer System (MS4)? *

◉ Yes ○ No

7a. Provide the name of the MS4 Operator *: Department of Energy and Sandia Corporation

8. Do 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) (See Appendix L)? *

○ Yes ◉ No

D: Stormwater Pollution Prevention Plan (SWPPP) Information

SWPPP Contact Information

1. First Name *: Kathie

2. Middle Initial: J

3. Last Name *: Deal

4. Professional Title *: Stormwater Program Lead

5. Phone (10-digits, No dashes) *: 5058448503

6. Extension:

7. E-Mail *: kjdeal@sandia.gov

8. 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 *: https://repository.unm.edu/handle/1928/29607

☐ Option 2: Provide the following information from your SWPPP.

E: 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? *

Criterion C – Discharges and discharge-related activities are not likely to adversely affect 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). *

There are currently no federally listed threatened or endangered plant or animal species that occur on Kirtland Air Force Base. Critical habitat for the action area is limited to the outfall where Tijeras Arroyo, an ephemeral arroyo, discharges into the Rio Grande. Because of the ephemeral flow of this arroyo, stormwater discharges and discharge-related activities are not likely to adversely affect the critical habitat. Although five threatened or endangered species are recognized as having the potential for occurring in the action area, it is not anticipated that stormwater discharges would impact these protected species. The surrounding areas have been extensively developed and in use for more than 50 years and it is unlikely that habitat for any species of concern is present within the project area or surrounding vicinity. The conclusion of no impact is based on previous experience in the area with similar projects. SNL maintains an extensive record of biological surveys that have been previously conducted. To ensure no impact, following completion of a National Environmental Policy Act review, the Environmental Programs Department at SNL conducts a survey prior to construction activities to determine the presence of nesting birds protected under the Migratory Bird Treaty Act and any other species that may have protection.

The NMFS does not apply to the SNL action area.

a. What federally-listed species or federally-designated critical habitat are located in your "action area." *

The following list of species and critical habitat are as listed in the USFWS "My Project" IPac Trust Resource Report generated on June 23, 2015 for the action area.

Species:
Mexican Spotted Owl, Threatened
Southwestern Willow Flycatcher, Endangered
Sprague's Pipit, Candidate
Yellow-billed Cuckoo, Threatened
Rio Grande Silvery Minnow, Endangered
New Mexico Meadow Jumping Mouse, Endangered

Critical Habitats:
Rio Grande Silvery Minnow Critical Habitat Final designated
Yellow-billed Cuckoo Critical Habitat Proposed

b. Using the Criterion C Eligibility Form, 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 controls that were determined by EPA to be necessary to ensure that my discharges and/or discharge-related activities will have 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 controls necessary to ensure no likely adverse affects on listed species and critical habitat.

Date your Criterion C Eligibility Form was sent to EPA (in DD/MM/YYYY format) *

16 Jul 2015

* 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.

F: Historic Preservation

1. If your facility is not located in Indian country lands, is your facility located on a property of religious or cultural significance to an Indian tribe? *

○ Yes ◉ No

2. Using the instructions in Appendix F of the MSGP, under which historic properties preservation criterion listed in Part 1.1.4.7 are you eligible for coverage under this permit *

Criterion B - Subsurface stormwater controls will not affect historic properties

Certification Information

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate 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. 40 CFR 122.22 (d)

Certifier E-Mail *	Form Action *
jlmoya@sandia.gov	Approve

Appendix B-3

Department of Energy
National Nuclear Security Administration
Sandia Field Office
P.O. Box 5400
Albuquerque, NM 87185

APR 2 8 2017

CERTIFIED MAIL-RETURN RECEIPT REQUESTED

Mr. Nasim Jahan
USEPA REGION 6
1445 Ross Avenue
Suite 1200
Mail Code: 6WQ
Dallas, Texas 75202-2733

Ms. Nelly Smith
USEPA REGION 6
1445 Ross Avenue
Suite 1200
Mail Code: 6WQ
Dallas, Texas 75202-2733

Mr. Robert Houston
USEPA REGION 6
1445 Ross Avenue
Suite 1200
Mail Code: 6EN
Dallas, Texas 75202-2733

Subject: Notification of Management and Operating Contractor Name Change, Sandia National Laboratories/New Mexico

Dear Mr. Jahan, Ms. Smith and Mr. Houston:

The Department of Energy/National Nuclear Security Administration (DOE/NNSA) is submitting this letter to notify the Environmental Protection Agency that the current cited Operator/Permittee, Sandia Corporation, is undergoing a name change to National Technology and Engineering Solutions of Sandia, LLC. The name change will be effective on May 1, 2017. As the Operator under the Permit remains the same, there is no transfer of requirements to a new Operator. This notice covers the following Permits:

1. Multi-Sector General Permit, Tracking Number NMR053122
2. Middle Rio Grande Watershed Based Municipal Separate Storm Sewer System Permit, Tracking Number NMR04A012

We are further inquiring whether the Environmental Protection Agency requests that the current cited Operator/Permittee submit a revised Notice of Intent or if this letter is sufficient. Please notify Steven Black at (505) 845-6885 or Steven.Black@nnsa.doe.gov of this determination.

Sincerely,

James W. Todd
Assistant Manager for Engineering

cc:
Shelly Lemon, Chief
NMED/SWQB
P.O. BOX 5469, Santa Fe, New Mexico 87502
Stephen Younger, NTESS
David Douglass, NTESS
Rosemary Avery, SNL/NM
Amy Blumberg, SNL/NM
Terry Cooper, SNL/NM
Kathie Deal, SNL/NM
Darrell Fong, SNL/NM
Andrew Gough, SNL/NM
Jaime Moya, SNL/NM
Douglas Vetter, SNL/NM
Susan Lacy, SFO/ENG
David Rast, SFO/ENG
Steven Black, SFO/ENG
729559

Appendix B-4

From:	donotreply@epa.gov
To:	Harrell, Jeffrey P. (SFO)
Cc:	Daniel, Carolyn; rachel@avanticorporation.com; nonnie@avanticorporation.com; connor@avanticorporation.com; zach@avanticorporation.com; farris.erika@epa.gov; nguyen.helen@epa.gov; emily@avanticorporation.com; julie@avanticorporation.com; paola@avanticorporation.com; jahan.nasim@epa.gov
Subject:	[EXTERNAL] EPA Multi-Sector General Permit (MSGP) Notice of Intent (NOI) Changes Accepted – Sandia National Laboratories, NPDES ID: NMR053114, NeT Submission ID: MSGP-23318
Date:	Monday, March 12, 2018 4:29:19 PM
Attachments:	AcceptedChangeNOIReceipt.pdf

2018-03-12

Your Notice of Intent (NOI) requesting coverage for Sandia National Laboratories, 1515 Eubank Blvd SE Albuquerque NM 87123 under EPA's Multi-Sector General Permit (MSGP) has been updated.

Attached to this email, you will find a copy of your completed NOI form. To access your NOI in NeT, please visit: https://cdx.epa.gov/epa_home.asp.

Please note that your monitoring and reporting requirements under the MSGP may have changed as a result of changes made to your NOI. The MSGP includes five types of required analytical monitoring, one or more of which may now 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).

Your monitoring requirements and sample frequency will be prepopulated on your electronic Discharge Monitoring Report (DMR) in EPA's NetDMR system, which is accessed at http://www.epa.gov/netdmr/. In order to obtain access to this system, you must complete the electronic signature process. Please remember that the first individual that goes into NetDMR to create their account must be the person who will be signing and certifying the DMRs for the facility. Also, if this person is not a responsible official (e.g., for a corporation this would be a corporate officer) then they must receive authorization from the responsible official as part of the subscriber agreement submitted by the facility. Please refer to the following guidance for information about submitting monitoring reports through NetDMR: http://www2.epa.gov/national-pollutant-discharge-elimination-system-npdes/stormwater-discharges-industrial-activities#ereporting. Please refer to EPA's Industrial Stormwater Monitoring and Sampling Guide at https://www.epa.gov/npdes/stormwater-discharges-industrial-activities#msgp for guidance about monitoring.

Please note that this email does not represent a determination by EPA regarding the validity of the information you provided in your NOI. Your eligibility for coverage under this permit is based on the validity of the certification you provided. Your electronic signature on the NOI form certifies that you have read, understood, and are implementing all of the applicable requirements. An important aspect of this certification requires that you have correctly determined whether you are eligible for coverage under this permit.

The 2015 MSGP and additional guidance are available at:
https://www.epa.gov/npdes/stormwater-discharges-industrial-activities#msgp.

If you have questions about this email or about NeT, please call the EPA NOI Processing Center at 1-866-352-7755 (toll free) or send an email to noi@avanticorporation.com. If you have questions regarding the MSGP, please contact EPA at .

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

2015 NPDES Multi-Sector General Permit For Stormwater Discharges Associated With Industrial Activity (MSGP) Forms

United States Environmental Protection Agency
1200 Pennsylvania Ave, NW Washington, DC 20460

Note: This is a "smart form"; as you fill out the form, additional questions willl appear that you will need to answer.

Permit Information

1. What action would you like to take? *

Change an Existing Notice of Intent Form (e.g. Make changes to Facility information, Discharge information, Monitoring requirements, etc.)

Submission of this Notice of Intent (NOI) constitutes notice that the operator identified in the Facility Operator Information section of this form requests authorization to discharge pursuant to the NPDES Stormwater Multi-Sector General Permit (MSGP) permit number identified in the Permit Information section of this form. Submission of this NOI also constitutes notice that the operator identified in the Facility Operator Information section of this form meets the eligibility conditions of Part 1.1 of the MSGP for the facility identified in the Facility Information section 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.

Operator Name (Organization Name)

DOE Sandia Field Office

Operator Name as Noted by the NOI Preparer

Department of Energy

Provide the existing NPDES ID for the Notice of Intent that you would like to update and click the Submit button.

2. NPDES ID *

NMR053114: DOE Sandia Field Office

☒ Confirm NPDES ID: NMR053114: DOE Sandia Field Office *

3. Which type of change are you making? Options 2 and 3 cannot be selected together on the same form. If you need to make both Facility Monitoring Changes (option 2) and changes to Discharge Information, SIC Code/Activity Code, Sectors/Subsectors, or Outfall information (option 3), please submit two separate forms. Submit any changes under option 3 before submitting Facility Monitoring Changes (option 2). If you have previously submitted Facility Monitoring Changes (option 2) for this NPDES ID, please contact your EPA Regional permitting authority before submitting changes under option 3.

☒ 1. Facility Operator Info (only for typographical errors or re-naming without change of ownership), Facility Name/Address, Other Permit Number, SWPPP Information, Estimated Area of Industrial Activity, MS4 Discharge, or Historic Preservation Criterion

☐ 2. Please indicate if any of the below monitoring changes applies to your facility. Reporting any of the below changes to your monitoring requirements will trigger changes to your monitoring requirements in EPA's NetDMR system (e.g., if you report below that you are no longer subject to benchmark monitoring for all parameters, your NetDMR form will no longer be prepopulated with your benchmark monitoring requirements).

* Note that if you have changes to your monitoring requirements that are not described below, you must contact your Regional permitting authority who will be able to change your monitoring requirements in NetDMR.

Options C and D are mutually exclusive and cannot be selected together or with any other option. Additionally, options A and E cannot be selected together. If you need to submit Facility Monitoring Changes that

☐ 3. Discharge Information, SIC Code/Activity Code, Sectors/Subsectors, Outfall information

☐ 4. Endangered Species Criterion

2. Select the state/territory where your facility is located *

NM

3. Is your facility located on Indian Country lands? *

○ Yes ◉ No

4. Are you requesting coverage as a "federal operator" as defined in Appendix A? *

◉ Yes ○ No

5. Are you a new discharger or a new source as defined in Appendix A? *

○ Yes ◉ No

5a. Have stormwater discharges from your facility been covered previously under an NPDES permit? *

◉ Yes ○ No

5aa. Provide your most current NPDES ID (i.e., permit tracking number) if you had coverage under EPA's MSGP 2008 or the NPDES permit number if you had coverage under an EPA individual permit *

NMR05GP29

6. Do you directly 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 3 water (Outstanding National Resource Water) (See Appendix L)? Your project will be considered to discharge to a Tier 3 water if the first water of the US to which you discharge is identified by a state, tribe, or EPA as a Tier 3 water. For discharges that enter a storm sewer system prior to discharge, the first water of the US to which you discharge is the waterbody that receives the stormwater discharge from the storm sewer system. *

○ Yes ◉ No

7. Does your facility directly discharge to a Federal CERCLA site listed in Appendix P? For the purposes of this permit, a permittee discharges to a Federal CERCLA site if the discharge flows directly into the site through its own conveyance, or through a conveyance owned by others, such as a municipal separate storm sewer system. *

○ Yes ◉ No

8. Has the Stormwater Pollution Prevention Plan (SWPPP) been prepared in advance of filing this NOI, as required? *

◉ Yes ○ No

9. By indicating “Yes”, 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 ○ No

10. Master Permit Number

NMR050000

A: Facility Operator Information

1. Operator Name (Organization Name) *
DOE Sandia Field Office

2. Street *
P.O. Box 5400 (correspondence mailing)

3. Supplemental Address
physical address same as facility address

4. City *	5. State/Providence *	6. ZIP Code *	7. Facility County or Similar Govt. Subdivision *
Albuquerque	NM	87185-5400	Bernalillo

8. Phone (10-digits, No dashes) *	9. Extension	10. E-Mail *
5058456885		Steven.Black@nnsa.doe.gov

Operator point of contact information

11. First Name *	12. Middle Initial	13. Last Name *	14. Professional Title *
Steven	R	Black	Water Quality Program Manager

B: Facility Information

1. Facility Name *
Sandia National Laboratories

2. Street/Location *
1515 Eubank Blvd SE

3. Supplemental Address

4. City *	5. State *	6. ZIP Code *	7. Facility County or Similar Govt. Subdivision *
Albuquerque	NM	87123	Bernalillo

Latitude/Longitude for the facility:

	8. Latitude (Decimal Degrees) *		9. Longitude (Decimal Degrees) *	10. Latitude/Longitude Data Source *	11. Horizontal Reference Datum
+	35.046	-	106.54	Other	NAD83

12. What is the ownership type of the facility? *	13. Estimated area of industrial activity at your facility exposed to stormwater (to the nearest quarter acre) *
Federal Facility (U.S. Government)	978.75

D: Stormwater Pollution Prevention Plan (SWPPP) Information

SWPPP Contact Information

1. First Name *	2. Middle Initial	3. Last Name *	4. Professional Title *
Kathie	J	Deal	Stormwater Program Lead

5. Phone (10-digits, No dashes) *	6. Extension	7. E-Mail *
5058448503		kjdeal@sandia.gov

8. 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 *

http://digitalrepository.unm.edu/snl_msgp/

☐ Option 2: Provide the following information from your SWPPP.

F: Historic Preservation

1. If your facility is not located in Indian country lands, is your facility located on a property of religious or cultural significance to an Indian tribe? *

○ Yes ◉ No

2. Using the instructions in Appendix F of the MSGP, under which historic properties preservation criterion listed in Part 1.1.4.7 are you eligible for coverage under this permit? *

Criterion B - Subsurface stormwater controls will not affect historic properties

Certification Information

Certifier E-Mail *

jeffrey.harrell@nnsa.doe.gov

☒ Confirm Certifier: jeffrey.harrell@nnsa.doe.gov *

Appendix B-5

Suggested Format for Submitting a Change Notice of Intent (NOI)

Instructions:

✓ **Step 1:** Provide your NPDES ID Number and Operator Name from your original NOI.

NPDES ID Number: N M R 0 5 3 1 1 4

Operator Name: D e p a r t m e n t o f E n e r g y

✓ **Step 2:** Use the NOI form on the subsequent pages to indicate the items for which you are submitting this modification. Only enter information you wish to change. You may only use this form to modify an NOI that you submitted to EPA for coverage under the 2015 MSGP.

✓ **Step 3:** If necessary, use the box below to provide additional information about the change you are reporting if you are unable to annotate the change directly in the form. For example: *"Per Part 7.4 our facility has met all of our benchmark monitoring requirements for Outfalls 001 and 002, and the average over the last four quarters is below each respective benchmark criteria, as such we are submitting this Change NOI to request that our benchmark monitoring be discontinued for the remainder of the permit term".*

Additional Information on Change NOI:

Approval to use this paper Change NOI form has been granted by EPA in order to maintain New Mexico state-specific standards on the MSGP NetDMR. Refer to Section A below.
A newly identified eligible site under Sector N2 (Scrap and Waste Materials, Source-separated Recycling) of the 2015 MSGP, has been added: Outfall ID 057, "STENT 11 (MSP2)", Refer to Section E below and the SWPPP, Appendix E2 for details.
Additional changes: Per Part 7.4 our facility has met all of our benchmark monitoring requirements for Outfalls 017, 040, 048, 049, 051 and 052 (refer to SWPPP, Appendix E3).
Outfalls 022, 032, 043, and 045 have been approved as complete under the facility hazardous waste permit and no longer meet criteria for eligibility under the 2015 MSGP (refer to SWPPP, Appendix E2).
Outfalls 041 and 042 are covered under Sector N2 which does not require benchmark monitoring (refer to SWPPP, Appendix E2)
See also changes for points of contact in Sections C and F below.

✓ **Step 4:** A certifying official must complete the certification information section and sign in wet ink. This form must have an original signature in ink - do not sent a photocopy!

✓ **Step 5:** Mail your Change NOI form to one of the following addresses:

For Regular U.S. Mail Delivery:
Stormwater Notice Processing Center
Mail Code 4203M, ATTN: 2015 MSGP
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
U.S. EPA
1201 Constitution Avenue, NW
Washington, DC 20004

NPDES FORM 3510-6	EPA	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.

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 approval:

Waiver granted: ☐ 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 approval obtained: 06/05/2019

* **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, you must file this form electronically using the NPDES eReporting Tool (NeT) at http://water.epa.gov/polwaste/npdes/stormwater/Stormwater-eNOI-System-for-EPAs-MultiSector-General-Permit.cfm**

B. Permit Information

NPDES ID (EPA Use Only):

1. Master Permit Number: (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? ☐ YES ☐ 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?

☐ YES ☐ NO

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:

C. Facility Operator Information

1. Operator Information:

Operator Name: Department of Energy

Mailing Address:

Street: PO Box 5400

City: Albuquerque State: NM ZIP Code: 87185-5400

County or Similar Government Subdivision: Bernalillo

Phone: 505-845-6885 Ext.

E-mail: victoria.branson@nnsa.doe.gov

2. Operator Point of Contact Information:

First Name, Middle Initial, Last Name: Victoria R Branson

Title: Water Quality Program Manager

3. NOI Preparer Information (Complete if NOI was prepared by someone other than the certifier):

First Name, Middle Initial, Last Name: Carolyn L Daniel

Organization: Sandia National Laboratories

Phone: 505-284-9986 Ext.

E-mail: cdaniel@sandia.gov

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 ☐ WGS 84

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
☐ Corporation ☐ State Government ☐ Tribal Government ☐ School District
☐ District ☐ Mixed Ownership (e.g. Public/Private) ☐ Municipal or Water District

7. Estimated area of industrial activity at your facility exposed to stormwater: ______________ (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:** |_|_|_|

Identify the applicable sector(s) and subsector(s) of any co-located industrial activity for which you are requesting permit coverage:

Sector: |_|_| **Subsector:** |_|_|_| **Sector:** |_|_| **Subsector:** |_|_|_| **Sector:** |_|_| **Subsector:** |_|_|_|

Sector: |_|_| **Subsector:** |_|_|_| **Sector:** |_|_| **Subsector:** |_|_|_| **Sector:** |_|_| **Subsector:** |_|_|_|

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? ☐ YES ☐ NO

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 ☐ Aluminum 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

If yes, which effluent limitation guidelines apply to your stormwater discharges?

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)	C	4/8/1974	☐
Part 423	Coal pile runoff at steam electric generating facilities	O	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	☐

[1]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)

List all of the stormwater outfalls from your facility. Each outfall 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.		**For each outfall, provide the following receiving water information:** 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	057 (Sector N2)	**Tijeras Arroyo** (AU NM-9000.A_70) **via SNL MS4**		**TMDL Name and ID:**
Latitude	35.04087			**Pollutant(s) for which there is a TMDL:**
Longitude	-106.54338			
Outfall ID				**TMDL Name and ID:**
Latitude				**Pollutant(s) for which there is a TMDL:**
Longitude				

If substantially identical to other outfall, list identical outfall ID: ______________

Outfall ID				TMDL Name and ID: Pollutant(s) for which there is a TMDL:
Latitude				
Longitude				
If substantially identical to other outfall, list identical outfall ID: ______________				
Outfall ID				TMDL Name and ID: Pollutant(s) for which there is a TMDL:
Latitude				
Longitude				
If substantially identical to other outfall, list identical outfall ID: ______________				
Outfall ID				TMDL Name and ID: Pollutant(s) for which there is a TMDL:
Latitude				
Longitude				
If substantially identical to other outfall, list identical outfall ID: ______________				
Outfall ID				TMDL Name and ID: Pollutant(s) for which there is a TMDL:
Latitude				
Longitude				
If substantially identical to other outfall, 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: U.S. Department of Energy and National Technology & Engineering Solutions of Sandia

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)? 125 (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 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: John T Kay

Professional Title: SNL Stormwater Program Lead

Phone: 505-844-9485 Ext.

E-mail: jtkay@sandia.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: http://digitalrepository.unm.edu/snl_msgp/

☐ **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 stormwater 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, and any other measures taken to comply with the requirements in Part 2.2 Water Quality-Based Effluent Limitations (see 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):

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)?*

☐ 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 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-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 Eligibilty 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.

Date your *Criterion C Eligibility Form* was sent to EPA: |_|_| / |_|_| / |_|_|_|_|

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 Service.

H. Historic Preservation

1. If your facility is not located on Indian country lands, is your facility located on a property of religious or cultural significance to an Indian tribe?

   ☐ YES ☐ NO

   If yes, provide the name of the Indian tribe associated with the property:__________

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)?

   ☐ A ☐ B ☐ C ☐ D

I. Certification Information

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

First Name, Middle Initial, Last Name: Jeffrey P Harrell

Title: Manager DOE Sandia Field Office

Signature: Harrell Date: 07/02/2019

E-mail: jeffrey.harrell@nnsa.doe.gov

Instructions for Completing EPA Form 3510-6

Notice of Intent (NOI) for Stormwater Discharges Associated with Industrial Activity Under the NPDES Multi-Sector General Permit

NPDES Form Date (06/15) This Form Replaces From 3510-6 (09/08) Form Approved OMB No. 2040-0004

Who Must File an NOI Form

Under section 402(p) of the Clean Water Act (CWA) and regulations at 40 CFR Part 122, stormwater discharges associated with industrial activity are prohibited to waters of the United States unless authorized under a National Pollutant Discharge Elimination System (NPDES) permit. You can obtain coverage under the MSGP by submitting a completed Notice of Intent (NOI) if you are an operator a facility:

- that is located in a jurisdiction where EPA is the permitting authority, listed in Appendix C of the MSGP,
- that discharges stormwater associated with industrial activities, identified in Appendix D of the MSGP,
- that meets the eligibility requirements in Part 1.1 of the permit,
- that has developed a stormwater pollution prevention plan (SWPPP) in accordance with Part 5 of the MSGP; and
- that installs and implements control measures in accordance with Part 2 and Part 8 to meet numeric and non-numeric effluent limits.

Completing the Form

Obtain and read a copy of the 2015 MSGP, viewable at http://water.epa.gov/polwaste/npdes/stormwater/EPA-Multi-Sector-General-Permit-MSGP.cfm. To complete this form, type or print, using uppercase letters, in the appropriate areas only. Please place each character between the marks. Abbreviate if necessary to stay within the number of characters allowed for each item. Use only one space for breaks between words, but not for punctuation marks unless they are needed to clarify your response. **Please submit original document with signature in ink - do not send a photocopied signature.**

Section A. Approval to Use Paper NOI Form

You must indicate whether you have been granted a waiver from electronic reporting from the EPA Regional Office. Note that you are not authorized to use this paper NOI form unless the EPA Regional Office has approved its use. Where you have obtained approval to use this form, indicate the waiver that you have been granted, the name of the EPA staff person who granted the waiver, and the date that approval was provided.

See http://water.epa.gov/polwaste/npdes/stormwater/Stormwater-Contacts.cfm for a list of EPA Regional Office contacts.

Section B. Permit Information

Provide the master permit number of the permit under which you are applying for coverage (see Appendix C of the general permit for the list of eligible master permit numbers).

You must indicate whether you are a new discharger or a new source (see Appendix A for the definitions). If you are not a new discharger or a new source, you must indicate whether stormwater discharges from your facility have been previously covered under another NPDES permit. If yes, you must provide the unique NPDES ID (i.e., permit tracking number) for the previous permit your facility was covered under.

Section C. Facility Operator Information

Provide the legal name of the person, firm, public organization, or any other entity that operates the facility described in this NOI. An operator of a facility is the legal entity that controls the operation of the facility. Refer to Appendix A of the permit for the definition of "operator". Provide the operator's mailing address, phone number, and e-mail. Correspondence for the NOI will be sent to this address. Also provide the name and title for the operator point of contact (note that the point of contact name may be the same as the operator name).

If the NOI was prepared by someone other than the certifier (for example, if the NOI was prepared by the facility SWPPP contact or a consultant for the certifier's signature), include the full name, organization, phone number, and email address of the NOI preparer.

Section D. Facility Information

Enter the official or legal name and complete address, including city, state, ZIP code, and county or similar government subdivision of the facility. If the facility lacks a street address, indicate the general location of the facility (e.g., Intersection of State Highways 61 and 34). Complete facility information must be provided for permit coverage to be granted.

Provide the latitude and longitude of your facility in decimal degrees format. The latitude and longitude of your facility can be determined in several different ways, including through the use of global positioning system (GPS) receivers, U.S. Geological Survey (U.S.G.S.) topographic or quadrangle maps. Refer to http://transition.fcc.gov/mb/audio/bickel/DDDMMSS-decimal.html/ for assistance in providing the proper latitude/longitude format. For consistency, EPA requests that measurements be taken from the approximate center of the facility. Specify which method you used to determine latitude and longitude. If a U.S.G.S. topographic map is used, specify the scale of the map used. Enter the horizontal reference datum for your latitude and longitude. The horizontal reference datum used on USGS topographic maps is shown on the bottom left corner of USGS topographic maps; it is also available for GPS receivers.

Indicate whether the facility is on Indian country lands, and if so, provide the name of the Indian tribe associated with the area of Indian country (including name of Indian reservation, if applicable).

Indicate whether you are seeking coverage under this permit as a "federal operator" as defined in Appendix A. Also check the ownership type for the facility (e.g., Federal Facility, Privately Owned Facility, Municipality, County Government, Corporation, State Government, Tribal Government, School District, District, Mixed Ownership [e.g., public/private], Municipal or Water District).

Enter the estimated area of industrial activity at your facility exposed to stormwaterto the nearest quarter acre.

List the four-digit Standard Industrial Classification (SIC) code or two character activity code that best describes the primary industrial activities performed by your facility under which you are required to obtain permit coverage. Your primary industrial activity includes any activities performed on-site which are (1) identified by the facility's primary SIC code and included in the descriptions of 40 CFR 122.26(b)(14)(ii), (iii), (vi), or (viii); or (2) included in the narrative descriptions of 40 CFR 122.26(b)(14)(i), (iv), (v), (vii), or (ix). See Appendix D of the MSGP for a complete list of SIC codes and activities codes covered under the MSGP. Also provide the applicable sector and subsector associated with the SIC code or activity code for your primary industrial activities. For a complete list of sector and subsector codes, see Appendix D of the MSGP.

If your facility has co-located industrial activities that are not identified as your primary industrial activity, identify the sector and subsector codes that describe these other industrial activities.

For Sector S facilities (Air Transportation), indicate whether you anticipate that the entire airport facility will use 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 so, additional effluent limits and monitoring conditions apply to your discharge (see Part 8.S of the permit).

For Sector G facilities (Metal Mining), check the type of ore(s) mined at the facility.

Indicate whether your facility is currently inactive and unstaffed. Note that if your facility becomes inactive and unstaffed during the permit term, you must submit an NOI modification to reflect the change.

Section E. Discharge Information

You must confirm that you understand that the MSGP only authorizes the allowable stormwater discharges listed in Part 1.1.2 and the allowable non-stormwater discharges listed in Part 1.1.3. Any discharges not expressly authorized under the MSGP are not covered by the MSGP or the permit shield provision of the CWA Section 402(k) and they cannot become authorized or shielded by disclosure to EPA, state, or local authorities via the NOI to be covered by the permit or by any other means (e.g., in the SWPPP or during an inspection). 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 either be eliminated or covered under another NPDES permit.

Depending on your industrial activities, your facility may be subject to federal effluent limitation guidelines which include additional effluent limits and monitoring requirements for your facility. Please review these requirements, described in Part 2.1.3 of the MSGP, and check any appropriate boxes on the NOI form.

You must identify all the outfalls from your facility that discharge stormwater. Each outfall must be assigned a unique 3-digit ID (e.g., 001, 002, 003). You must also provide the latitude and longitude for each outfall from your facility. Indicate whether any outfalls are substantially identical to an outfall already listed, and identify the outfall it is identical to. For each unique outfall you list, you must specify 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. You must specify whether any receiving waters that you discharge to are listed as "impaired" as defined in Appendix A, and the pollutants for which the water is impaired. You must also check identify any Total Maximum Daily Loads (TMDL) that have been completed for any of the waters of the U.S. that you discharge to. You must also provide information about the outfall latitude/longitude, including data source, the scale (if applicable), and the horizontal reference datum. See the instructions in Section D for more information about determining the latitude and longitude.

Identify whether your facility discharges into a Municipal Separate Storm Sewer System (MS4). If yes, provide the name of the MS4 operator. If you are uncertain of the MS4 operator, contact your local government for that information.

Indicate whether discharges from the facility will enter into a water of the U.S that is designated as a Tier 2, Tier 2.5, or Tier 3 water. A list of Tier 2, 2.5, and 3 waters is provided as Appendix L. If the answer is "yes", name all waters designated as Tier 2, Tier 2.5, or Tier 3 to which the facility will discharge. Note that you are ineligible for coverage if you are a new discharger or a new source to waters designated as Tier 3 (outstanding national resource waters) for antidegradation purposes under 40 CFR 131.13(a)(3).

If you are subject to any benchmark monitoring requirements for metals (see the requirements applicable to your Sector(s) in Part 8 of the permit), indicate the hardness for your receiving water(s). See Appendix J of the permit for information about determining waterbody hardness.

If you are subject to benchmark monitoring requirements for hardness-dependent metals you must also answer whether your facility discharges into any saltwater receiving waters.

Indicate whether your facility will discharge to a federal CERCLA site listed in Appendix P. Note that if your facility will discharge into a federal CERCLA site listed in Appendix P, you are not eligible for coverage under this permit unless you notify the EPA Regional Office in advance and the EPA Regional Office authorizes overage under this permit after you have included adequate controls and/or procedures designed to ensure that discharges will not lead to recontamination of aquatic media at the CERCLA site such that your discharge will cause or contribute to an exceedance of a water quality standard.

Section F. Stormwater Pollution Prevention Plan (SWPPP) Information

All facilities eligible for coverage under this permit are required to prepare a SWPPP in advance of filing the NOI, in accordance with Part 5. Indicate whether the SWPPP has been prepared in advance of filing the NOI.

Indicate the contact information (name, phone, and email) for the person who developed the SWPPP for this facility.

You identify how your SWPPP information will be made available, consistent with Part 5.4 and 7.3 of the permit. If you are making your SWPPP publicly available on a web site, check Option 1 and provide the appropriate Internet URL address. If you are not providing a URL, check Option 2 and provide the selected SWPPP information on this NOI form. You may copy and paste this information directly from your SWPPP.

Section G. Endangered Species Protection

Using the instructions in Appendix E, indicate the Part 1.1.4.5 criterion (i.e., A, B, C, D, or E) you are eligible under with regard to the protection of federally listed endangered and threatened species and designated critical habitat. A description of the basis for the criterion selected must also be provided.

If criterion B is selected, provide the NPDES ID (i.e., permit tracking number) for the other operator who has certified their eligibility under this permit. The NPDES ID was assigned when the operator received coverage under this permit.

If criterion C is selected, you must specify the federally-listed species or designated critical habitat that are located in the "action area" of the facility. You must also indicate under which scenario you determined you were eligible to submit your NOI under criterion C using Appendix E, and answer any corresponding questions.

If criterion D or E is selected, attach copies of any communications between you and the U.S. Fish and Wildlife Service and National Marine Fisheries Service to this NOI.

Section H. Historic Preservation

If the project is not located in Indian country lands, indicate whether the project is located on a property of religious or cultural significance to an Indian tribe, and if so, provide the name of the Indian tribe associated with the property. Use the instructions in Appendix F to complete the questions on the NOI form regarding historic preservation.

Instructions for Completing EPA Form 3510-6

Notice of Intent (NOI) for Stormwater Discharges
Associated with Industrial Activity Under the NPDES Multi-Sector General Permit

NPDES Form Date (06/15) This Form Replaces From 3510-6 (09/08) Form Approved OMB No. 2040-0004

Section I. Certification

Certification statement and signature (see Section B.11 of Appendix B of the MSGP for more information). Enter certifier's printed name, title and email address. Sign and date the form. (CAUTION: An unsigned or undated NOI form will prevent the granting of permit coverage.) Federal statutes provide for severe penalties for submitting false information on this application form. Federal regulations require this application to be signed as follows:

For a corporation: by a responsible corporate officer, which means: (i) a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy- or decision-making functions for the corporation, or (ii) the manager of one or more manufacturing, production, or operating facilities, provided, the manager is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long-term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.

For a partnership or sole proprietorship: By a general partner or the proprietor, respectively; or

For a municipality, state, federal, or other public agency: By either a principal executive officer or ranking elected official. For purposes of this Part, a principal executive officer of a federal agency includes (i) the chief executive officer of the agency, or (ii) a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., Regional Administrator of EPA). Include the name and title of the person signing the form and the date of signing.

An unsigned or undated NOI form will not be considered eligible for permit coverage.

Modifying Your NOI

If you have been granted a waiver from your Regional Office from electronic reporting, and if after submitting your NOI you need to correct or update any fields on this NOI form, you may do so by indicating changes on this same form.

Paperwork Reduction Act Notice

Public reporting burden for this NOI is estimated to average 3.7 hours, plus an additional 2 hours for certain respondents required to gather hardness data. This estimate includes time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number. Send comments regarding the burden estimate, any other aspect of the collection of information, or suggestions for improving this form, including any suggestions which may increase or reduce this burden to: Director, Collection Strategies Division, U.S. Environmental Protection Agency (2822T), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Include the OMB control number on any correspondence. Do not send the completed form to this address.

Submitting Your Form

If you have been granted a waiver from your Regional Office to submit a paper NOI form, you must send your NOI by mail to one of the following addresses:

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

For Overnight/Express Mail Delivery:
Stormwater Notice Processing Center
William Jefferson Clinton East Building - Room 7420
ATTN: 2015 MSGP Reports
U.S. EPA
1201 Constitution Avenue, NW
Washington, DC 20004

Visit this website for instructions on how to submit electronically:
http://water.epa.gov/polwaste/npdes/stormwater/Stormwater-eNOI-System-for-EPAs-MultiSector-General-Permit.cfm

Suggested Format for Submitting a Change Notice of Intent (NOI)

Instructions:

✓ **Step 1:** Provide your NPDES ID Number and Operator Name from your original NOI.

NPDES ID Number: N M R 0 5 3 1 2 2

Operator Name: S A N D I A N A T I O N A L L A B O R A T O R I E S

✓ **Step 2:** Use the NOI form on the subsequent pages to indicate the items for which you are submitting this modification. Only enter information you wish to change. You may only use this form to modify an NOI that you submitted to EPA for coverage under the 2015 MSGP.

✓ **Step 3:** If necessary, use the box below to provide additional information about the change you are reporting if you are unable to annotate the change directly in the form. For example: *"Per Part 7.4 our facility has met all of our benchmark monitoring requirements for Outfalls 001 and 002, and the average over the last four quarters is below each respective benchmark criteria, as such we are submitting this Change NOI to request that our benchmark monitoring be discontinued for the remainder of the permit term".*

Additional Information on Change NOI:

Approval to use this paper Change NOI form has been granted by EPA in order to maintain New Mexico state-specific standards on the MSGP NetDMR. Refer to Section A below.
A newly identified eligible site under Sector N2 (Scrap and Waste Materials, Source-separated Recycling) of the 2015 MSGP, has been added: Outfall ID 057, "STENT 11 (MSP2)", Refer to Section E below and the SWPPP, Appendix E2 for details.
Additional changes: Per Part 7.4 our facility has met all of our benchmark monitoring requirements for Outfalls 017, 040, 048, 049, 051 and 052 (refer to SWPPP, Appendix E3).
Outfalls 022, 032, 043, and 045 have been approved as complete under the facility hazardous waste permit and no longer meet criteria for eligibility under the 2015 MSGP (refer to SWPPP, Appendix E2).
Outfalls 041 and 042 are covered under Sector N2 which does not require benchmark monitoring (refer to SWPPP, Appendix E2)
See also changes for points of contact in Sections C and F below.

✓ **Step 4:** A certifying official must complete the certification information section and sign in wet ink. This form must have an original signature in ink - do not sent a photocopy!

✓ **Step 5:** Mail your Change NOI form to one of the following addresses:

For Regular U.S. Mail Delivery:
Stormwater Notice Processing Center
Mail Code 4203M, ATTN: 2015 MSGP
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
U.S. EPA
1201 Constitution Avenue, NW
Washington, DC 20004

NPDES FORM 3510-6	EPA	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.

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 approval:

Waiver granted: ☐ 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 approval obtained: 06/05/2019

* **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, you must file this form electronically using the NPDES eReporting Tool (NeT) at http://water.epa.gov/polwaste/npdes/stormwater/Stormwater-eNOI-System-for-EPAs-MultiSector-General-Permit.cfm**

B. Permit Information

NPDES ID (EPA Use Only):

1. Master Permit Number: (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? ☐ YES ☐ 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?

☐ YES ☐ NO

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:

C. Facility Operator Information

1. Operator Information:

Operator Name: SANDIA NATIONAL LABORATORIES

Mailing Address:

Street: PO BOX 5800 MS-0729

City: Albuquerque State: NM ZIP Code: 87185-0729

County or Similar Government Subdivision: Bernalillo

Phone: 505-284-9986 Ext.

E-mail: cdaniel@sandia.gov

2. Operator Point of Contact Information:

First Name, Middle Initial, Last Name: Carolyn L Daniel

Title: MSGP Permit Lead

3. NOI Preparer Information (Complete if NOI was prepared by someone other than the certifier):

First Name, Middle Initial, Last Name: Carolyn L Daniel

Organization: Sandia National Laboratories

Phone: 505-284-9986 Ext.

E-mail: cdaniel@sandia.gov

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 ☐ WGS 84

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

☐ Corporation ☐ State Government ☐ Tribal Government ☐ School District

☐ District ☐ Mixed Ownership (e.g. Public/Private) ☐ Municipal or Water District

7. Estimated area of industrial activity at your facility exposed to stormwater: ______________ (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:** | | | |

Identify the applicable sector(s) and subsector(s) of any co-located industrial activity for which you are requesting permit coverage:

Sector: | | | **Subsector:** | | | | **Sector:** | | | **Subsector:** | | | | **Sector:** | | | **Subsector:** | | | |

Sector: | | | **Subsector:** | | | | **Sector:** | | | **Subsector:** | | | | **Sector:** | | | **Subsector:** | | | |

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? ☐ YES ☐ NO

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 ☐ Aluminum 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

If yes, which effluent limitation guidelines apply to your stormwater discharges?

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)	C	4/8/1974	☐
Part 423	Coal pile runoff at steam electric generating facilities	O	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	☐

[1]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)

List all of the stormwater outfalls from your facility. Each outfall 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.		**For each outfall, provide the following receiving water information:**		
		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	057 (Sector N2)	**Tijeras Arroyo** (AU NM-9000.A_70) **via SNL MS4**		**TMDL Name and ID:**
Latitude	35.04087			**Pollutant(s) for which there is a TMDL:**
Longitude	-106.54338			
Outfall ID				**TMDL Name and ID:**
Latitude				**Pollutant(s) for which there is a TMDL:**
Longitude				

If substantially identical to other outfall, list identical outfall ID: ______________

Outfall ID				**TMDL Name and ID:** **Pollutant(s) for which there is a TMDL:**
Latitude				
Longitude				
If substantially identical to other outfall, list identical outfall ID: ______________				
Outfall ID				**TMDL Name and ID:** **Pollutant(s) for which there is a TMDL:**
Latitude				
Longitude				
If substantially identical to other outfall, list identical outfall ID: ______________				
Outfall ID				**TMDL Name and ID:** **Pollutant(s) for which there is a TMDL:**
Latitude				
Longitude				
If substantially identical to other outfall, list identical outfall ID: ______________				
Outfall ID				**TMDL Name and ID:** **Pollutant(s) for which there is a TMDL:**
Latitude				
Longitude				
If substantially identical to other outfall, 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: U.S. Department of Energy and National Technology & Engineering Solutions of Sandia

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)? 125 (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 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: John T Kay

Professional Title: SNL Stormwater Program Lead

Phone: 505-844-9485. Ext.

E-mail: jtkay@sandia.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: http://digitalrepository.unm.edu/snl_msgp/

☐ **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 stormwater 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, and any other measures taken to comply with the requirements in Part 2.2 Water Quality-Based Effluent Limitations (see 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):

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)?*

☐ 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 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-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 Eligibilty 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.

Date your *Criterion C Eligibility Form* was sent to EPA: |_|_| / |_|_| / |_|_|_|_|

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 Service.

H. Historic Preservation

1. If your facility is not located on Indian country lands, is your facility located on a property of religious or cultural significance to an Indian tribe?

☐ YES ☐ NO

If yes, provide the name of the Indian tribe associated with the property: ______

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)?

☐ A ☐ B ☐ C ☐ D

I. Certification Information

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

First Name, Middle Initial, Last Name: Jaime L Moya

Title: Director Environment Saftey & H

Signature: [signature]

Date: 06/19/2019

E-mail: jlmoya@sandia.gov

Notice of Intent (NOI) for Stormwater Discharges Associated with Industrial Activity Under the NPDES Multi-Sector General Permit

NPDES Form Date (06/15) This Form Replaces From 3510-6 (09/08) Form Approved OMB No. 2040-0004

Who Must File an NOI Form

Under section 402(p) of the Clean Water Act (CWA) and regulations at 40 CFR Part 122, stormwater discharges associated with industrial activity are prohibited to waters of the United States unless authorized under a National Pollutant Discharge Elimination System (NPDES) permit. You can obtain coverage under the MSGP by submitting a completed Notice of Intent (NOI) if you are an operator a facility:

- that is located in a jurisdiction where EPA is the permitting authority, listed in Appendix C of the MSGP,
- that discharges stormwater associated with industrial activities, identified in Appendix D of the MSGP,
- that meets the eligibility requirements in Part 1.1 of the permit,
- that has developed a stormwater pollution prevention plan (SWPPP) in accordance with Part 5 of the MSGP; and
- that installs and implements control measures in accordance with Part 2 and Part 8 to meet numeric and non-numeric effluent limits.

Completing the Form

Obtain and read a copy of the 2015 MSGP, viewable at http://water.epa.gov/polwaste/npdes/stormwater/EPA-Multi-Sector-General-Permit-MSGP.cfm. To complete this form, type or print, using uppercase letters, in the appropriate areas only. Please place each character between the marks. Abbreviate if necessary to stay within the number of characters allowed for each item. Use only one space for breaks between words, but not for punctuation marks unless they are needed to clarify your response. **Please submit original document with signature in ink - do not send a photocopied signature.**

Section A. Approval to Use Paper NOI Form

You must indicate whether you have been granted a waiver from electronic reporting from the EPA Regional Office. Note that you are not authorized to use this paper NOI form unless the EPA Regional Office has approved its use. Where you have obtained approval to use this form, indicate the waiver that you have been granted, the name of the EPA staff person who granted the waiver, and the date that approval was provided.

See http://water.epa.gov/polwaste/npdes/stormwater/Stormwater-Contacts.cfm for a list of EPA Regional Office contacts.

Section B. Permit Information

Provide the master permit number of the permit under which you are applying for coverage (see Appendix C of the general permit for the list of eligible master permit numbers).

You must indicate whether you are a new discharger or a new source (see Appendix A for the definitions). If you are not a new discharger or a new source, you must indicate whether stormwater discharges from your facility have been previously covered under another NPDES permit. If yes, you must provide the unique NPDES ID (i.e., permit tracking number) for the previous permit your facility was covered under.

Section C. Facility Operator Information

Provide the legal name of the person, firm, public organization, or any other entity that operates the facility described in this NOI. An operator of a facility is the legal entity that controls the operation of the facility. Refer to Appendix A of the permit for the definition of "operator". Provide the operator's mailing address, phone number, and e-mail. Correspondence for the NOI will be sent to this address. Also provide the name and title for the operator point of contact (note that the point of contact name may be the same as the operator name).

If the NOI was prepared by someone other than the certifier (for example, if the NOI was prepared by the facility SWPPP contact or a consultant for the certifier's signature), include the full name, organization, phone number, and email address of the NOI preparer.

Section D. Facility Information

Enter the official or legal name and complete address, including city, state, ZIP code, and county or similar government subdivision of the facility. If the facility lacks a street address, indicate the general location of the facility (e.g., Intersection of State Highways 61 and 34). Complete facility information must be provided for permit coverage to be granted.

Provide the latitude and longitude of your facility in decimal degrees format. The latitude and longitude of your facility can be determined in several different ways, including through the use of global positioning system (GPS) receivers, U.S. Geological Survey (U.S.G.S.) topographic or quadrangle maps. Refer to http://transition.fcc.gov/mb/audio/bickel/DDDMMSS-decimal.html/ for assistance in providing the proper latitude/longitude format. For consistency, EPA requests that measurements be taken from the approximate center of the facility. Specify which method you used to determine latitude and longitude. If a U.S.G.S. topographic map is used, specify the scale of the map used. Enter the horizontal reference datum for your latitude and longitude. The horizontal reference datum used on USGS topographic maps is shown on the bottom left corner of USGS topographic maps; it is also available for GPS receivers.

Indicate whether the facility is on Indian country lands, and if so, provide the name of the Indian tribe associated with the area of Indian country (including name of Indian reservation, if applicable).

Indicate whether you are seeking coverage under this permit as a "federal operator" as defined in Appendix A. Also check the ownership type for the facility (e.g., Federal Facility, Privately Owned Facility, Municipality, County Government, Corporation, State Government, Tribal Government, School District, District, Mixed Ownership [e.g., public/private], Municipal or Water District).

Enter the estimated area of industrial activity at your facility exposed to stormwaterto the nearest quarter acre.

List the four-digit Standard Industrial Classification (SIC) code or two character activity code that best describes the primary industrial activities performed by your facility under which you are required to obtain permit coverage. Your primary industrial activity includes any activities performed on-site which are (1) identified by the facility's primary SIC code and included in the descriptions of 40 CFR 122.26(b)(14)(ii), (iii), (vi), or (viii); or (2) included in the narrative descriptions of 40 CFR 122.26(b)(14)(i), (iv), (v), (vii), or (ix). See Appendix D of the MSGP for a complete list of SIC codes and activities codes covered under the MSGP. Also provide the applicable sector and subsector associated with the SIC code or activity code for your primary industrial activities. For a complete list of sector and subsector codes, see Appendix D of the MSGP.

If your facility has co-located industrial activities that are not identified as your primary industrial activity, identify the sector and subsector codes that describe these other industrial activities.

For Sector S facilities (Air Transportation), indicate whether you anticipate that the entire airport facility will use 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 so, additional effluent limits and monitoring conditions apply to your discharge (see Part 8.S of the permit).

For Sector G facilities (Metal Mining), check the type of ore(s) mined at the facility.

Indicate whether your facility is currently inactive and unstaffed. Note that if your facility becomes inactive and unstaffed during the permit term, you must submit an NOI modification to reflect the change.

Section E. Discharge Information

You must confirm that you understand that the MSGP only authorizes the allowable stormwater discharges listed in Part 1.1.2 and the allowable non-stormwater discharges listed in Part 1.1.3. Any discharges not expressly authorized under the MSGP are not covered by the MSGP or the permit shield provision of the CWA Section 402(k) and they cannot become authorized or shielded by disclosure to EPA, state, or local authorities via the NOI to be covered by the permit or by any other means (e.g., in the SWPPP or during an inspection). 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 either be eliminated or covered under another NPDES permit.

Depending on your industrial activities, your facility may be subject to federal effluent limitation guidelines which include additional effluent limits and monitoring requirements for your facility. Please review these requirements, described in Part 2.1.3 of the MSGP, and check any appropriate boxes on the NOI form.

You must identify all the outfalls from your facility that discharge stormwater. Each outfall must be assigned a unique 3-digit ID (e.g., 001, 002, 003). You must also provide the latitude and longitude for each outfall from your facility. Indicate whether any outfalls are substantially identical to an outfall already listed, and identify the outfall it is identical to. For each unique outfall you list, you must specify 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. You must specify whether any receiving waters that you discharge to are listed as "impaired" as defined in Appendix A, and the pollutants for which the water is impaired. You must also check identify any Total Maximum Daily Loads (TMDL) that have been completed for any of the waters of the U.S. that you discharge to. You must also provide information about the outfall latitude/longitude, including data source, the scale (if applicable), and the horizontal reference datum. See the instructions in Section D for more information about determining the latitude and longitude.

Identify whether your facility discharges into a Municipal Separate Storm Sewer System (MS4). If yes, provide the name of the MS4 operator. If you are uncertain of the MS4 operator, contact your local government for that information.

Indicate whether discharges from the facility will enter into a water of the U.S that is designated as a Tier 2, Tier 2.5, or Tier 3 water. A list of Tier 2, 2.5, and 3 waters is provided as Appendix L. If the answer is "yes", name all waters designated as Tier 2, Tier 2.5, or Tier 3 to which the facility will discharge. Note that you are ineligible for coverage if you are a new discharger or a new source to waters designated as Tier 3 (outstanding national resource waters) for antidegradation purposes under 40 CFR 131.13(a)(3).

If you are subject to any benchmark monitoring requirements for metals (see the requirements applicable to your Sector(s) in Part 8 of the permit), indicate the hardness for your receiving water(s). See Appendix J of the permit for information about determining waterbody hardness.

If you are subject to benchmark monitoring requirements for hardness-dependent metals you must also answer whether your facility discharges into any saltwater receiving waters.

Indicate whether your facility will discharge to a federal CERCLA site listed in Appendix P. Note that if your facility will discharge into a federal CERCLA site listed in Appendix P, you are not eligible for coverage under this permit unless you notify the EPA Regional Office in advance and the EPA Regional Office authorizes overage under this permit after you have included adequate controls and/or procedures designed to ensure that discharges will not lead to recontamination of aquatic media at the CERCLA site such that your discharge will cause or contribute to an exceedance of a water quality standard.

Section F. Stormwater Pollution Prevention Plan (SWPPP) Information

All facilities eligible for coverage under this permit are required to prepare a SWPPP in advance of filing the NOI, in accordance with Part 5. Indicate whether the SWPPP has been prepared in advance of filing the NOI.

Indicate the contact information (name, phone, and email) for the person who developed the SWPPP for this facility.

You identify how your SWPPP information will be made available, consistent with Part 5.4 and 7.3 of the permit. If you are making your SWPPP publicly available on a web site, check Option 1 and provide the appropriate Internet URL address. If you are not providing a URL, check Option 2 and provide the selected SWPPP information on this NOI form. You may copy and paste this information directly from your SWPPP.

Section G. Endangered Species Protection

Using the instructions in Appendix E, indicate the Part 1.1.4.5 criterion (i.e., A, B, C, D, or E) you are eligible under with regard to the protection of federally listed endangered and threatened species and designated critical habitat. A description of the basis for the criterion selected must also be provided.

If criterion B is selected, provide the NPDES ID (i.e., permit tracking number) for the other operator who has certified their eligibility under this permit. The NPDES ID was assigned when the operator received coverage under this permit.

If criterion C is selected, you must specify the federally-listed species or designated critical habitat that are located in the "action area" of the facility. You must also indicate under which scenario you determined you were eligible to submit your NOI under criterion C using Appendix E, and answer any corresponding questions.

If criterion D or E is selected, attach copies of any communications between you and the U.S. Fish and Wildlife Service and National Marine Fisheries Service to this NOI.

Section H. Historic Preservation

If the project is not located in Indian country lands, indicate whether the project is located on a property of religious or cultural significance to an Indian tribe, and if so, provide the name of the Indian tribe associated with the property. Use the instructions in Appendix F to complete the questions on the NOI form regarding historic preservation.

Instructions for Completing EPA Form 3510-6

Notice of Intent (NOI) for Stormwater Discharges Associated with Industrial Activity Under the NPDES Multi-Sector General Permit

NPDES Form Date (06/15) This Form Replaces From 3510-6 (09/08) Form Approved OMB No. 2040-0004

Section I. Certification

Certification statement and signature (see Section B.11 of Appendix B of the MSGP for more information). Enter certifier's printed name, title and email address. Sign and date the form. (CAUTION: An unsigned or undated NOI form will prevent the granting of permit coverage.) Federal statutes provide for severe penalties for submitting false information on this application form. Federal regulations require this application to be signed as follows:

For a corporation: by a responsible corporate officer, which means: (i) a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy- or decision-making functions for the corporation, or (ii) the manager of one or more manufacturing, production, or operating facilities, provided, the manager is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long-term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.

For a partnership or sole proprietorship: By a general partner or the proprietor, respectively; or

For a municipality, state, federal, or other public agency: By either a principal executive officer or ranking elected official. For purposes of this Part, a principal executive officer of a federal agency includes (i) the chief executive officer of the agency, or (ii) a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., Regional Administrator of EPA). Include the name and title of the person signing the form and the date of signing.

An unsigned or undated NOI form will not be considered eligible for permit coverage.

Modifying Your NOI

If you have been granted a waiver from your Regional Office from electronic reporting, and if after submitting your NOI you need to correct or update any fields on this NOI form, you may do so by indicating changes on this same form.

Paperwork Reduction Act Notice

Public reporting burden for this NOI is estimated to average 3.7 hours, plus an additional 2 hours for certain respondents required to gather hardness data. This estimate includes time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number. Send comments regarding the burden estimate, any other aspect of the collection of information, or suggestions for improving this form, including any suggestions which may increase or reduce this burden to: Director, Collection Strategies Division, U.S. Environmental Protection Agency (2822T), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Include the OMB control number on any correspondence. Do not send the completed form to this address.

Submitting Your Form

If you have been granted a waiver from your Regional Office to submit a paper NOI form, you must send your NOI by mail to one of the following addresses:

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

For Overnight/Express Mail Delivery:
Stormwater Notice Processing Center
William Jefferson Clinton East Building - Room 7420
ATTN: 2015 MSGP Reports
U.S. EPA
1201 Constitution Avenue, NW
Washington, DC 20004

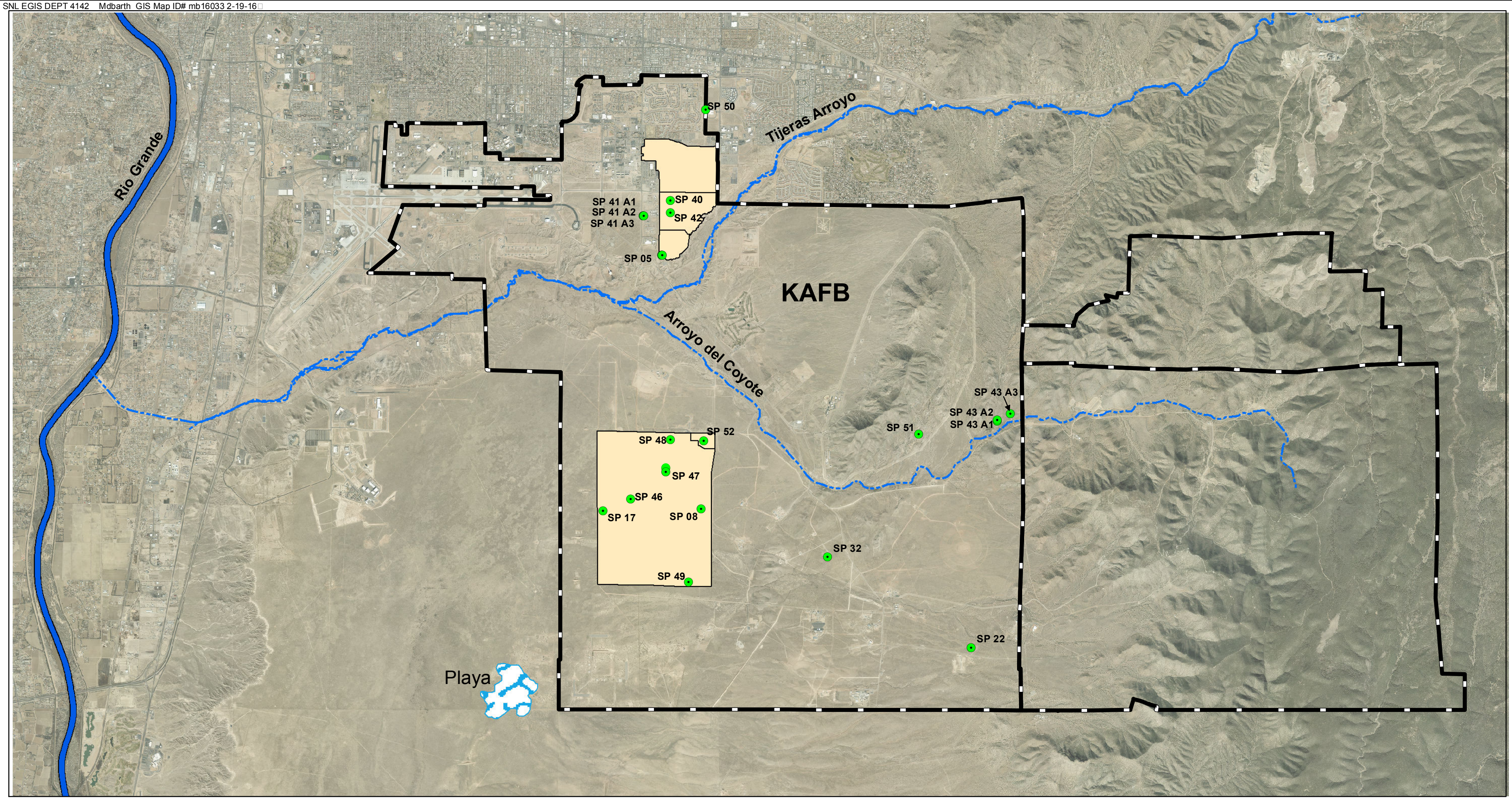
Visit this website for instructions on how to submit electronically:
http://water.epa.gov/polwaste/npdes/stormwater/Stormwater-eNOI-System-for-EPAs-MultiSector-General-Permit.cfm

Appendix C: SNL/NM Site Maps

No.	**Description**
C-1	SNL/NM Location Map and Monitoring Locations
C-2	SNL/NM Facilities Discharging to the SNL MS4
C-3	TA-III Borrow Site
C-4	Hazardous Waste Handling Unit (HWHU)
C-5	Manzano Storage Bunkers (MSB)
C-6	Radioactive and Mixed Waste Management Unit (RMWMU)
C-7	Thermal Treatment Unit (TTU)
C-8	Auxiliary Hot Cell Unit (AHCU) and TA V Sandlot
C-11	SWMU 83 (Long Sled Track)
C-12	SWMU 84 (Gun Facilities)
C-13	SWMU 240 (Short Sled Track)
C-15	Classified Waste Landfill (ClWL)
C-16	Reapplication Yard
C-17	Solid Waste Collection and Recycling Center (SWCRC)
C-18	Fleet Services
C-20	Advanced Manufacturing Processes Laboratory (AMPL)
C-22	Center for Integrated Nanotechnology (CINT)
C-23	Thunder Range/ Range 6 Emergency Detonation Site
C-24	STENT 11 (MSP2)

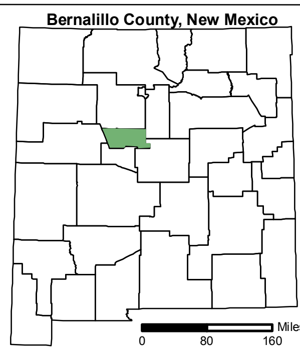
Appendix C-1

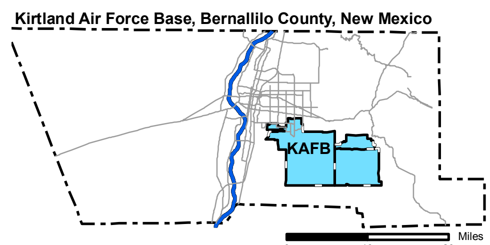
SNL EGIS DEPT 4142 Mdbarth GIS Map ID# mb16033 2-19-16



Legend

- Stormwater Sampling Point
- Playa Area
- Arroyo
- Rio Grande
- SNL Tech Area
- KAFB Boundary





Sandia National Laboratories Facility Location Map and MSGP Monitoring Locations

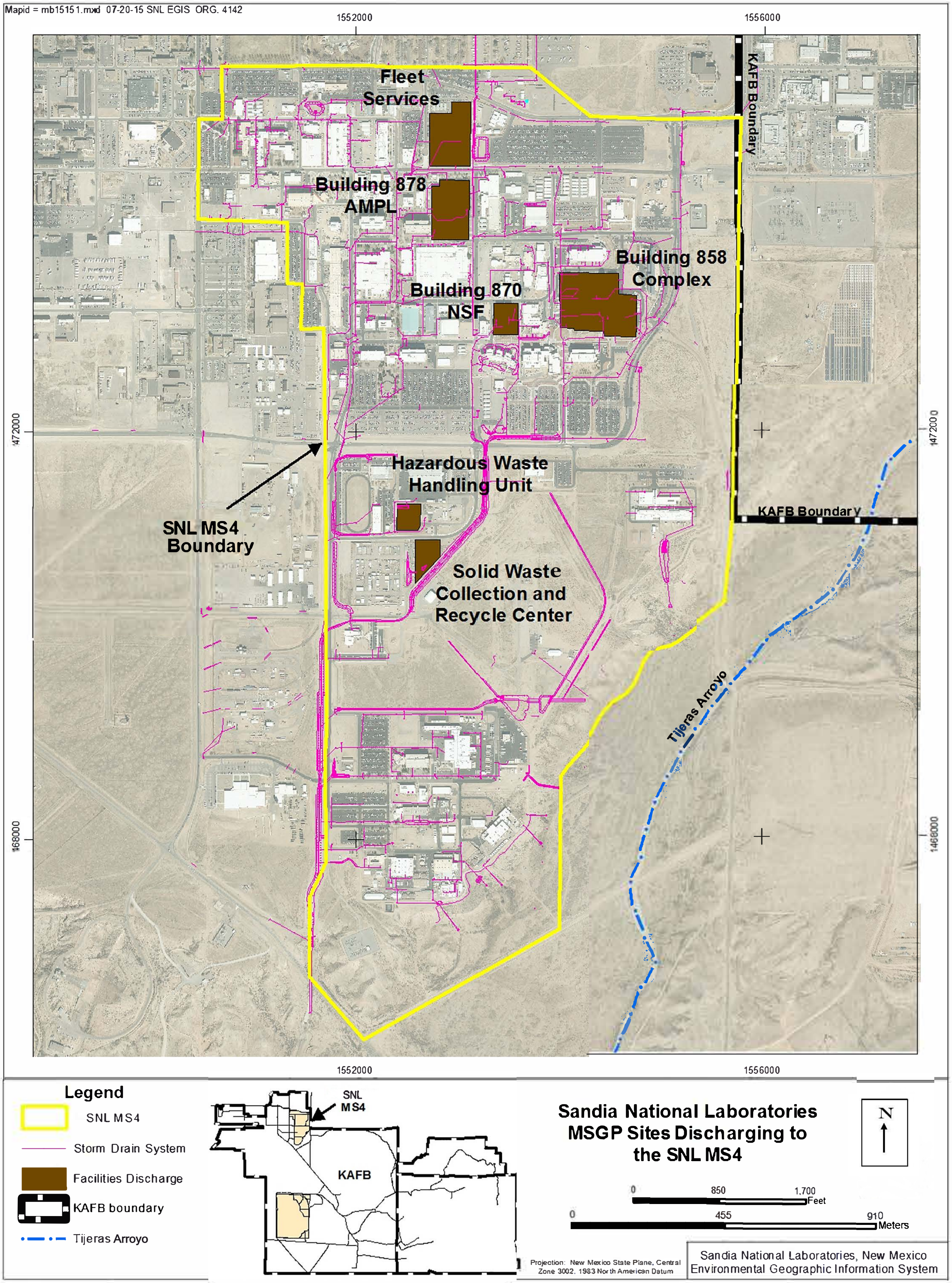
N

0 1 2 Miles

New Mexico State Plane Central Zone, 1983
1988 North American Vertical Datum

Sandia National Laboratories, New Mexico
Environmental Geographic Information System

Appendix C-2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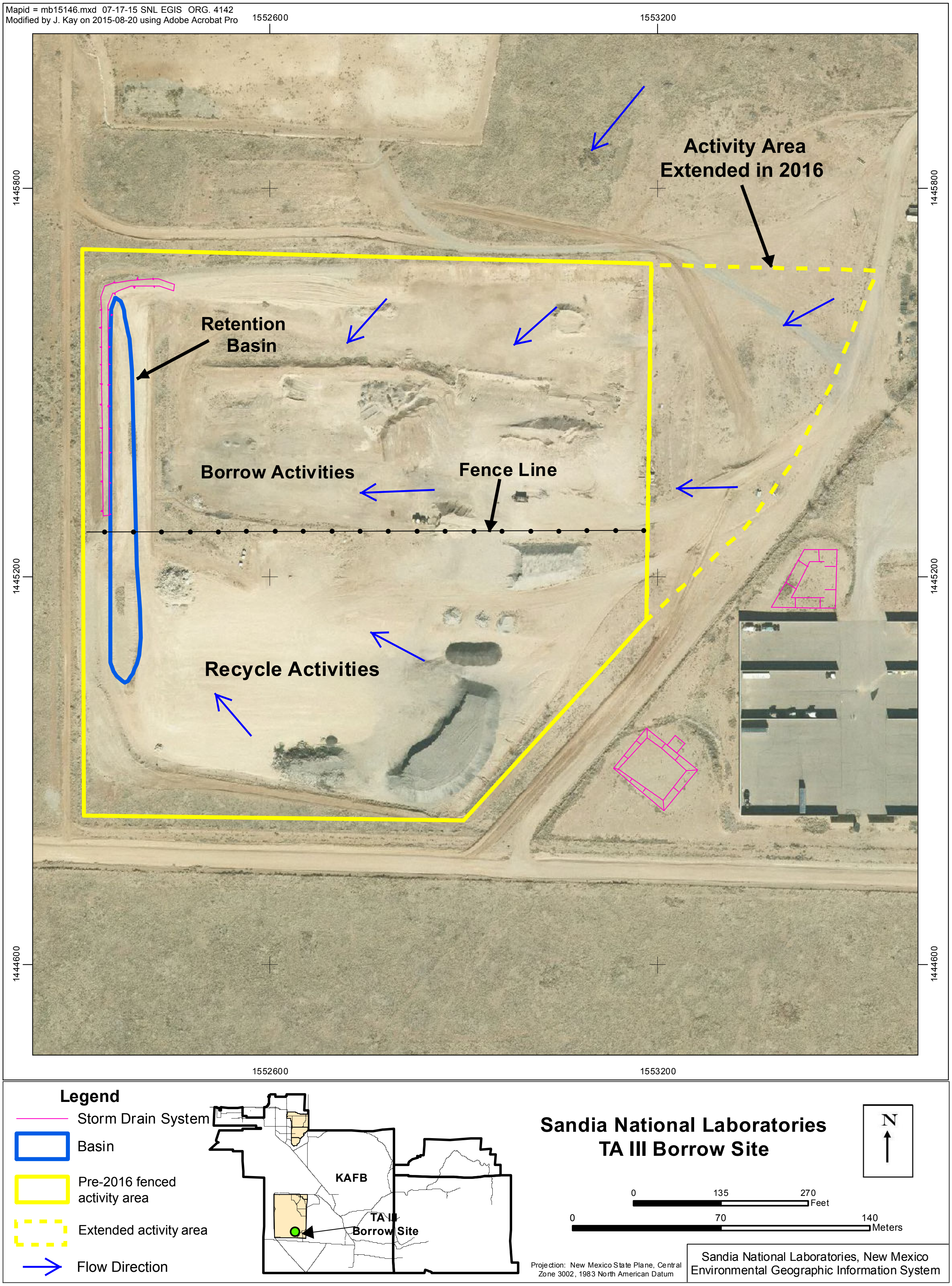
1552000
1556000
1472000
1468000
Fleet Services
Building 878 AMPL
Building 858 Complex
Building 870 NSF
TTU
KAFB Boundary
Hazardous Waste Handling Unit
SNL MS4 Boundary
Solid Waste Collection and Recycle Center
Tijeras Arroyo
Legend
SNL MS4
Storm Drain System
Facilities Discharge
KAFB boundary
Tijeras Arroyo
SNL MS4
KAFB
Sandia National Laboratories MSGP Sites Discharging to the SNL MS4
N
0
850
1,700
Feet
0
455
910
Meters
Projection: New Mexico State Plane, Central Zone 3002. 1983 North American Datum
Sandia National Laboratories, New Mexico Environmental Geographic Information System

Appendix C-3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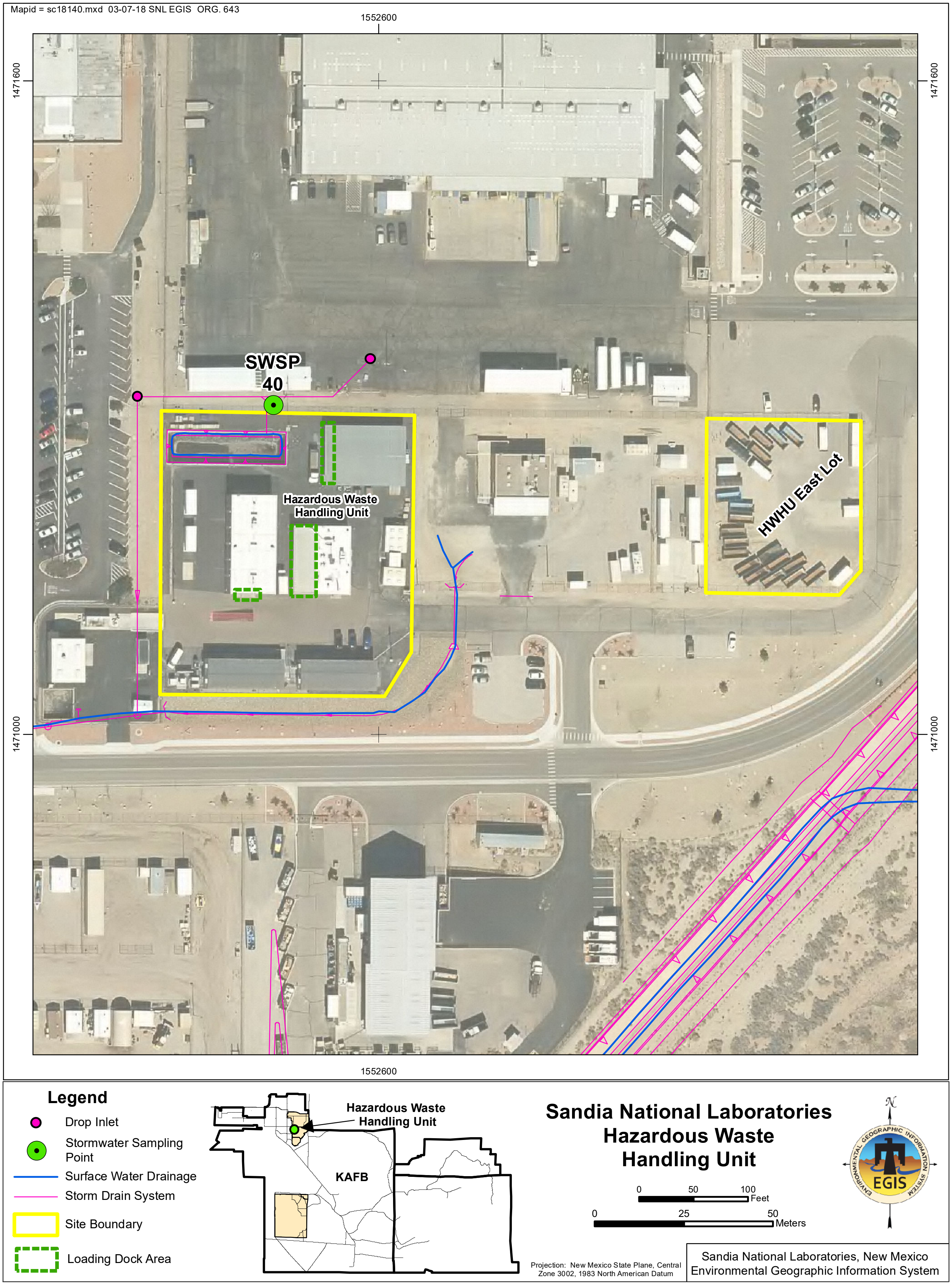
Modified by J. Kay on 2015-08-20 using Adobe Acrobat Pro
1552600
1553200
1445800
1445200
1444600
Activity Area
Extended in 2016
Retention
Basin
Borrow Activities
Fence Line
Recycle Activities
Legend
Storm Drain System
Basin
Pre-2016 fenced
activity area
Extended activity area
Flow Direction
KAFB
TA III
Borrow Site
Sandia National Laboratories
TA III Borrow Site
N
0
135
270
Feet
0
70
140
Meters
Projection: New Mexico State Plane, Central
Zone 3002, 1983 North American Datum
Sandia National Laboratories, New Mexico
Environmental Geographic Information System

Appendix C-4



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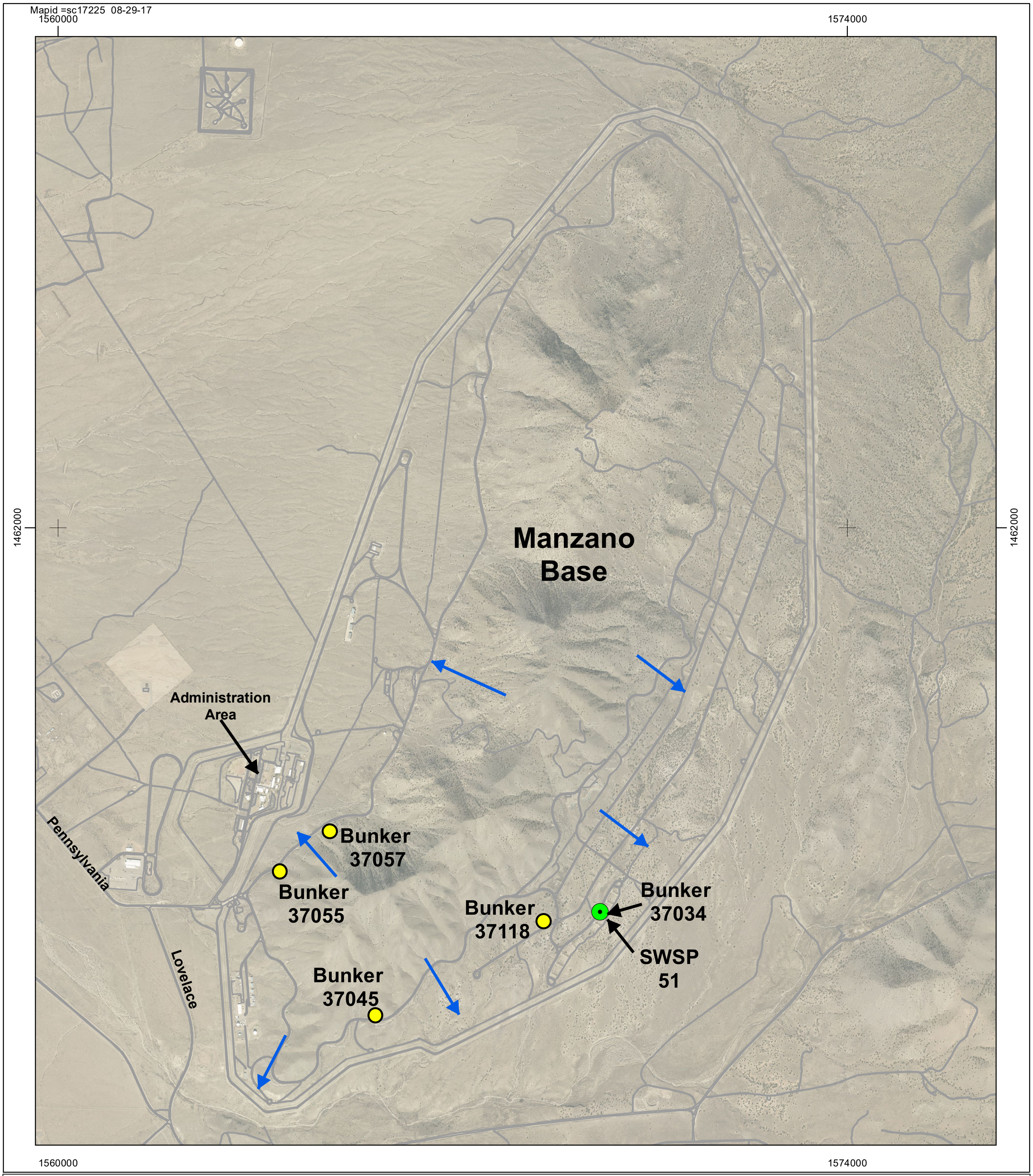
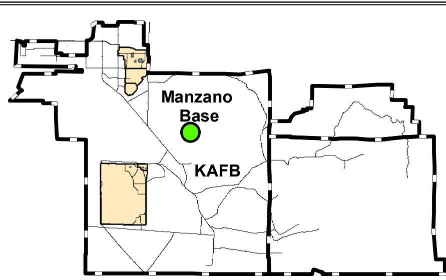
1552600
1471600
1471000
SWSP
40
Hazardous Waste
Handling Unit
HWHU East Lot
Legend
Drop Inlet
Stormwater Sampling Point
Surface Water Drainage
Storm Drain System
Site Boundary
Loading Dock Area
Hazardous Waste
Handling Unit
KAFB
Sandia National Laboratories
Hazardous Waste
Handling Unit
0 50 100 Feet
0 25 50 Meters
Projection: New Mexico State Plane, Central Zone 3002, 1983 North American Datum
Sandia National Laboratories, New Mexico
Environmental Geographic Information System
EGIS

Appendix C-5



Legend

- Stormwater Sampling Point
- Road
- Building
- Permitted Bunker
- Flow Direction



Projection: New Mexico State Plane, Central Zone 3002, 1983 North American Datum

Sandia National Laboratories Manzano Storage Bunkers

0 1,650 3,300 Feet

0 875 1,750 Meters

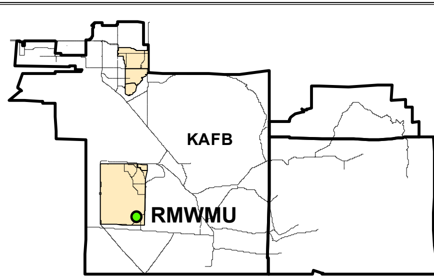
Sandia National Laboratories, New Mexico
Environmental Geographic Information System

Appendix C-6

Mapid = mb15144.mxd 07-17-15 SNL EGIS ORG. 4142
Modified by J. Kay on 2015/08/20 using Adobe Acrobat Pro

Legend

- Stormwater Sampling Point
- Fence
- Storm Drain System
- 8 - inch Curb
- Flow Direction
- Loading Dock Area



Sandia National Laboratories Radioactive and Mixed Waste Management Unit (RMWMU)

N

0 50 100 Feet

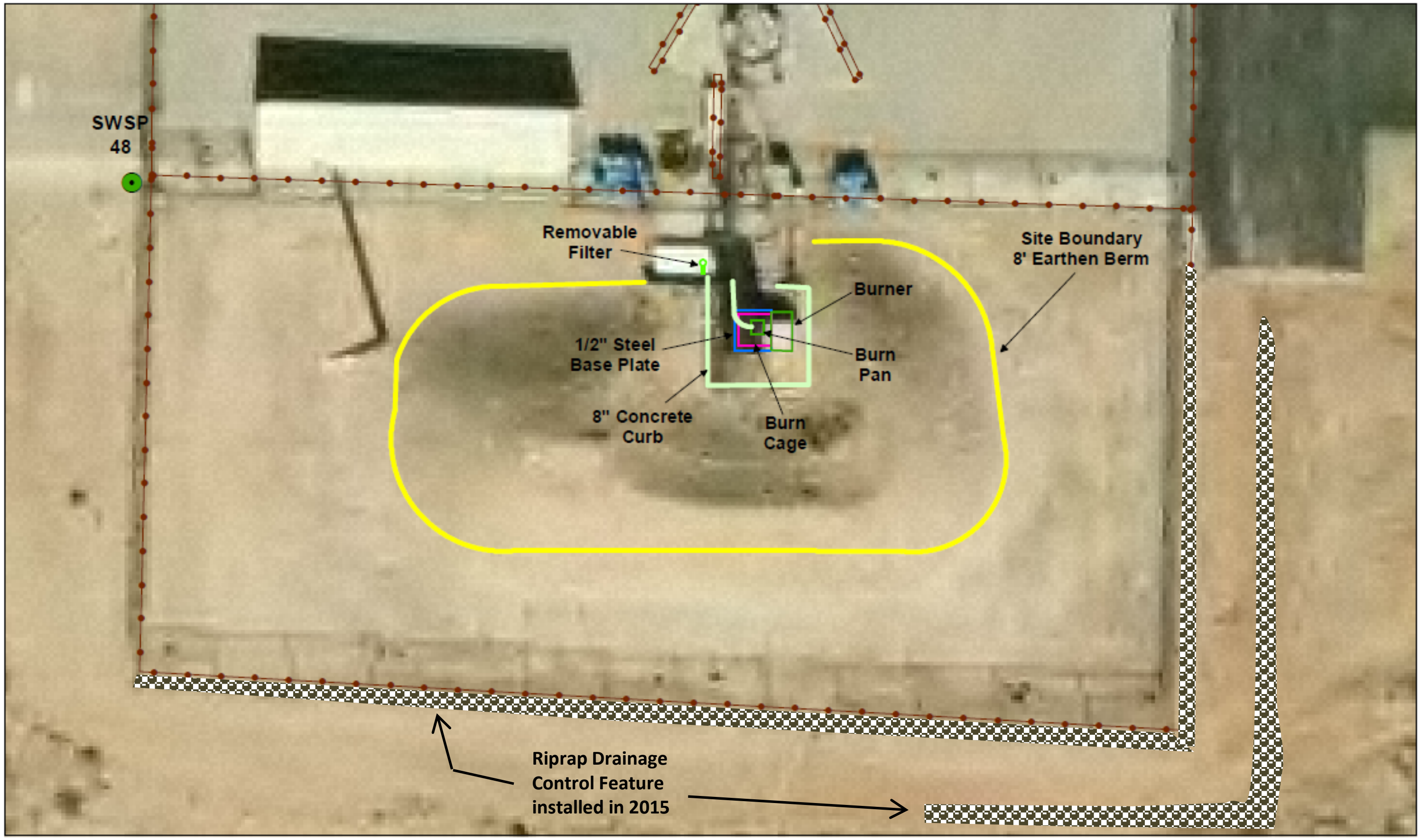
0 25 50 Meters

Projection: New Mexico State Plane, Central Zone 3002, 1983 North American Datum

Sandia National Laboratories, New Mexico Environmental Geographic Information System

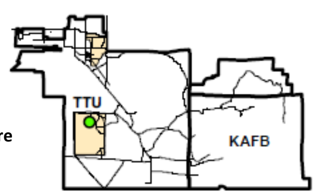
Appendix C-7

Mapid = mb15136L 07/23/15 SNL EGIS ORG. 4142 MBarthel



Legend

- Fence
- Stormwater Sampling Point
- **Riprap Drainage Control Feature**



Sandia National Laboratories
Thermal Treatment Unit

Sandia National Laboratories, New Mexico
Environmental Geographic Information System

0 0.00125 0.0025 0.005
Miles

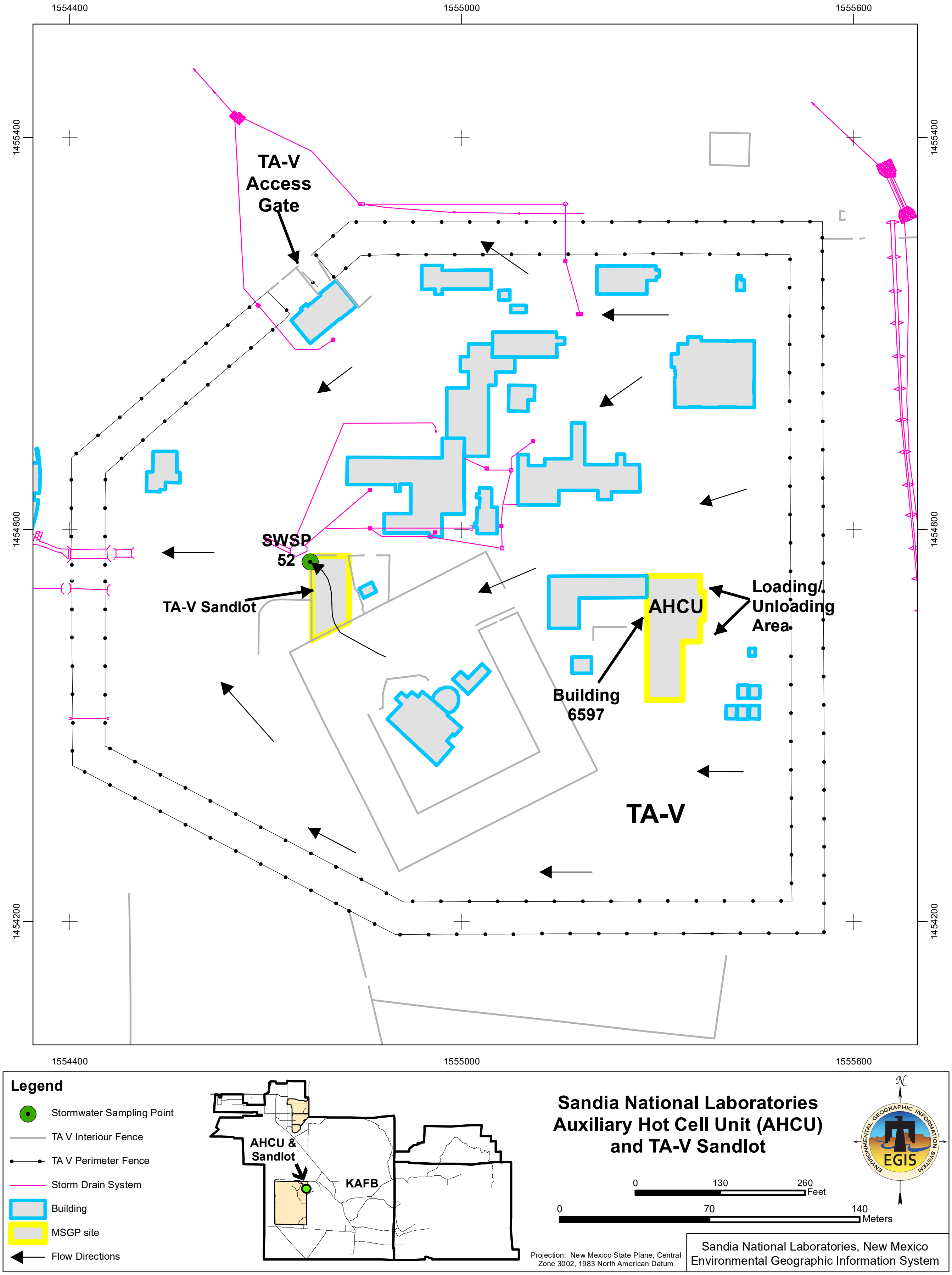
0 5 10 20
Feet

N

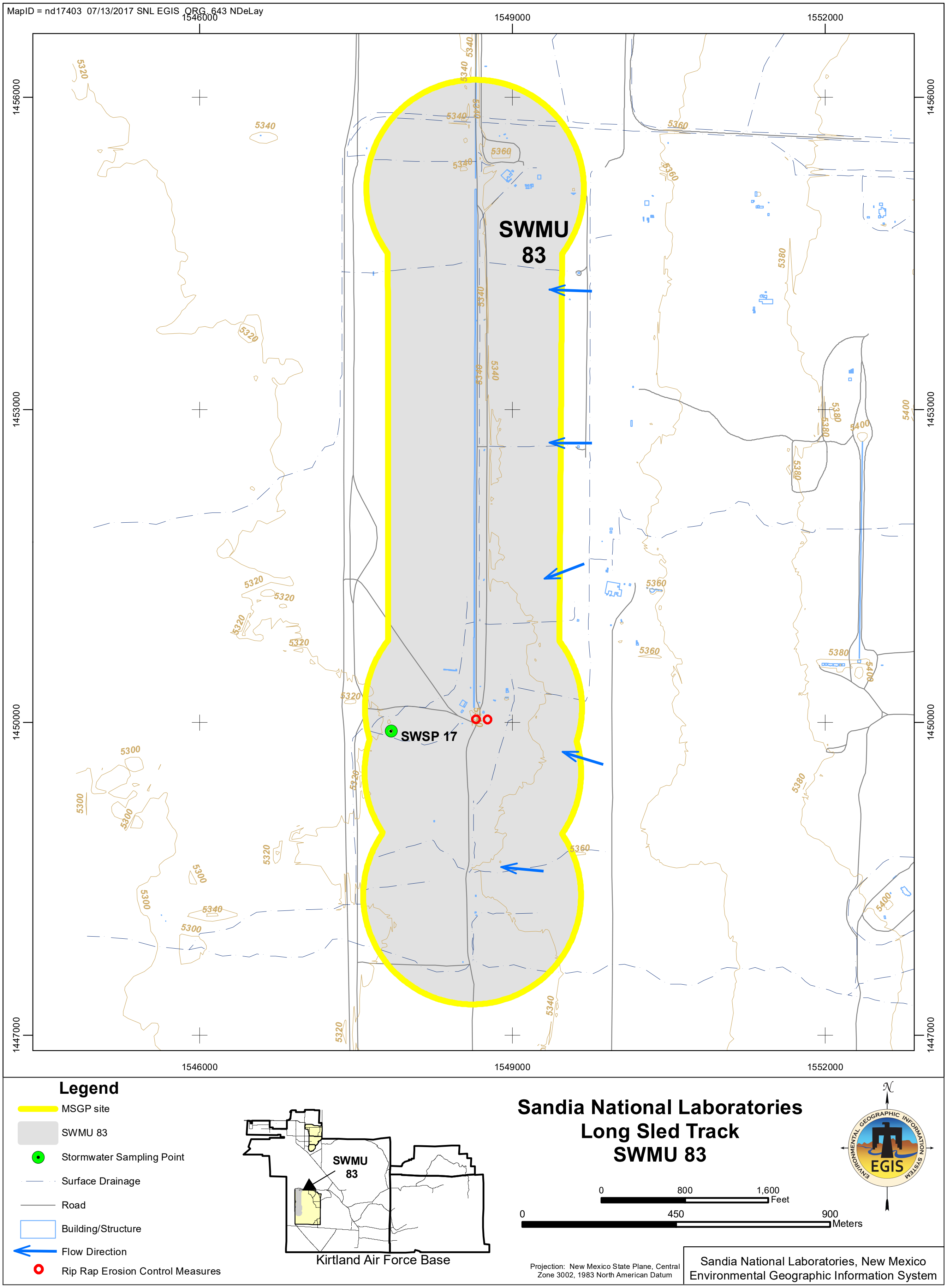
New Mexico State Plane Central Zone, 1
1988 North American Vertical Datum

Appendix C-8

MapID = nd17402 07/13/2017 SNL EGIS ORG. 643 NDeLay

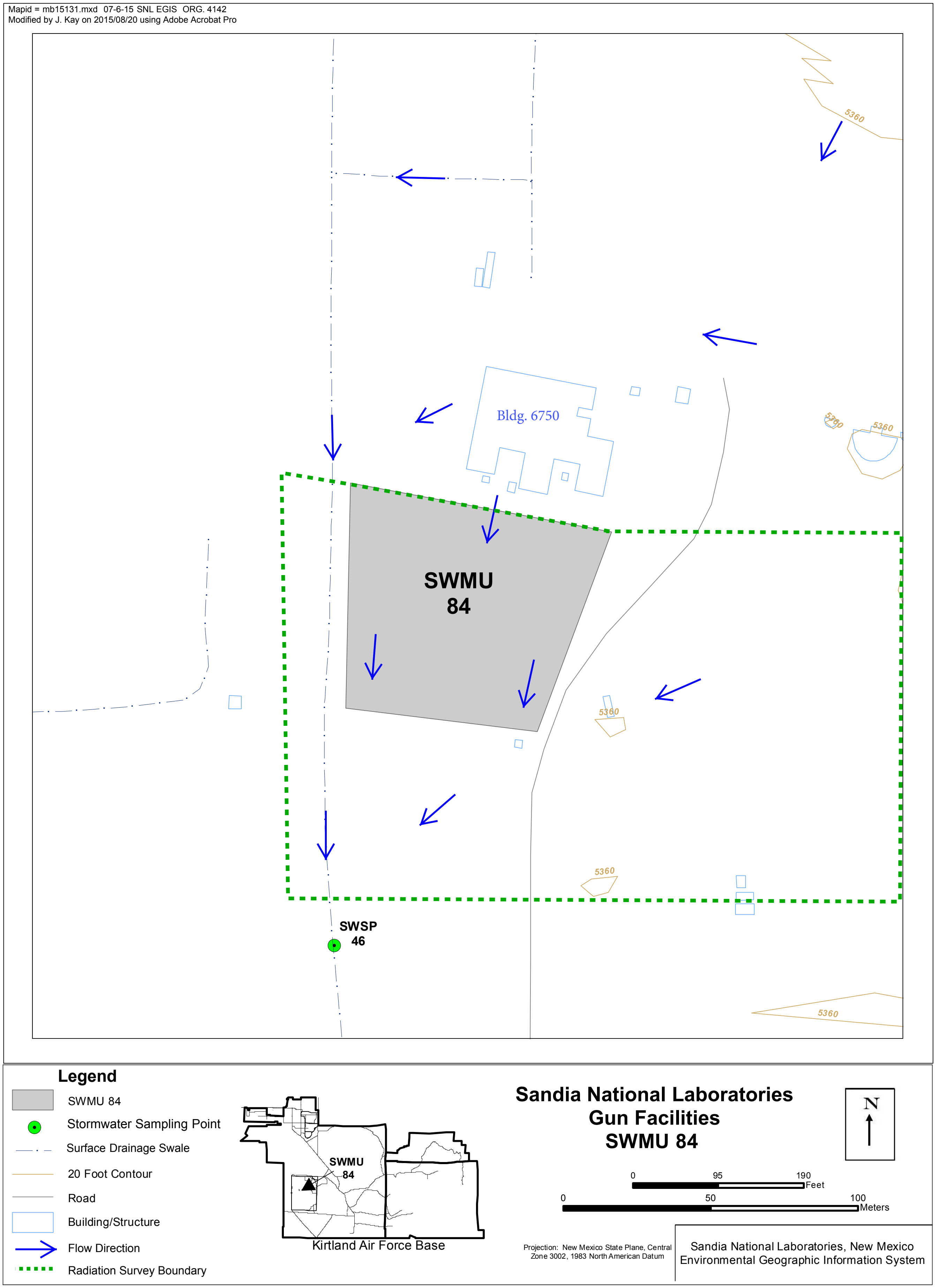


Appendix C-11

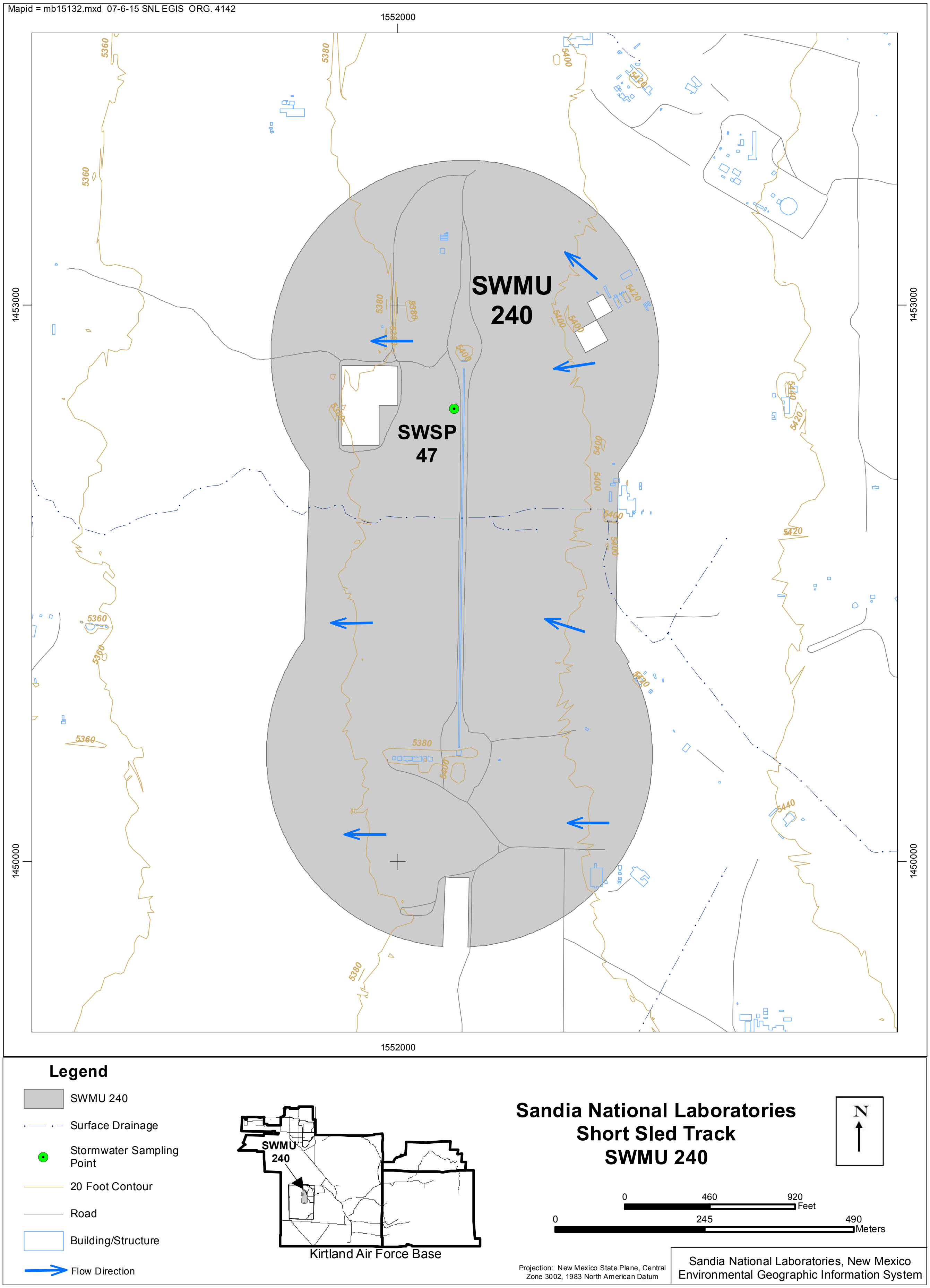


MapID = nd17403 07/13/2017 SNL EGIS ORG 643 NDeLay
1546000
1549000
1552000
1456000
1453000
1450000
1447000
SWMU 83
SWSP 17
5300
5320
5340
5360
5380
5400
Legend
MSGP site
SWMU 83
Stormwater Sampling Point
Surface Drainage
Road
Building/Structure
Flow Direction
Rip Rap Erosion Control Measures
SWMU 83
Kirtland Air Force Base
Sandia National Laboratories
Long Sled Track
SWMU 83
0
800
1,600
Feet
0
450
900
Meters
Projection: New Mexico State Plane, Central Zone 3002, 1983 North American Datum
Sandia National Laboratories, New Mexico
Environmental Geographic Information System
EGIS

Appendix C-12


Mapid = mb15131.mxd 07-6-15 SNL EGIS ORG. 4142
Modified by J. Kay on 2015/08/20 using Adobe Acrobat Pro
5360
Bldg. 6750
5360
5360
SWMU
84
5360
5360
SWSP
46
5360
Legend
SWMU 84
Stormwater Sampling Point
Surface Drainage Swale
20 Foot Contour
Road
Building/Structure
Flow Direction
Radiation Survey Boundary
SWMU
84
Kirtland Air Force Base
Sandia National Laboratories
Gun Facilities
SWMU 84
N
0
95
190
Feet
0
50
100
Meters
Projection: New Mexico State Plane, Central Zone 3002, 1983 North American Datum
Sandia National Laboratories, New Mexico
Environmental Geographic Information System

Appendix C-13



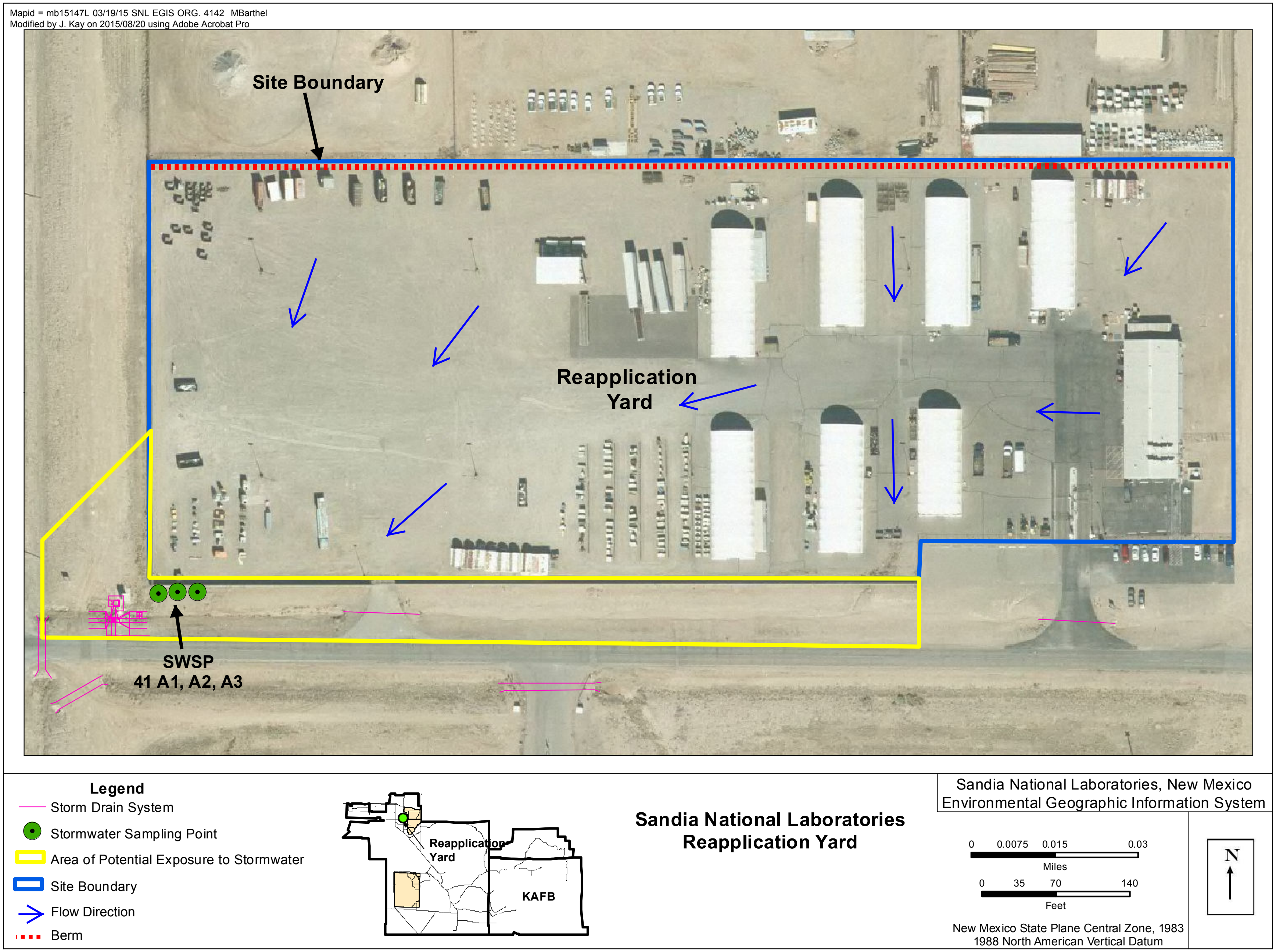
Sandia National Laboratories
Short Sled Track
SWMU 240

Sandia National Laboratories, New Mexico
Environmental Geographic Information System

Appendix C-15


Mapid = mb15157.mxd 07-20-15 SNL EGIS ORG. 4142
SWSP 08
Legend
Stormwater Sampling Point
Area of Potential Exposure to Stormwater
Stormwater Flow Direction
KAFB
CIWL
Sandia National Laboratories
Classified Waste Landfill
(CIWL)
N
0
75
150
Feet
0
40
80
Meters
Projection: New Mexico State Plane, Central Zone 3002, 1983 North American Datum
Sandia National Laboratories, New Mexico
Environmental Geographic Information System

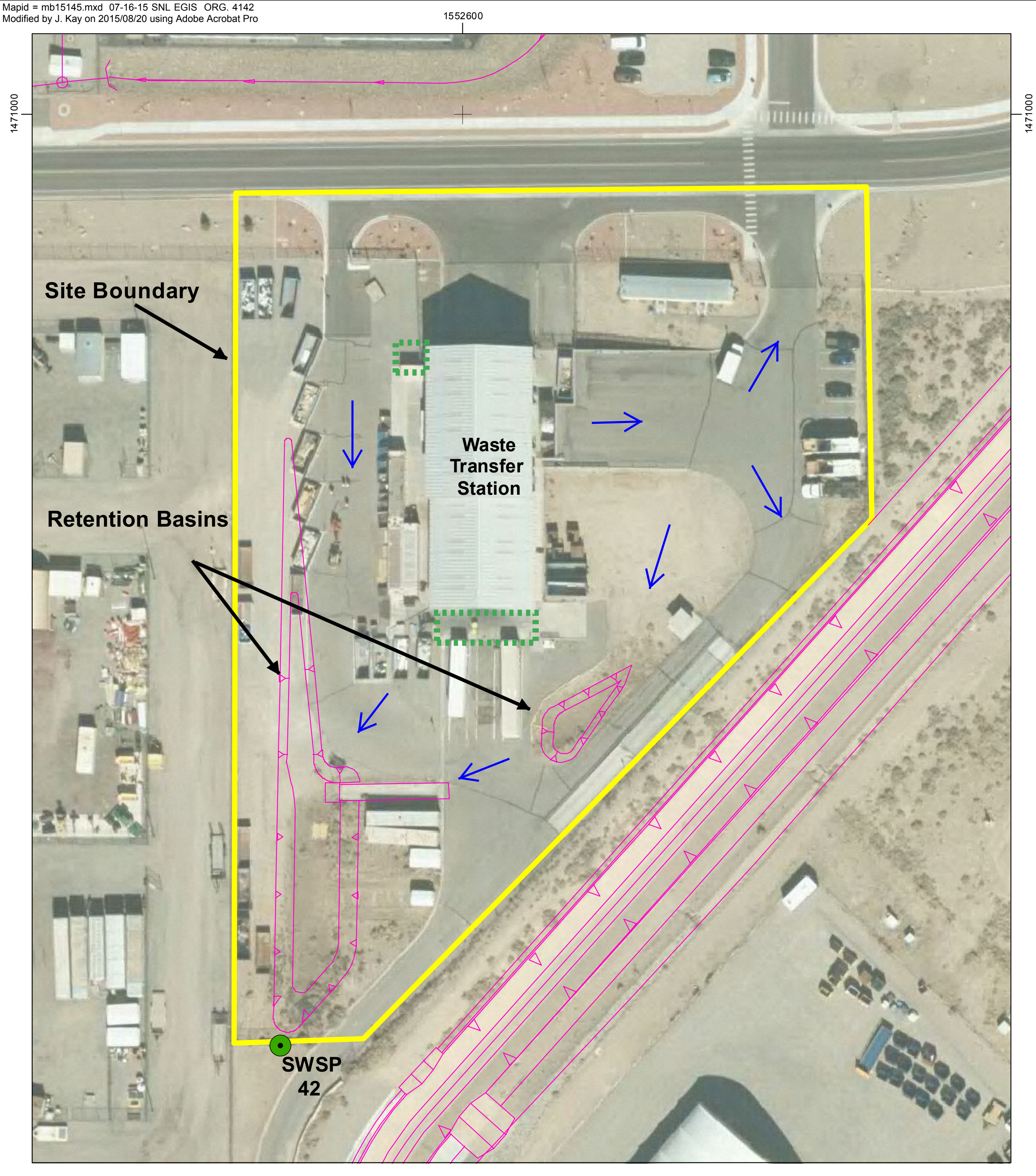
Appendix C-16

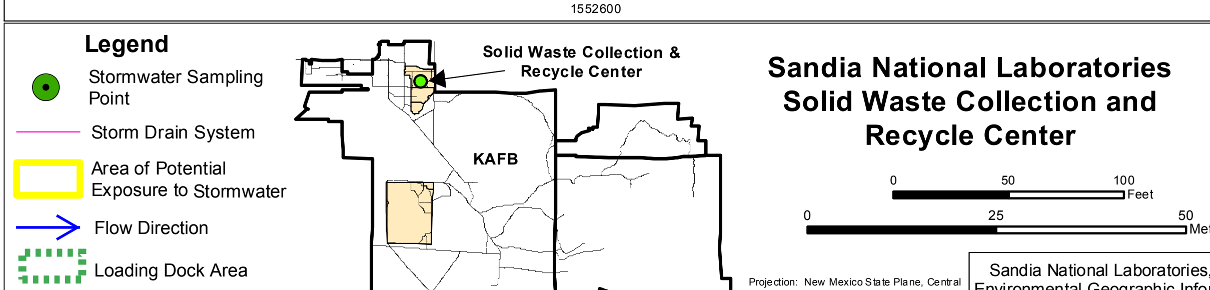


Mapid = mb15147L 03/19/15 SNL EGIS ORG. 4142 MBarthel
Modified by J. Kay on 2015/08/20 using Adobe Acrobat Pro
Site Boundary
Reapplication Yard
SWSP
41 A1, A2, A3
Legend
Storm Drain System
Stormwater Sampling Point
Area of Potential Exposure to Stormwater
Site Boundary
Flow Direction
Berm
Reapplication Yard
KAFB
Sandia National Laboratories
Reapplication Yard
Sandia National Laboratories, New Mexico
Environmental Geographic Information System
0 0.0075 0.015 0.03
Miles
0 35 70 140
Feet
New Mexico State Plane Central Zone, 1983
1988 North American Vertical Datum
N

Appendix C-17

Mapid = mb15145.mxd 07-16-15 SNL EGIS ORG. 4142
Modified by J. Kay on 2015/08/20 using Adobe Acrobat Pro





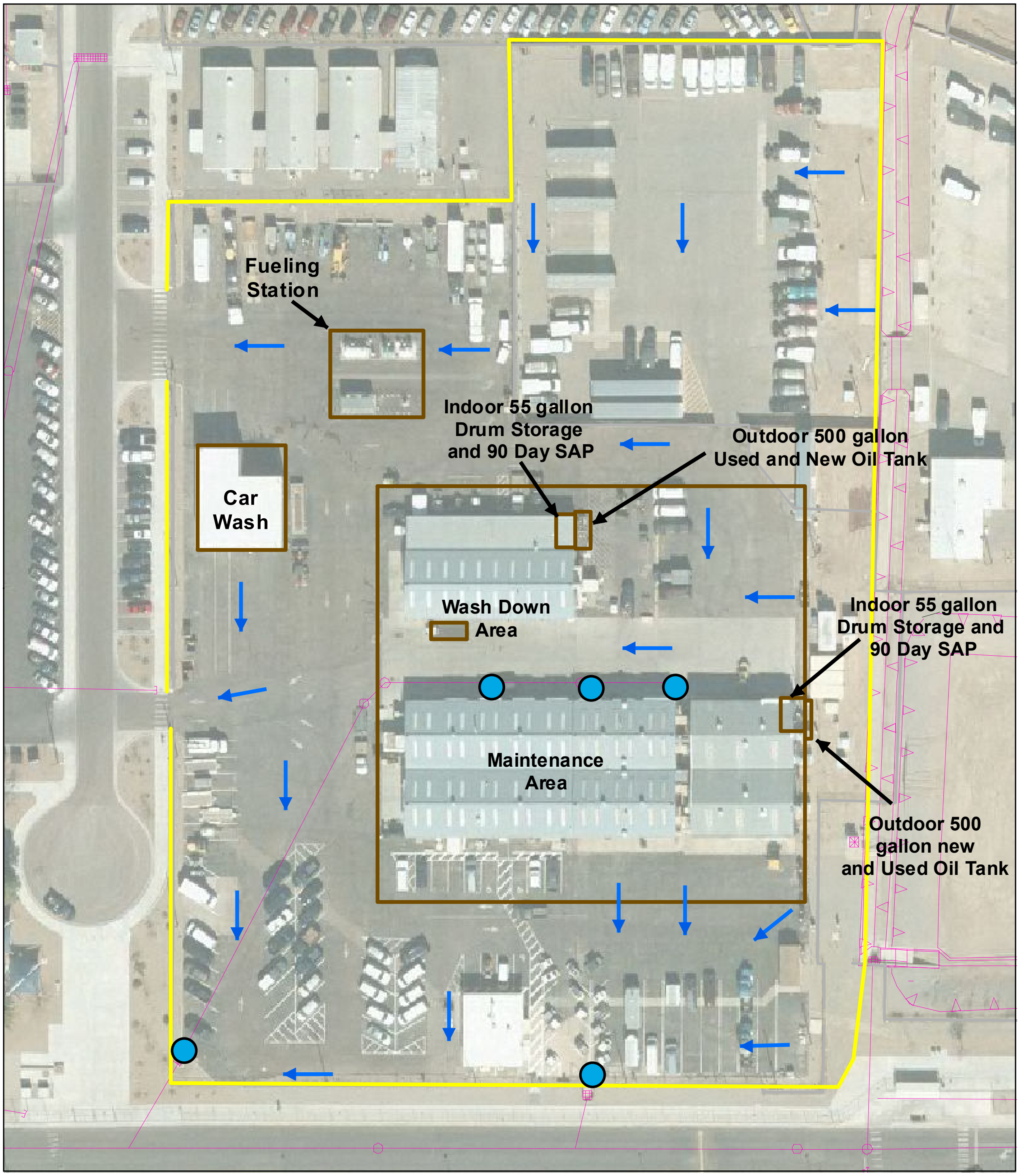
Sandia National Laboratories Solid Waste Collection and Recycle Center

Projection: New Mexico State Plane, Central Zone 3002, 1983 North American Datum

Sandia National Laboratories, New Mexico
Environmental Geographic Information System

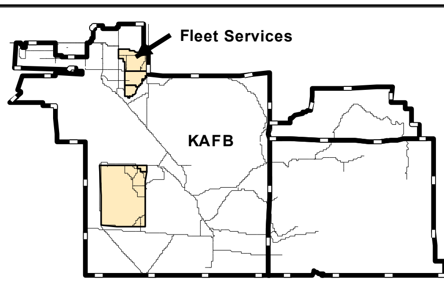
Appendix C-18

Mapid = mb15153.mxd 07-21-15 SNL EGIS ORG. 4142
Modified by J. Kay on 2015/08/20 using Adobe Acrobat Pro



Legend

- Storm Drain Inlet
- Fleet Service Boundary with Fence and Curb
- Stormwater Flow Direction
- Area of Potential Pollutant Discharge
- TA V Interior Fence
- Storm Drain System



Projection: New Mexico State Plane, Central Zone 3002, 1983 North American Datum

Sandia National Laboratories Fleet Services

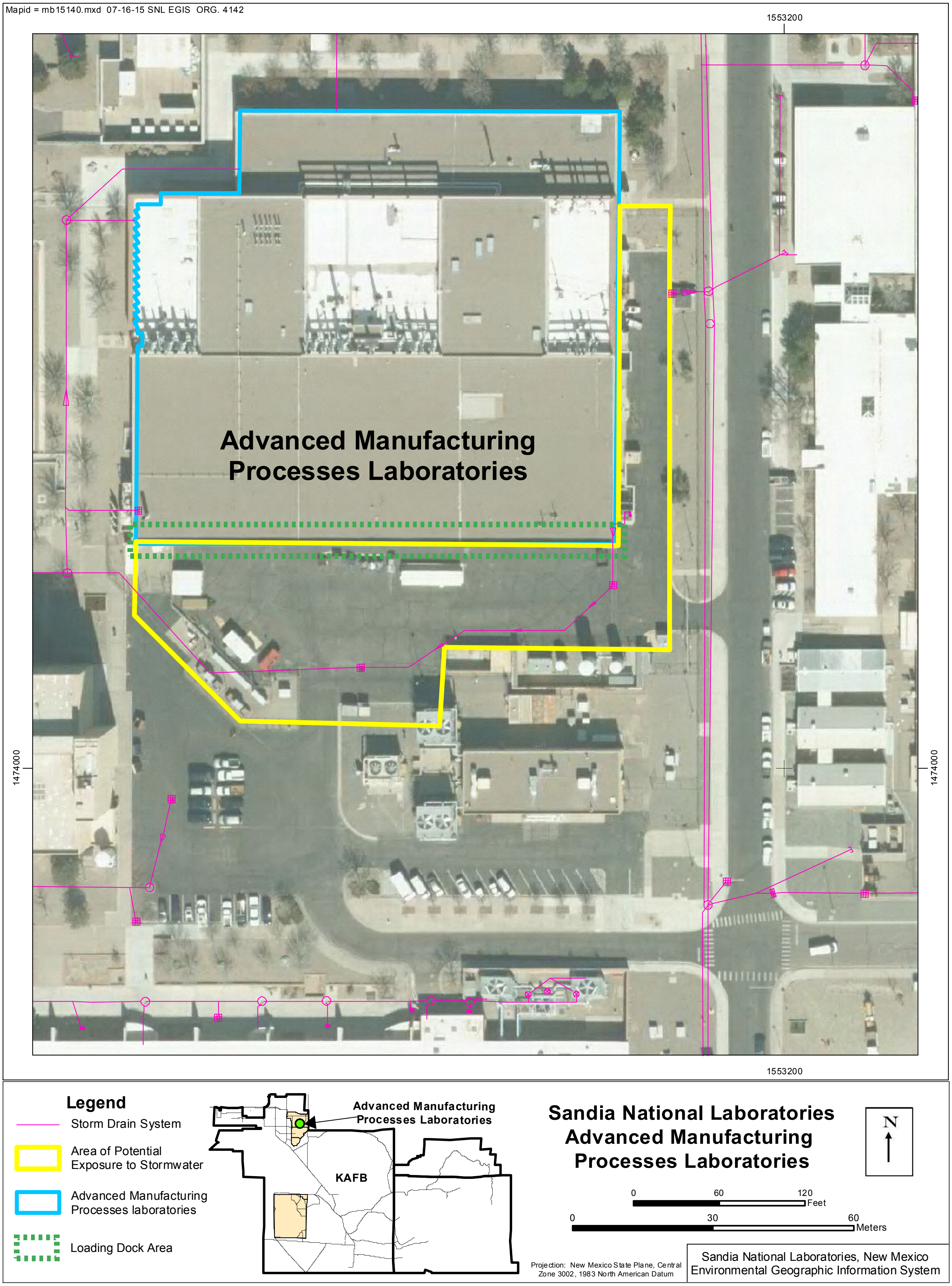
N

0 60 120 Feet

0 30 60 Meters

Sandia National Laboratories, New Mexico
Environmental Geographic Information System

Appendix C-20

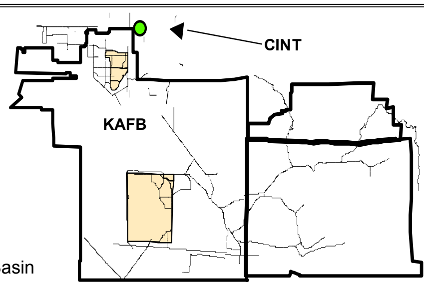

Mapid = mb15140.mxd 07-16-15 SNL EGIS ORG. 4142
1553200
1474000
1474000
Advanced Manufacturing
Processes Laboratories
1553200
Legend
Storm Drain System
Area of Potential
Exposure to Stormwater
Advanced Manufacturing
Processes laboratories
Loading Dock Area
Advanced Manufacturing
Processes Laboratories
KAFB
Sandia National Laboratories
Advanced Manufacturing
Processes Laboratories
N
0 60 120
Feet
0 30 60
Meters
Projection: New Mexico State Plane, Central
Zone 3002, 1983 North American Datum
Sandia National Laboratories, New Mexico
Environmental Geographic Information System

Appendix C-22

Mapid = mb15138.mxd 07-16-15 SNL EGIS ORG. 4142
Modified by J. Kay on 2015/08/20 using Adobe Acrobat Pro

Legend

- Storm Drain System
- SWSP = Stormwater Sample Point
- Area of Potential Exposure to Stormwater
- Building
- Loading Dock Area
- Stormwater Retention Basin



Sandia National Laboratories Center for Integrated Nanotechnology (CINT)

N

0 95 190 Feet

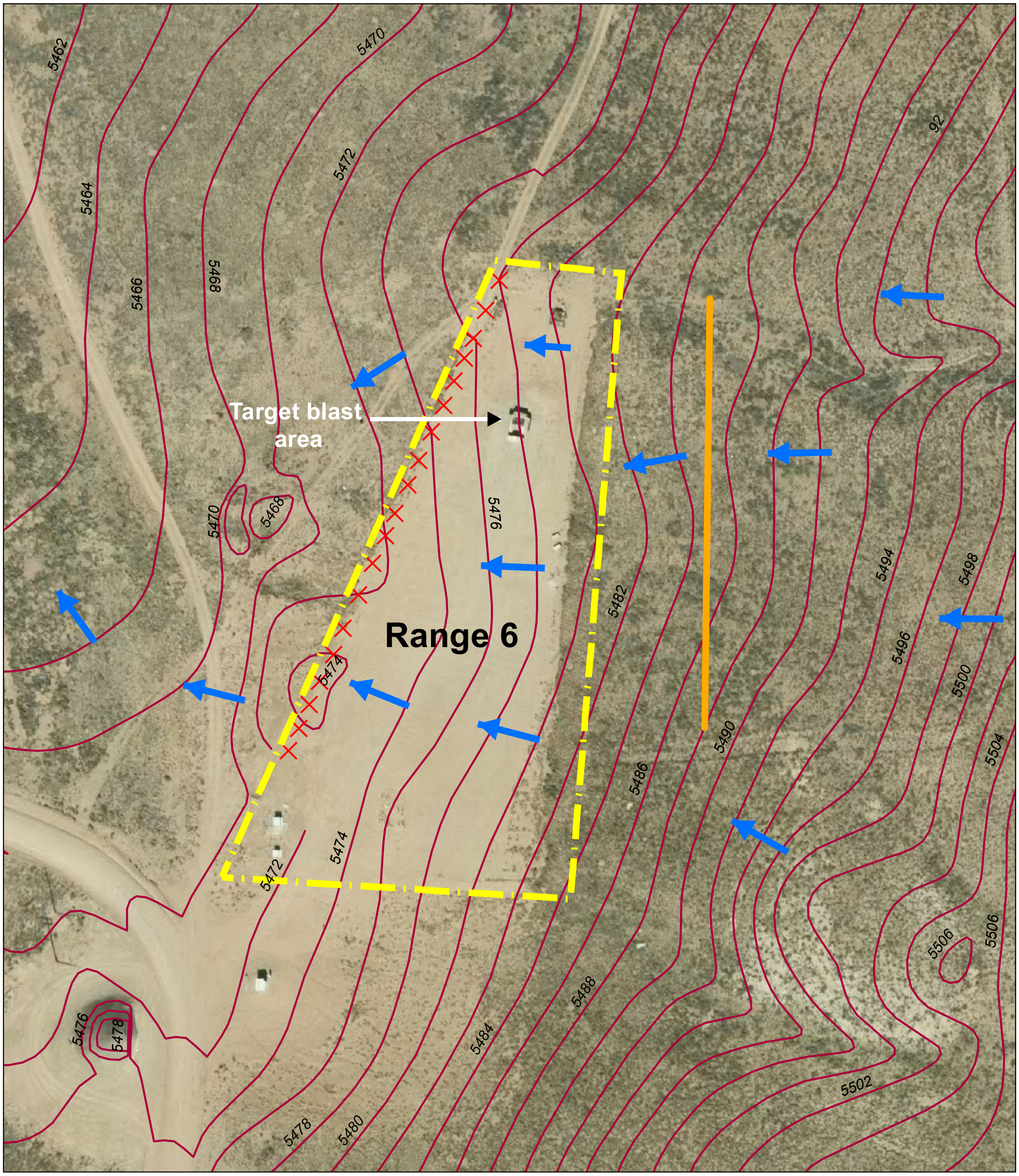
0 50 100 Meters

Projection: New Mexico State Plane, Central Zone 3002, 1983 North American Datum

Sandia National Laboratories, New Mexico
Environmental Geographic Information System

Appendix C-23

Mapid = mb16060 4/29/16 SNL EGIS ORG. 4142 MBarthel dr010286.aml



Legend

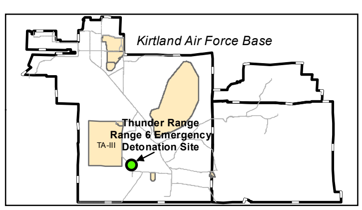
Stabilized Boundary Area

Fiber Roll

Earthen Berm

2 ft. Elevation Contour

Stormwater Flow Direction



New Mexico State Plane Central Zones, 1983
1988 North American Vertical Datum

Sandia National Laboratories Thunder Range/Range 6 Emergency Detonation Site

0 40 80 160
Scale in Feet

0 15 30 60
Scale in Meters

N

Sandia National Laboratories, New Mexico
Environmental Geographic Information System

Appendix C-24

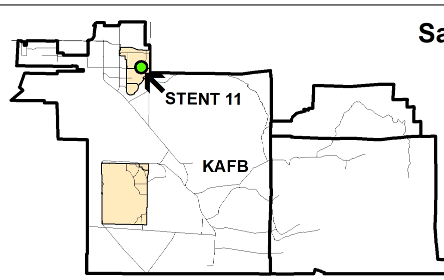
MapID = sc19114 01/16/2019 SNL EGIS ORG. 643

1552600

1552600

Legend

- Direction of drainage flow
- Low to moderate flow
- Swale
- Fence line and site boundary
- Rill
- Berm
- Stormwater Sampling Point



Sandia National Laboratories
Stormwater MSGP
STENT 11 (MSP2)

0 35 70 Feet

0 12.5 25 Meters

Projection: New Mexico State Plane, Central Zone 3002, 1983 North American Datum

Sandia National Laboratories, New Mexico
Environmental Geographic Information System

Appendix D: SNL/NM Precipitation Data

No.	**Description**
D-1	Seasonal Precipitation Characteristics and NPDES Arid Classification for Sandia National Laboratories, New Mexico
D-2	Temporal Distribution of Rain Events during the Stormwater Sampling Season

Appendix D-1

Sandia National Laboratories

Operated for the U.S. Department of Energy by
Sandia Corporation

Albuquerque, New Mexico 87185-1042

date: March 23, 2017

to: Kathie Deal and John Kay, MS 0730 (4141)

from: Joseph Fontana, MS-0730 (4143)

subject: Reference Memorandum for Seasonal Precipitation Characteristics and Climate Classification for Sandia National Laboratories, New Mexico [SNL/NM].

Important Note: This memorandum is a revision of a 2013 memo titled "Reference Memorandum for Seasonal Precipitation Characteristics and NPDES Arid Classification for Sandia National Laboratories, New Mexico [SNL/NM]", authored by Regina Deola.

The Meteorology Program operates and maintains a meteorological network at SNL/NM to provide mission support across the laboratory. The program has meteorological records including wind, temperature, humidity, and precipitation that extend back to 1994. Data from this network can be found in summarized form in the Annual Site Environmental Reports published each year. Additional real-time information from the network and GPS locations of all the sites may be found on the Meteorological Program website [http://clean-air.sandia.gov/].

Site Specific Precipitation Data for SNL/NM

Table 1 includes the monthly and annual precipitation for the A36 tower located in the northern part of Technical Area III (TA-III) at the laboratory. This tower was chosen to represent the laboratory due to its central geographic location. Table 1 shows the 1994-2016 precipitation average for TA-III, which is 8.71 inches; data from 2014 are not included in the table due to a rain gauge malfunction that occurred that year. A second precipitation gauge, tower A21, is located approximately three miles north of the A36 tower and represents TA-I and TA-II. It recorded an annual average of 8.06 inches (1995-2014). A third precipitation gauge, tower SC1, located in the foothills east of the main laboratory at an elevation of 5810 feet, recorded an annual average of 10.57 inches (1995-2014). Precipitation increases with increasing elevations towards the mountains east of the main Technical Areas.

The National Weather Service (NWS) at the Albuquerque International Airport has a long term record which supports the finding of the on-site data analysis. This weather station is approximately five miles northwest of TA-III. The 92-year period of record for the NWS Office at the airport includes an annual average of 8.65 inches of precipitation [http://www.wrcc.dri.edu/cgi-bin/cliMAIN.pl?nm0234]. It should be noted that the NWS 30 year "climate normal" that shifts every decade shows that some decades are wetter than others, but even the wettest 30 year climate [1971-2000] is below 10 inches (9.47 inches/year). Additional on-site calculations in Table 1 include the mean number of days when measureable precipitation was recorded, and the number of days per month when 0.25 inches of precipitation was recorded. Note that during the winter, several months may elapse between precipitation events that produce 0.25 inches of rain.

Seasonal Nature of SNL/NM Precipitation

At SNL/NM, the majority of the average annual precipitation falls during the July-October wet season. The main driver for this seasonal disparity in precipitation is the North American Monsoon pattern and the tropical moisture surges that arrives with it. Though it can be quite variable from year to year, the monsoon season typically manifests in central NM during the first week of July. After arrival, the monsoonal moisture surges will advance and retreat for the next 8 to 10 weeks.

Table 1. Monthly and Annual Precipitation for the A36 tower from 1994 through 2016.

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1994	0.01	0.26	0.61	0.06	2.84	0.44	0.97	4.55	1.35	1.73	1.49	0.82	**15.13**
1995	0.52	0.59	0.21	0.46	0.16	0.02	0.95	1.19	1.75	0.00	0.09	0.07	**6.01**
1996	0.34	0.21	0.02	0.00	0.00	1.44	0.60	2.83	0.79	3.00	0.66	0.00	**9.89**
1997	0.53	0.14	0.15	1.68	0.56	0.99	3.53	0.79	1.69	0.21	1.07	1.02	**12.36**
1998	0.17	0.84	2.93	0.68	0.00	0.15	2.46	1.83	0.54	1.57	0.29	0.16	**11.62**
1999	0.24	0.00	1.11	0.76	0.47	0.35	1.64	2.17	0.86	0.30	0.01	0.10	**8.01**
2000	0.14	0.29	1.44	0.00	0.00	0.34	0.40	1.25	0.08	2.45	0.96	0.25	**7.60**
2001	0.32	0.26	0.35	0.46	0.35	1.28	0.97	0.98	0.25	0.01	0.77	0.42	**6.42**
2002	0.31	0.12	0.00	0.56	0.01	0.25	0.42	1.45	1.42	0.78	0.54	0.11	**5.97**
2003	0.00	1.29	1.04	0.00	0.02	0.13	0.19	1.91	0.14	0.93	0.70	0.16	**6.51**
2004	0.17	1.46	0.68	1.12	0.00	1.01	2.53	0.56	0.71	1.09	1.00	0.36	**10.69**
2005	1.79	1.72	0.89	1.10	0.35	0.04	1.26	1.03	1.48	1.03	0.01	0.17	**10.87**
2006	0.02	0.00	0.16	0.09	0.00	1.09	4.06	6.08	0.86	1.57	0.01	1.43	**15.37**
2007	0.26	0.70	0.78	0.92	0.85	0.39	1.65	0.39	0.70	0.08	0.24	1.40	**8.36**
2008	0.47	0.48	0.00	0.36	0.52	0.01	1.67	1.47	0.01	1.35	0.25	0.54	**7.13**
2009	0.00	0.01	0.11	0.26	0.89	0.79	1.07	1.14	1.74	1.60	0.06	0.30	**7.97**
2010	0.92	0.27	0.65	0.57	0.09	1.06	0.98	1.45	1.89	0.75	0.01	1.03	**9.67**
2011	0.01	0.00	0.00	0.09	0.11	0.00	0.71	1.99	0.70	1.35	0.22	1.70	**6.88**
2012	0.44	0.41	0.18	0.59	0.38	0.05	0.81	1.02	0.23	0.00	0.17	0.23	**4.51**
2013	0.16	0.14	0.16	0.08	0.06	0.45	4.75	0.50	4.12	0.16	0.82	0.71	**12.11**
2015	0.64	0.35	0.29	0.43	2.29	0.35	2.30	0.49	0.74	1.29	0.84	0.16	**11.17**
2016	0.45	0.06	0.01	0.48	0.11	0.95	0.95	1.86	0.69	1.23	0.98	0.65	**8.42**
							WET SEASON						
Monthly Means	0.35	0.41	0.50	0.48	0.34	0.50	1.78	1.49	1.12	0.93	0.47	0.61	**8.71**
Days with >=0.01	4.05	4.45	4.78	3.86	4.50	3.77	8.82	8.60	5.36	5.41	4.86	4.91	61.5
Days with >=0.25	0.27	0.59	0.59	0.68	0.55	0.64	1.82	1.78	1.27	1.50	0.55	0.68	10.7

Table 1 indicates that the highest monthly totals and averages occur during the July/August monsoon season. During most years the 4-month period between July and October includes approximately 60 percent of the annual rainfall. The North American Monsoon generally retreats in September, but periodic typhoon, hurricane, or tropical storm remnants can affect the region in the September and October time frame. As can be seen from the monthly totals for September and October over the years, remnants do not affect the area every year.

Climate Considerations and Definition of Arid Areas

The climate of SNL/NM is typical of dry, higher altitude, continental areas with large diurnal temperature ranges and limited rainfall. Most precipitation in this area falls in brief, heavy rain-showers. While various climatic classification schemes may produce slightly different results for this area depending on the atmospheric parameters used, type of evapotranspiration accounting, and the period of record used for the scheme, they all result in a “dry” climate classification, whether it is labeled semi-arid or arid. Peveril Meigs’ desert classification system, a widely accepted system used by many organizations including the USGS, defines arid areas as areas with an average annual rainfall of less than 10 inches. This definition of arid areas results in a large portion of the NM laboratory, and all Technical Areas at SNL/NM, being classified as arid.

Periodic Variations in Rainfall Distribution

Winters and most springs lack major precipitation in this area, as can be seen in the monthly averages in Table 1. This is mainly a result of the geographic location, the position of mountain ranges between the laboratory and moisture sources, and the general global circulation pattern. Winter and spring precipitation can vary from normal when the global circulation pattern known as the Southern Oscillation is in an El-Nino phase (ENSO). The El-Nino phase may lead to increased winter and spring precipitation in the central areas of NM. The El-Nino periods do not always result in an increase in each month when the pattern is present, but does tend to increase the annual precipitation for the year. The temporal duration of the El-Nino and La-Nina phases can be as short as 7 months, and as long as 3 years. Historically, the El-Nino return cycle has varied from as few as three years to as long as seven years. During the La-Nina phase of the ENSO, multiple years of below normal rainfall may be recorded. Current climate change research suggests that for many locations in the southwestern US, climate change may result in periods with La-Nina like annual precipitation, with an increase in the intensity and frequency of droughts.

Summary

Virtually all SNL/NM areas west of the foothills are classified as arid areas. Some remote outdoor test areas in the mountains and foothills may have annual rainfall over 10 inches a year. While precipitation is limited in the vicinity of SNL/NM, approximately 60 percent of the annual rainfall occurs in 4 months of the year during the July/August monsoon season and into the early fall. It is during these 4 months from July to October that there is a better chance of having a precipitation event that produces one quarter inch of rain or greater in a 24-hour period.

Associated Documentation

- Prein, A. F., G. J. Holland, R. M. Rasmussen, M. P. Clark, and M. R. Tye (2016), Running dry: The U.S. Southwest’s drift into a drier climate state, Geophys. Res. Lett., 43, doi:10.1002/2015GL066727.
- Mitchell, David L., Dorothea Ivanova, Robert Rabin, Timothy J. Brown, and Kelly Redmond. "Gulf of California Sea Surface Temperatures and the North American Monsoon: Mechanistic Implications from Observations." Journal of Climate 15.17 (2002): 2261-281.
- Koster, Randal D., Hailan Wang, Siegfried D. Schubert, Max J. Suarez, and Sarith Mahanama. "Drought-Induced Warming in the Continental United States under Different SST Regimes." Journal of Climate 22 (2009): 5385-400.
- Higgins, R. W., and W. Shi. "Dominant Factors Responsible for Interannual Variability of the Summer Monsoon in the Southwestern United States." *Journal of Climate* 13 (2000): 759-76.
- W, K. R. "What is a Desert?" *What is a Desert?* USGS, 18 Dec. 2001. Web. 22 Mar. 2017. <https://pubs.usgs.gov/gip/deserts/what/>.
- "The North American Monsoon." *The North American Monsoon*. Climate Prediction Center, n.d. Web. 22 Mar. 2017. <http://www.cpc.ncep.noaa.gov/products/outreach/Report-to-the-Nation-Monsoon_aug04.pdf>

Copy to:
MS-0729 Regina A. Deola, Org 4143
MS-0651 Customer Funded Record Center, Org 09532

Appendix D-2

Sandia National Laboratories

Operated for the U.S. Department of Energy by
Sandia Corporation

Albuquerque, New Mexico 87185-0729

date: August 19, 2015

to: Kathie J. Deal, MS-0730 (4143)

Joseph Fontana

from: Joseph H. Fontana, MS-0730 (4143)

subject: Temporal Distribution of Rain Events during the Stormwater Sampling Season

The goal of this memorandum is to document the distribution of antecedent dry periods prior to rain events during the stormwater sampling season. The sampling season includes the months of July, August, September, and October, when over 60 percent of the annual rainfall occurs in the vicinity of SNL/NM. Much of the wet season's precipitation during July and August can be attributed to the North American Monsoon (NAM) weather pattern. Monsoonal moisture arrives in surges, triggering consecutive days of rain.

Local Precipitation Data and Study Parameters

Precipitation data from three meteorological towers around SNL/NM was used in this study. Table 1 identifies the tower locations and co-ordinates. The analysis includes precipitation for all years between 1994 and 2014, with the exceptions of 1994 for SC1, 2014 for A36, and 1997, 1999, and 2001 for A21.

Table 1: Tower Locations and Coordinates

Tower ID	General Location	GPS Coordinates
A21	TA-II	35 02.42N 106 32.59W
A36	Northern TA-III	34 59.76N 106 32.20W
SC1	Coyote Canyon Foothills	34 59.29N 106 28.65W

For purposes of this study a rain event is defined as a day in which 0.01 inches or more of rain was recorded at the sampling location. The antecedent dry period was the number of days prior to the rain event with no rain. Antecedent dry periods are characterized by number of days, running from zero (consecutive days of rain) to more than seven. For the first rain event in each wet season, the antecedent dry period is considered the number of completed days since the beginning of the wet season, July 1st. Dry periods of three or more days are of particular importance for this study.

Results

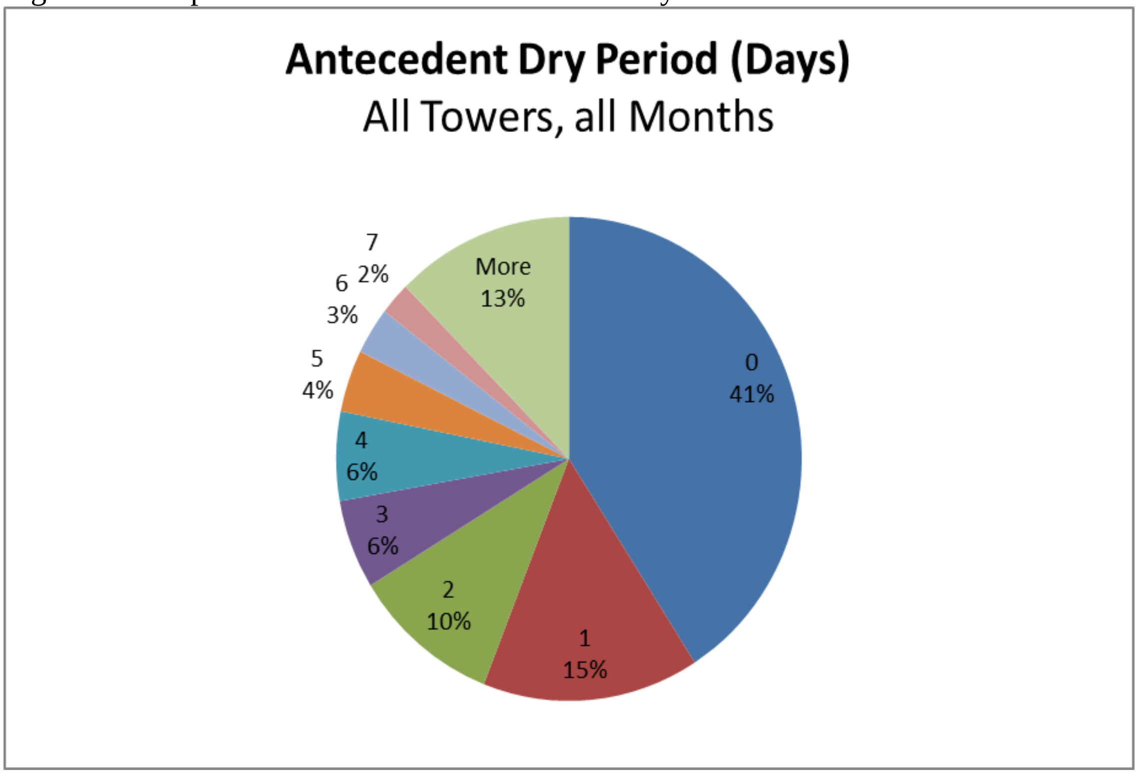
The total number of events and monthly distribution of the rain events for the analysis is summarized in Table 2. The total number of years analyzed is also included in Table 2 to assist with identifying percentages. On Average, July and August contain more events (8-10/month) than September and October (5-6/month).

Table 2: Number of Rain Events

Tower	Total Events	July	August	September	October
A21 (18 years)	492	158	141	103	90
A36 (20 years)	559	172	177	110	100
SC1 (20 years)	661	208	181	115	107

Each rain event was then analyzed to identify the antecedent dry period. Figure 1 shows the distribution of length, in days, for the antecedent dry periods. Figure 1 is a composite of all three towers and all four months.

Figure 1: Composite Distribution of Antecedent Dry Periods



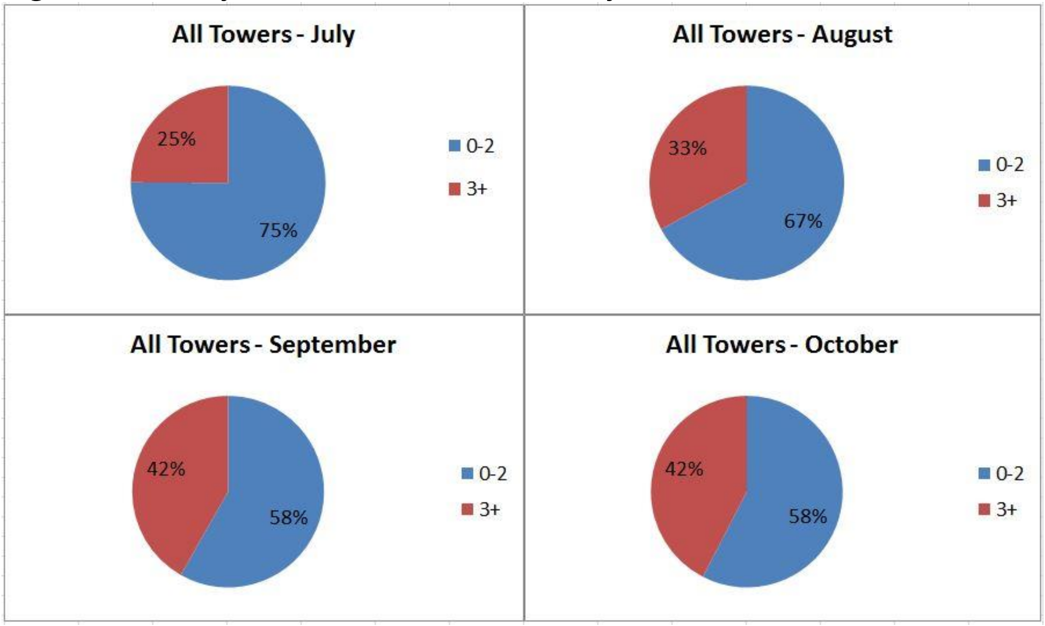
Across all towers and months, the most likely antecedent dry period is zero days, indicating that rain fell the day before. Varying slightly by tower and month, dry periods of zero days made up between 35 and 50% of occurrences (not shown). As Figure 1 shows, longer antecedent dry periods occur less frequently than shorter ones. Across all towers and all months, antecedent dry periods of less than three days made up 66% of occurrences. Antecedent dry periods of three or more days made up 34%.

Discussion

The distribution of antecedent dry period length changes considerably over the course of the wet season. This can be attributed to changes in the regional weather pattern, specifically a transition from monsoonal surges of moisture in July and August to synoptically-driven precipitation events in September and October. Figure 2 shows the percentage of short dry

periods (less than three days) for each month. In July, short dry periods make up 75% of occurrences. This drops to 67% in August and then 58% in both September and October.

Figure 2: Monthly Variations in Antecedent Dry Period Distribution



Slight variations are present between the three towers. These are caused by events that were observed at at least one tower, but not all of them. Variations were larger in July and August during the NAM. Figure 3 shows the percentage of antecedent dry periods that were less than three days, broken down by both tower and month.

Table 3: Breakdown of Antecedent Dry Periods by Tower and Month

		A21	A36	SC1	Total
July	0-2 days	73.42%	71.51%	79.33%	75.09%
	3+ days	26.58%	28.49%	20.67%	24.91%
August	0-2 days	65.25%	66.67%	69.06%	67.13%
	3+ days	34.75%	33.33%	30.94%	32.87%
September	0-2 days	58.25%	58.18%	58.26%	58.23%
	3+ days	41.75%	41.82%	41.74%	41.77%
October	0-2 days	56.67%	57%	58.88%	57.58%
	3+ days	43.33%	43%	41.12%	42.42%

It should be noted that many events during the wet season have totals of only 0.01 inches and the majority of events have totals less than 0.15 inches for the locations in this study. In addition, given the spotty nature of monsoon rains, the local accumulation of precipitation at one point may not give a sense of areal accumulations. These notes are identified here because they may further impact the number of samples that may be obtained in any one sampling season.

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Appendix E: Criteria for Revision of Permitted Sites

No.	Description
E-1	Criteria for Removal of Sites Permitted under the 2008 MSGP
E-2	Revisions to Coverage of Permitted Sites
E-3	Parameters that Meet Monitoring Requirements for the 2015 MSGP Permit Term

Appendix E-1

Criteria for Removal of Sites Permitted under the 2008 MSGP

1. Sites that have been approved under RCRA at SNL/NM and Determined to be No Longer Eligible for Coverage under the MSGP

Seven Solid Waste Management Units (SWMUs), the Chemical Waste Landfill (CWL), and the Corrective Action Management Unit (CAMU); listed below, that were previously covered under the 2008 MSGP, have been determined to no longer meet the requirements under Subpart K – Sector K – Hazardous Waste Treatment, Storage, or Disposal Facilities.

- SWMU 4, Liquid Waste Disposal System Surface Impoundment
- SWMU 28-2, Mine Site
- SWMU 46, Old Acid Waste Line Outfall
- SWMU 91, Lead Firing Range
- SWMU 196, Cistern
- SWMU 233, Storm Drain System Outfall
- SWMU 234, Storm Drain System Outfall
- Chemical Waste Landfill
- Corrective Action Management Unit

The seven SWMUs were recently approved for Corrective Action Complete (CAC) through the Sandia National Laboratories (SNL) Resource Conservation and Recovery Act (RCRA) Facility Operating Permit (RCRA Permit), issued in January 2015. Approval and closure through RCRA is, in part, a determination that the sites have no significant materials exposed to stormwater. Any of the sites listed above that are approved with controls, are monitored and maintained in accordance with a Long Term Monitoring and Maintenance Plan (LTMMP) or a Post Closure Care Plans (PCCP) under RCRA. The LTMMP establishes required institutional controls, both physical and administrative, for these SWMUs and is managed through the Long Term Stewardship Program (LTS) at SNL. The LTS ensures compliance with sites approved and closed under the RCRA Permit by conducting routine site visits and documenting site conditions that specifically address monitoring and maintenance of erosion and sediment controls.

SWMUs at SNL/NM are defined as Hazardous Waste Treatment, Storage or Disposal Facilities under Sector K of the MSGP. Those SWMUs that have not been approved for CAC under the RCRA Permit and that have potential for contaminant exposure to stormwater are covered under the MSGP Permit. SWMUs approved under RCRA are no longer required to have MSGP permit coverage based on the CAC determination that the site no longer poses a risk to human health and the environment. If the site has been approved through RCRA for CAC with controls, monitoring and maintenance requirements as set forth in the RCRA Permit are implemented to ensure that the site does not pose a risk to human health and the environment (EPA Guidance FR 68 8757).

Some sites are discussed in more detail below to provide additional site history and associated permitting implications. SWMU 46 is closed under RCRA with controls but is associated with a corrective action under the 2008 MSGP. The SWMU and corrective action are discussed in more detail below. The CWL and CAMU, both previously covered under the MSGP; are approved under the RCRA Permit and monitored and maintained under a site-specific PCCP. Co-mingling of stormwater and pollutant discharges is not allowable under the PCCPs. Closure of the CWL and CAMU are discussed in more detail below.

1.1 Criteria for Removing SWMU 46

SWMU 46, the Old Acid Waste Line Outfall, was approved for CAC with controls in January 2015 and the potential for pollutant discharge from this area is managed through the RCRA LTMMP. MSGP and LTS inspections of SWMU 46 have consistently reported stable soil and vegetation conditions.

While SWMU 46 no longer requires coverage, stormwater monitoring of the Technical Area IV (TA-IV) Escarpment (which includes the formerly permitted SWMU 46) will continue under a corrective action plan. Stormwater sampling results from 2010 to 2014 at Stormwater Sampling Point (SWSP) 11, located downstream from SWMU 46, consistently exceeded EPA MSGP benchmark values for cadmium, cyanide and silver; a condition that triggered corrective action. While SWSP-11 was installed in association with SWMU 46, it was located at the base of the TA-IV Escarpment and had the potential to collect runoff from other pollutant sources including other SWMUs. In addition to benchmark exceedances, sediment load (likely the carrier of the cadmium and silver) identified at SWSP-11 was addressed as part of the corrective action (to improve stormwater management) on the TA-IV Escarpment. Erosion and sediment controls installed in 2010 were only partially effective in reducing sediment loss and pollutant discharges. In January 2015, more extensive sediment controls, including large velocity-dissipation check dams and a 1.3 acre sediment basin, were installed along the Escarpment to capture the sediment-laden runoff from the Escarpment slopes and prevent future exceedances. The former SWSP-11 has been replaced with sample collection and monitoring at the discharge point of the sediment basin. This sample point is defined as SWSP-44 and addressed in Section 5 of the SWPPP, version 7 dated August 24, 2015.

1.2 Criteria for Removal of the Chemical Waste Landfill

Because the Chemical Waste Landfill (CWL) is closed and not operating under interim status or under Subpart C of RCRA, discharges from this site are not covered under the MSGP. The CWL is formally closed with a cover that has been approved as the final remedy. The CWL is managed under a PCCP in accordance with RCRA 40 CFR 264, Subpart G as set forth in the SNL/NM RCRA Permit. The PCCP requires that the landfill is properly closed and capped and has no significant materials exposed to stormwater. The LTS Program ensures compliance with the requirements of the PCCP, including all routine monitoring and maintenance.

1.3 Criteria for Removal of the Corrective Action Management Unit

Because the Corrective Action Management Unit (CAMU) is closed and not operating under interim status or under Subpart C of RCRA, discharges from this site are not covered under the MSGP. The CAMU is a containment cell closed with a cover that is managed under a PCCP, under 40 CFR 264, Subpart G as set forth in the SNL/NM RCRA Permit. As required in the PCCP, Sandia must "maintain the integrity and effectiveness of the final cover by making repairs as necessary to correct the effects of settling, subsidence, erosion, plant or animal intrusion, or other events that compromise the final cover" (SNL/NM 2014[1]). The LTS Program ensures compliance with the requirements of the PCCP, including all routine monitoring and maintenance.

2. Additional Discharge Site at SNL/NM Eligible for Coverage under the 2015 MSGP

The SNL Stormwater Program conducted an internal review to assess discharges from activities at new and existing buildings not currently covered under the MSGP. Industrial activities that match sector descriptions based on the Standard Industrial Classification (SIC) Codes listed in MSGP Appendix D: Facilities and Activities Covered, are eligible to be covered under the Permit. The assessment resulted in one additional permitted site at SNL/NM: Fleet Services, which is most appropriately matched to SIC industrial group 4173 (Terminal and Service Facilities for Motor Vehicle Passenger Transportation). Discharges from Fleet Services are eligible for coverage under Sector P, Land Transportation and Warehousing, of the 2015 MSGP.

A detailed description of Fleet Services including control measures, pollutant sources, and potential pollutant discharges is presented in Section 3 of the SWPPP; version 7 dated August 24, 2015.

[1] U.S. Department of Energy/Sandia Corporation, January 2015, Resource Conservation and Recovery Act Facility Operating Permit, EPA ID No. NM5890110518 https://www.env.nm.gov/HWB/documents/FINAL_SNLPermit_Parts_1-8__1-16-2015.pdf

Appendix E-2

Revisions to Coverage of Permitted Sites, June 2016

1. SWMU Approved under RCRA at SNL/NM and Determined to be No Longer Eligible for Coverage under the MSGP

One Solid Waste Management Unit (SWMU), the Mixed Waste Landfill (MWL), SWMU 76, which was previously covered under the 2015 MSGP, has been determined to no longer meet the requirements under Subpart K – Sector K – Hazardous Waste Treatment, Storage, or Disposal Facilities. This SWMU has been removed from the Sandia National Laboratories, New Mexico (SNL/NM) Stormwater Pollution Prevention Plan (SWPPP) under the Multi-Sector General Permit (MSGP).

SWMUs approved under RCRA are no longer required to have MSGP permit coverage based on the Corrective Action Complete (CAC) determination that the site no longer poses a risk to human health and the environment. If the site has been approved through RCRA for CAC with controls, monitoring and maintenance requirements as set forth in the RCRA Permit are implemented to ensure that the site does not pose a risk to human health and the environment (EPA Guidance FR 68 8757). Those SWMUs that have not been approved for CAC under the RCRA Permit and that have potential for contaminant exposure to stormwater are covered under the MSGP Permit.

The MWL was recently approved for CAC with controls in accordance with 40 CFR 264.101, as a modification of the Sandia National Laboratories Resource Conservation and Recovery Act (RCRA) Facility Operating Permit (RCRA Permit), issued in January 2015, permit number NM5890110518 (“Permit”). The Final Order for approval of CAC was issued for the MWL in February 2016. Approval and closure through RCRA is, in part, a determination that the site has no significant materials exposed to stormwater.

As a SWMU approved with controls, the MWL is monitored and maintained in accordance with a Long Term Monitoring and Maintenance Plan (LTMMP) under RCRA. The LTMMP ensures that the MWL Evapotranspirative (ET) Cover will perform as designed and site conditions will remain protective of human health and the environment. Design elements of the ET Cover include stormwater diversion structures that prevent stormwater run-on and runoff (DOE/Sandia 2007). Routine inspections and maintenance of the ET Cover, as required in the LTMMP, include all elements of stormwater controls.

As a condition of the February 2016 Final Order, a Feasibility Report will be due in 2019. The Report is required to analyze the continued effectiveness of the ET cover and reevaluate the

feasibility of excavation. If at any time, the LTMMP requirements change, eligibility for coverage under the MSGP will be revaluated.

2. Sector N2 Operational Areas at SNL/NM Monitored for Sector N1 Requirements in 2015

Two operational areas at SNL/NM, the Reapplication Yard and the Solid Waste Collection and Recycle Center (SWCRC), are covered under Sub-sector N2 of the MSGP: Scrap Recycling and Waste Recycling Facility/ Source Separate Recycle Materials. Sample collection points were established at these two areas under the 2015 MSGP and samples were inadvertently analyzed in October 2015 for parameters required under Sub-sector N1. Analytical results were reported to EPA. As described in Section 3.4 of the SNL/NM MSGP SWPPP, source-separated recycle materials are received at Reapplication and the SWCRC and prepared for shipment to approved, off-site, solid waste landfills. No distribution of recycled materials occurs as part of the operations at Reapplication and the SWCRC. Therefore, analytical requirements for Sub-sector N1 do not apply. Sample collection for the 2016 monitoring periods will continue for visual assessments, but analytical data will not be collected for N1 parameters.

Analytical results for certain Sub-sector N1 parameters that were inadvertently included in the October 2015 sample collection at Reapplication and the SWCRC exceeded benchmark values. At both areas, iron exceeded the MSGP benchmark value. Iron is naturally occurring in local bedrock and soils (Appendix I). At the Reapplication Yard, Total Suspended Solids (TSS) also exceeded the benchmark. The three exceedances were high enough that an exceedance of the four quarter average would be mathematically certain. It is likely that the installation of new in-ground samplers in unconsolidated, unstabilized soils contributed excessive amounts of sediment to the collection container and that the iron is derived from natural deposits. Additional data and analysis would be needed to determine if the iron is from natural or industrial sources.

Because the areas are not covered under a MSGP Sub-sector that has benchmark monitoring requirements, monitoring of these parameters will continue under Sandia’s Corporate Environmental Surveillance Stormwater Monitoring Program in order to monitor analytes that exceeded benchmark values in October of 2015. Monitoring procedures will be consistent with the MSGP requirements for benchmark monitoring. In addition, as a best management practice, to control for the soil disturbance caused by the installation of the samplers, coir mats have been installed around the outfall and collection points, to minimize discharge of sediments and metals from these sites.

3. Additional Discharge Site at SNL/NM Eligible for Coverage under the 2015 MSGP

Range 6, located on Thunder Range, southeast of the southern boundary of TA III, has been designated as a detonation site for emergency destruction of waste materials under an Emergency Permit that would be issued by the New Mexico Environmental Department Hazardous Waste Bureau (NMED HWB). Although this activity is anticipated to be extremely infrequent, when such activities occur, the site will operate under Subpart K – Sector K – Hazardous Waste Treatment, Storage, or Disposal Facilities – of the MSGP. For details on site description and site-specific stormwater controls, refer to Thunder Range/ Range 6 Emergency Detonation Site, Section 3.2.7 of the SNL/NM MSGP SWPPP.

4. References

U.S. Department of Energy/Sandia Corporation, September 2007, Mixed Waste Landfill Long Term Maintenance and Monitoring Plan https://www.env.nm.gov/hwb/documents/final_snl_mwl_ltmmp_sept_2007.pdf

Revisions to Coverage of Permitted Sites, July 2018

1. Solid Waste Management Units Approved under RCRA at SNL/NM and Determined to be No Longer Eligible for Coverage under the MSGP

Four Solid Waste Management Units (SWMUs) previously operating under the 2015 Multi-Sector General Permit (MSGP) were approved by the New Mexico Environment Department Hazardous Waste Bureau (NMED HWB) for Corrective Action Complete (CAC) status on June 15, 2018. The Final Decision for site status became effective 30 days after the date of the approval letter; effective date July 15, 2018 (NMED 2018).

The four SWMUs previously permitted under the MSGP and approved by NMED HWB on June 15, 2018 are:

- SWMU 8/58, Coyote Canyon Blast Site.
  - Defined by NMED as two separate SWMUs: SWMU 8, Open Dump (Coyote Canyon Blast Area) which is enclosed within the larger SWMU 58; and SWMU 58, Coyote Canyon Blast Area.
  - Both SWMUs 8 and 58 were approved for CAC on June 15, 2018.
- SWMU 68, Old Burn Site
- SWMU 502, Building 9938 Surface Discharge Site

A SWMU approved for CAC is no longer required to have MSGP coverage based on the CAC determination that the site no longer poses a risk to human health and the environment (EPA Guidance FR 68 8757). If the site has been approved for CAC with controls, monitoring and maintenance requirements, as set forth in the hazardous waste facility operating permit,[1] are implemented to ensure that the site does not pose a risk to human health and the environment.

2. Results of 2018 Sector AC Site Assessment

An assessment of the four Sector AC – Electronic, Electrical, Photographic, and Optical Goods was performed in 2018 to review the potential for sites to discharge stormwater from permitted sector activities (the eligibility requirement for MSGP coverage). Based on the assessment results, three of the sites will change as follows:

- Building 858 Complex will be removed from MSGP coverage because production activities and waste streams associated with the sector activities do not have a potential to come into contact with precipitation or stormwater runoff. While the Building 858 Complex has a Sector AC activity, it was confirmed that all of the production activities and waste stream activities associated with the sector activities occur inside.
- Building 870 Complex will be removed from MSGP coverage because production activities are not categorized under Sector AC. Furthermore, production and waste

streams associated with the sector activities do not have a potential to come into contact with precipitation or stormwater runoff.

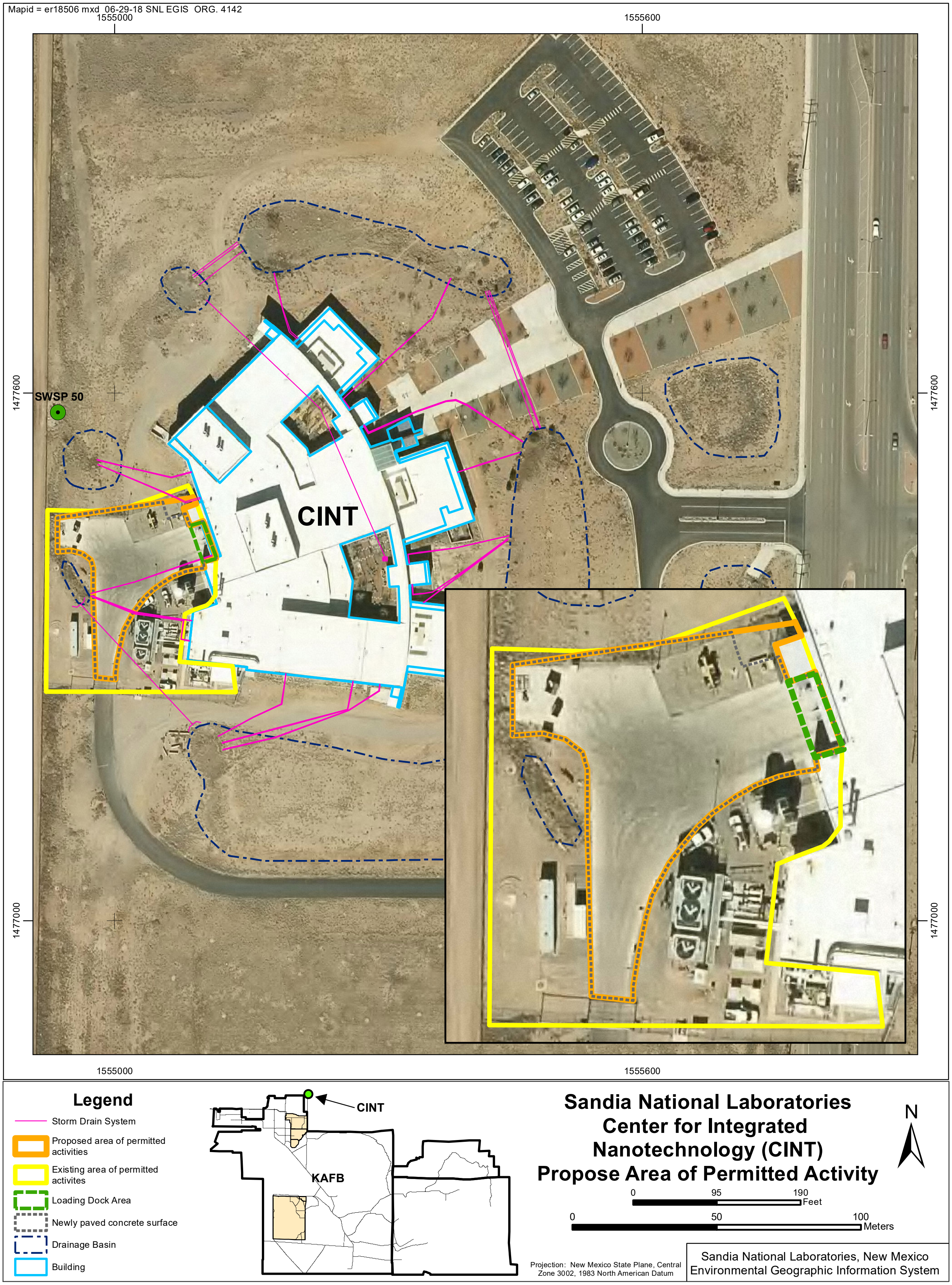
- Building 518 (Center for Integrated Nanotechnology [CINT]) was confirmed to have a Sector AC activity; however, the currently permitted boundary extends beyond the sector activities. The permitted boundary for CINT will be reduced to more accurately characterize the site area with the potential for permitted sector activities to come into contact with precipitation or stormwater runoff. Figure 1 includes a picture of the former permitted boundary and the new reduced area. Best management practices, routine inspections, and stormwater monitoring will continue to prevent and assess stormwater discharges from this site.

3. References

Borrego, J.C. (New Mexico Environment Department), June 2018, Letter to Jeffrey Harrell (U.S. Department of Energy) and Jaime L. Moya (National Technology and Engineering Solutions of Sandia), *Approval for Corrective Action Status for Six Solid Waste Management Units, May 2016*, Sandia National Laboratories, EPA ID# NM5890110518. June 15, 2018.

[1] Resource Conservation and Recovery Act ("RCRA") Facility Operating Permit for Sandia National Laboratories, EPA ID No. NM5890110518

Figure 1: Former and New MSGP Boundaries for CINT



Revisions to Coverage of Permitted Sites, May 2019

1. Newly Identified Site Eligible for Coverage under the 2015 MSGP

The STENT 11 (MSP2) site was identified in December of 2018 as eligible for coverage under the 2015 MSGP. Expansion of activities at this site meets the criteria for Subsector N2, Source-separated Recycling. Details for this site has been added to all appropriate sections of the 2019 Version 11 MSGP Stormwater Pollution Prevention Plan, including a detailed site description in Section 3.4.3.

Appendix E-3

Parameters that meet Monitoring Requirements for the 2015 MSGP Permit Term

1. Introduction

At the end of each calendar year, a review of analytical data is conducted by the Stormwater Program at Sandia National Laboratories, New Mexico (SNL/NM) for outfalls of sites permitted under the 2015 Multi-Sector General Permit (MSGP). While the focus of the review is to determine if exceedances of applicable benchmark values (MSGP Part 9) occurred and if those exceedances required corrective action, a determination is also made of parameters that have met monitoring requirements for the permit term.

A parameter no longer requires monitoring for the permit term if, after collection of four consecutive samples, the average of the four sample values for that parameter does not exceed the applicable benchmark value (MSGP, Part 6.2.1.2, SNL/NM SWPPP, Section 5.3.1.2). The following sections of this Appendix track determinations for parameters that meet this criterion for no additional sampling as they are identified.

Details on all MSGP sites and outfalls can be found in the SNL/NM SWPPP viewable at http://digitalrepository.unm.edu/snl/.

2. October 2015 through the October 2016 Monitoring Periods

Review of analytical data for outfalls monitored under the 2015 MSGP, from October 2015 (the first monitoring period under the newly issued 2015 MSGP) through October 2016; resulted in the identification of 3 outfalls where all parameters**Error! Bookmark not defined.** met the criterion for no additional sampling. All three outfalls receive discharge from Sector K industrial sites - Hazardous Waste Treatment, Storage, or Disposal Facilities. The 3 outfalls are as follows:

- Stormwater Sample Point (SWSP) 40, at the Hazardous Waste Handling Unit (HWHU)
- SWSP 49, at the Radioactive and Mixed Waste Management Unit (RMWMU)
- SWSP 52, that captures discharge from both the TA V Sandlot and the Auxiliary Hot Cell Unit

All of the following Sector K parameters at each of the outfalls listed above did not exceed the applicable benchmark value for four consecutive sample collections:

- Total Arsenic
- Dissolved Cadmium
- Cyanide
- Total Magnesium[1]
- Total Mercury
- Total Selenium
- Dissolved Silver
- Dissolved Lead
- Ammonia
- Chemical Oxygen Demand

Refer to **Table 2.1** below for data results. Data can also be viewed at https://echo.epa.gov/. Search guidance for SNL data can be found at http://digitalrepository.unm.edu/snl_msgp.

Two of the outfalls described above, SWSP 40 and 49, captured all discharge at the site in a detention basin, allowing for enough volume to sample for all parameters in each monitoring period. The third outfall, SWSP 52, was the only passive sampler that collected discharge during all monitoring periods since October 2015 (the first monitoring period under the 2015 Permit).

No parameters at the remaining 9 outfalls (all passive samplers) met the monitoring requirements. This was not due to data results that exceeded benchmark values (8 of the 9 remaining outfalls had no exceedances) but instead was a result of the lack of data during the 2016 wet season. For the 9 remaining outfalls, two or more monitoring periods resulted in no discharge and in several locations, where discharge did occur, not all parameters could be analyzed due to insufficient volume of stormwater. Although insufficient volume is an inherent challenge for arid environments, it was particularly evident during the 2016 wet season. Based on SNL meteorological data, the season was characterized by storm events that were separated by longer than average dry conditions.

[1] Total magnesium exceeded the regulatory benchmark value but fell within the natural background range at SNL for this analyte as discussed in Section 5.3.1.3 and Appendix I of the SNL/NM SWPPP

Table 2.1: Data Results for Parameters that have met Permit Requirements: October 2015 through October 2016

Outfall/ Monitoring Period	MSGP Sector	Ammonia	Total As	Dissolved Cd	COD	Total CN	Dissolved Pb	Total Mg[1]	Total Hg	Total Se	Dissolved Ag
SWSP 40/Oct2015	K	0.0596	<0.0017	<0.00011	10.1	<0.00167	<0.0005	0.365	<0.000067	<0.0015	<0.0001
SWSP 40/Jul2016	K	0.255	<0.0017	<0.00011	92.8	<0.00167	<0.0005	0.719	<0.000067	<0.0015	<0.0002
SWSP 40/Aug2016	K	0.137	<0.0017	<0.00011	87.3	<0.00167	<0.0005	0.527	<0.000067	<0.0015	<0.0002
SWSP 40/Sep2016	K	0.0668	<0.0017	<0.0003	99.3	<0.00167	<0.0005	0.443	<0.000067	<0.002	<0.0004
SWSP 40/Oct2016	K	0.338	<0.0017	<0.0003	93.6	<0.00167	<0.0005	1.19	<0.000067	<0.002	<0.0004
SWSP 49/Oct2015	K	0.0596	<0.0017	<0.00011	10.1	<0.00167	<0.0005	0.421	<0.000067	<0.002	<0.0004
SWSP 49/Jul2016	K	0.289	<0.002	<0.00011	85.8	<0.00167	<0.0005	0.729	<0.000067	<0.0015	<0.0004
SWSP 49/Aug2016	K	0.159	<0.0017	<0.00011	53.7	<0.00167	<0.0005	0.472	<0.000067	<0.0015	<0.0004
SWSP 49/Sep2016	K	NDSCH	NDSCH	NDSCH	NDSCH	NDSCH	NDSCH	NDSCH	NDSCH	NDSCH	NDSCH
SWSP 49/Oct2016	K	0.0858	<0.0017	<0.0003	58.7	<0.00167	<0.0005	0.493	<0.000067	<0.002	<0.0004
SWSP 52/Oct2015	K	0.203	<0.0017	<0.0003	11.8	<0.00167	<0.0005	1.63	<0.000067	<0.002	<0.0004
SWSP 52/Jul2016	K	0.421	0.00181	<0.00011	20.4	<0.00167	<0.0005	2.52	<0.000067	<0.0015	<0.0004
SWSP 52/Aug2016	K	0.34	0.00187	<0.00011	46.7	<0.00167	0.000516	2.5	<0.000067	<0.0015	<0.0002
SWSP 52/Sep2016	K	0.435	0.00403	<0.0003	72.3	<0.00167	0.000872	7.23	0.000091	<0.002	<0.0004
SWSP 52/Oct2016	K	0.195	<0.0017	<0.0003	106	<0.00167	<0.0005	1.73	<0.000067	<0.002	<0.0004
Benchmark		2.14	0.01	0.00298	120	0.0052	0.14	0.064	0.00077	0.005	0.011

All values in **mg/L**

SWSP Stormwater Sample Point (Outfall)

[1] Total Mg falls within natural background range as per SNL MSGP SWPPP, Appendix I

NDSCH: Not sufficient discharge

J Qualifier (above detection limit but below reporting limit). For MG, falls below the groundwater Range

3. July through October 2017 Monitoring Periods

Sample requirements have been fulfilled for the parameters listed and tabled (**Tables 3.1, 3.2**) for the respective Stormwater Sample Points (SWSP): that is, the average of sample values for four consecutive sample collections for these parameters at the respective SWSP is below the applicable SNL/NM benchmark value. Where laboratory results were non-detect, the detection limit value was entered as the concentration.

SWSP 32, Surface Discharge Site (Sector K).
Parameters that Meet MSGP Permit Requirements:
Ammonia
Cadmium
Cyanide
Lead
Mercury
Selenium
Silver

SWSP 48, Thermal Test Unit (Sector K).
Parameters that Meet MSGP Permit Requirements:
Arsenic
Cadmium
Cyanide
Lead
Mercury
Selenium
Silver

Table 3.1: SWSP 32, Surface Discharge Site: Parameters that have met Permit Requirements

Outfall/ Monitoring Period	MSGP Sector	NH3	Cd[2]	CN	Pb[2]	Hg[1]	Se[1]	Ag[2]
SWSP 32/Oct2015	K	0.868	<0.00011	<0.00167	<0.0005	<0.000067	<0.002	<0.0004
SWSP 32/Jul2016	K	NDSCH	NDSCH	NDSCH	NDSCH	NDSCH	NDSCH	NDSCH
SWSP 32/Aug2016	K	0.614	<0.00011	<0.00167	<0.0005	<0.000067	<0.002	<0.0002
SWSP 32/Sep2016	K	NDSCH	NDSCH	NDSCH	NDSCH	NDSCH	NDSCH	NDSCH
SWSP 32/Oct2016	K	0.0056	<0.0003	<0.00167	<0.0005	<0.000067	<0.002	<0.0004
SWSP 32/Jul2017	K	0.597	<0.0003	<0.00167	<0.0005	0.000115	<0.002	<0.0003
SWSP 32/ Aug2017	K	0.568	<0.0003	<0.00167	<0.0005	0.000174	0.00251	<0.0003
SWSP 32/Sep2017	K	NDSCH	NDSCH	NDSCH	NDSCH	NDSCH	NDSCH	NDSCH
SWSP 32/Oct 2017	K	NDSCH	NDSCH	NDSCH	NDSCH	NDSCH	NDSCH	NDSCH

Table 3.2: SWSP 48, Thermal Test Unit: Parameters that have met Permit Requirements

Outfall/ Monitoring Period	MSGP Sector	As[1]	Cd[2]	CN	Pb[2]	Hg[1]	Se[1]	Ag[2]
SWSP 48/Oct2015	K	0.00376	<0.00011	<0.00167	<0.0005	<0.000067	<0.002	0.000126
SWSP 48/Jul2016	K	NDSCH	NDSCH	NDSCH	NDSCH	NDSCH	NDSCH	NDSCH
SWSP 48/Aug2016	K	0.00527	0.000137	<0.00167	<0.0005	<0.000067	<0.0015	0.00104
SWSP 48/Sep2016	K	0.00185	NDSCH	NDSCH	NDSCH	<0.000067	<0.002	NDSCH
SWSP 48/ Oct2016	K	NDSCH	NDSCH	NDSCH	NDSCH	NDSCH	NDSCH	NDSCH
SWSP 48/Jul 2017	K	NDSCH	NDSCH	NDSCH	NDSCH	NDSCH	NDSCH	NDSCH
SWSP 48/Oct2016	K	NDSCH	<0.0003	<0.00167	<0.0005	NDSCH	NDSCH	0.000603
SWSP 48/Sep2017	K	0.00499	<0.0003	<0.00167	0.0006	<0.000067	<0.002	0.00091
SWSP 48/ Oct2017	K	NDSCH	NDSCH	NDSCH	NDSCH	NDSCH	NDSCH	NDSCH

Missing monitoring period dates indicate no discharge for that monitoring period.

SWSP Stormwater Sample Point (Outfall)

[1] Total metals

[2] Dissolved metal with hardness-dependent benchmark value. Parameter-specific benchmark is based on hardness value of 125 mg/L, determined from USGS sampling data (Appendix H of this SWPPP).

NDSCH: Not sufficient discharge

Non-detect, showing the laboratory detection limit value

J Qualifier (above detection limit but below reporting limit).

4. July through October 2018 Monitoring Periods

Sample requirements have been fulfilled for the parameters listed and tabled (**Table 4.1**) below for the respective Stormwater Sample Points (SWSP): that is, the average of sample values for four consecutive sample collections for these parameters at the respective SWSP is below the applicable SNL/NM benchmark value. Where laboratory results were non-detect, the detection limit value was entered as the concentration. Refer to Appendix I-2 for magnesium background levels.

SWSP 17, The Long Sled Track (Sector K)

All parameters at SWSP 17, as required under Sector K1, met permit requirements by the end of the 2018 monitoring year:

Ammonia
Arsenic
Cadmium
Chemical Oxygen Demand
Cyanide
Lead
Magnesium
Mercury
Selenium
Silver

SWSP 47, The Short Sled Track (Sector K)
Parameters that Meet MSGP Permit Requirements:
Arsenic
Magnesium
Mercury
Selenium

No exceedances have occurred at this sample location. The remaining parameters have not met permit requirements due to insufficient volume of stormwater resulting in less than 4 sample collections during this permit term to date.

SWSP 48, Thermal Test Unit (Sector K).
All parameters at SWSP 48, as required under Sector K1, met permit requirements by the end of the 2018 monitoring year:
Ammonia
Arsenic
Cadmium
Chemical Oxygen Demand
Cyanide
Lead
Magnesium
Mercury
Selenium
Silver

SWSP 51, Manzano Storage Bunkers (Sector K).
All parameters at SWSP 51, as required under Sector K1, met permit requirements by the end of the 2018 monitoring year:
Ammonia
Arsenic
Cadmium
Chemical Oxygen Demand
Cyanide
Lead
Magnesium
Mercury
Selenium
Silver

Table 4.1: Data Results for Parameters that have met Permit Requirements: Through to 2018

Outfall/ Monitoring Period	MSGP Sector	NH3	As[1]	Cd[2]	COD	CN	Pb[2]	Mg[1,3]	Hg[1]	Se[1]	Ag[2]
SWSP 17/Oct2016	K	0.423	<0.0017	<0.0003	68.5	<0.00167	0.000689	3.87	<0.000067	<0.002	<0.0004
SWSP 17/Sep2017	K	0.154	<0.002	<0.0003	63.9	<0.00167	0.000527	3.51	<0.000067	<0.002	<0.0004
SWSP 17/Jul2108	K	1.27	0.0071	<0.0003	145	<0.00167	0.000795	9.37	<0.000067	<0.002	<0.0004
SWSP 17/Sep2018	K	0.609	0.00795	<0.0003	140	<0.00167	0.00084	13.4	0.000178	<0.002	<0.0004
SWSP 17/Oct2018	K	0.105	0.00269	<0.0003	47.6	<0.00167	0.000521	10.9	<0.000067	<0.002	<0.0004
SWSP 47/Aug2016	K	NDSCH	0.00499	NDSCH	NDSCH	NDSCH	NDSCH	7.93	<0.000067	<0.0015	NDSCH
SWSP 47/Oct2016	K	0.389	0.00283	<0.0003	41.7	<0.00167	0.00204	4.6	0.000113	<0.002	<0.0004
SWSP 47/Sep2017	K	0.488	0.00354	<0.0003	54.8	NDSCH	0.000656	5.93	<0.000067	<0.002	<0.0003
SWSP 47/Jul2018	K	0.352	0.0022	<0.0003	66.7	<0.00167	<0.0005	2.52	<0.000067	<0.002	<0.0003
SWSP 48/Oct2015	K	0.33	0.00376	<0.00011	32.8	<0.00167	<0.0005	4.52	<0.000067	<0.002	0.000126
SWSP 48/Aug2016	K	NDSCH	0.00527	0.000137	75.4	<0.00167	<0.0005	4.52	<0.000067	<0.0015	0.00104
SWSP 48/Sep2016	K	NDSCH	0.00185	NDSCH	NDSCH	NDSCH	NDSCH	4.52	<0.000067	<0.002	NDSCH
SWSP 48/Oct2016	K	0.419	NDSCH	<0.0003	59.6	<0.00167	<0.0005	NDSCH	NDSCH	NDSCH	0.000603
SWSP 48/Sep2017	K	NDSCH	0.00499	<0.0003		<0.00167	0.0006	7.36	<0.000067	<0.002	0.00091
SWSP 48/Jul2018	K	0.992	MPR	MPR	136	MPR	MPR	6.71	MPR	MPR	MPR
SWSP 48/Sep2018	K	0.318	MPR	MPR	76.1	MPR	MPR	2.17	MPR	MPR	MPR
SWSP 51/ Oct2015	K	0.299	0.00317	0.000345	40.7	<0.00167	<0.0005	4.5	<0.000067	<0.002	<0.0003
SWSP 51/Aug2017	K	0.365	0.00484	<0.0003	32.5	<0.00167	<0.0005	6.45	<0.000067	<0.002	<0.0003
SWSP 51/Jul2018	K	0.669	0.00296	<0.0003	73.6	<0.00167	<0.0005	3.37	<0.000067	<0.002	<0.0003
SWSP 51/Aug2018	K	0.195	<0.002	<0.0003	56.3	<0.00167	<0.0005	0.85	<0.000067	<0.002	<0.0003
Benchmark	*K*	*2.14*	*0.01*	*0.00298*	*120*	*0.0052*	*0.14*	*0.064*[1]	*0.00077*	*0.005*	*0.011*

All values in **mg/L**

Missing monitoring period rows indicate no discharge for that monitoring period.

SWSP: Stormwater Sample Point (Outfall)

[1] Total metals

[2] Dissolved metal with hardness-dependent benchmark value. Parameter-specific benchmark is based on hardness value of 125 mg/L, determined from USGS sampling data (Appendix H of this SWPPP).

[3] Magnesium natural background range is 15.3 mg/L or below based on the Range for SNL (refer to Appendix I2 for details).

NDSCH	Not sufficient discharge
Non-detect, showing the laboratory detection limit value	
J Qualifier (above detection limit/ below reporting limit).	
MPR	Parameter previously met permit requirements

5. July through October 2019 Monitoring Periods

Sample requirements have been fulfilled for the parameters listed and tabled below (**Table 5.1**) for the respective Stormwater Sample Points (SWSP): that is, the average of sample values for four consecutive sample collections for these parameters at the respective SWSP is below the applicable SNL/NM benchmark value. Where laboratory results were non-detect, the detection limit value was entered as the concentration. Refer to Appendix I-2 for magnesium background levels.

For the 2019 monitoring year, one outfall, SWSP 47, The Short Sled Track, met permit requirements for all parameters required at that site. Four parameters met permit requirement in 2018 (see previous Section, this appendix). In 2019, sufficient stormwater runoff at the Short Sled Track resulted in analysis for the remaining 6 parameters. No exceedances have occurred at this site for the permit term. Permit requirements were not met previously due to insufficient runoff from this site. Minimal runoff at this location is primarily due to the flat terrain and permeable soils, as well as the isolated nature of storm events during this permit term.

SWSP 47, The Short Sled Track (Sector K)
The following parameters met MSGP Permit Requirements in 2019:
Ammonia
Cadmium
Chemical Oxygen Demand
Cyanide
Lead
Silver

Table 4.1: Data Results for Parameters that have met Permit Requirements: Through to 2019

Outfall/ Monitoring Period	MSGP Sector	NH3	As[1]	Cd[2]	COD	CN	Pb[2]	Mg[1,3]	Hg[1]	Se[1]	Ag[2]
SWSP 17/Oct2016	K	0.423	<0.0017	<0.0003	68.5	<0.00167	0.000689	3.87	<0.000067	<0.002	<0.0004
SWSP 17/Sep2017	K	0.154	<0.002	<0.0003	63.9	<0.00167	0.000527	3.51	<0.000067	<0.002	<0.0004
SWSP 17/Jul2108	K	1.27	0.0071	<0.0003	145	<0.00167	0.000795	9.37	<0.000067	<0.002	<0.0004
SWSP 17/Sep2018	K	0.609	0.00795	<0.0003	140	<0.00167	0.00084	13.4	0.000178	<0.002	<0.0004
SWSP 17/Oct2018	K	0.105	0.00269	<0.0003	47.6	<0.00167	0.000521	10.9	<0.000067	<0.002	<0.0004
SWSP 47/Aug2016	K	NDSCH	0.00499	NDSCH	NDSCH	NDSCH	NDSCH	7.93	<0.000067	<0.0015	NDSCH
SWSP 47/Oct2016	K	0.389	0.00283	<0.0003	41.7	<0.00167	0.00204	4.6	0.000113	<0.002	<0.0004
SWSP 47/Sep2017	K	0.488	0.00354	<0.0003	54.8	NDSCH	0.000656	5.93	<0.000067	<0.002	<0.0003
SWSP 47/Jul2018	K	0.352	0.0022	<0.0003	66.7	<0.00167	<0.0005	2.52	<0.000067	<0.002	<0.0003
SWSP 48/Oct2015	K	0.33	0.00376	<0.00011	32.8	<0.00167	<0.0005	4.52	<0.000067	<0.002	0.000126
SWSP 48/Aug2016	K	NDSCH	0.00527	0.000137	75.4	<0.00167	<0.0005	4.52	<0.000067	<0.0015	0.00104
SWSP 48/Sep2016	K	NDSCH	0.00185	NDSCH	NDSCH	NDSCH	NDSCH	4.52	<0.000067	<0.002	NDSCH
SWSP 48/Oct2016	K	0.419	NDSCH	<0.0003	59.6	<0.00167	<0.0005	NDSCH	NDSCH	NDSCH	0.000603
SWSP 48/Sep2017	K	NDSCH	0.00499	<0.0003	NDSCH	<0.00167	0.0006	7.36	<0.000067	<0.002	0.00091
SWSP 48/Jul2018	K	0.992	MPR	MPR	136	MPR	MPR	6.71	MPR	MPR	MPR
SWSP 48/Sep2018	K	0.318	MPR	MPR	76.1	MPR	MPR	2.17	MPR	MPR	MPR
SWSP 51/ Oct2015	K	0.299	0.00317	0.000345	40.7	<0.00167	<0.0005	4.5	<0.000067	<0.002	<0.0003
SWSP 51/Aug2017	K	0.365	0.00484	<0.0003	32.5	<0.00167	<0.0005	6.45	<0.000067	<0.002	<0.0003
SWSP 51/Jul2018	K	0.669	0.00296	<0.0003	73.6	<0.00167	<0.0005	3.37	<0.000067	<0.002	<0.0003
SWSP 51/Aug2018	K	0.195	<0.002	<0.0003	56.3	<0.00167	<0.0005	0.85	<0.000067	<0.002	<0.0003
SWSP 47/Jul2019	K	1.02	MPR	0.00224	34.4	<0.00167	0.0829	MPR	MPR	MPR	0.000962
SWSP47/ Oct2019	K	0.851	MPR	<0.0003	94.8	<0.00167	<0.0005	MPR	MPR	MPR	<0.0003
Benchmark	*K*	*2.14*	*0.01*	*0.00298*	*120*	*0.0052*	*0.14*	*0.064*[1]	*0.00077*	*0.005*	*0.011*

All values in **mg/L**
Missing monitoring period rows indicate no discharge for that monitoring period.
SWSP: Stormwater Sample Point (Outfall)
[1] Total metals
[2] Dissolved metal with hardness-dependent benchmark value. Parameter-specific benchmark is based on hardness value of 125 mg/L, determined from USGS sampling data (Appendix H of this SWPPP).
[3] Magnesium natural background range is 15.3 mg/L or below based on the Range for SNL (refer to Appendix I2 for details).

NDSCH Not sufficient discharge
Non-detect, showing the laboratory detection limit value
J Qualifier (above detection limit/ below reporting limit).
MPR Parameter previously met permit requirements

Appendix F: Non-stormwater Discharge Documentation

No.	Description
F-1	Non-Stormwater Discharge Assessment and Certification for Sandia National Laboratories Albuquerque, New Mexico

Appendix F-1

NON-STORM WATER DISCHARGE

ASSESSMENT AND CERTIFICATION

for

Sandia National Laboratories

Albuquerque, New Mexico

Supplement to

NPDES Storm Water Permit Application

PERM 92-01

Sandia National Laboratories

Managed and Operated by Sandia Corporation
a Lockheed Martin Company

P.O. Box 5800
Albuquerque, New Mexico 87185-0361

M. Lynn Jones
Vice President/Laboratories Services Division

Telephone: (505) 845-8368
FAX: (505) 844-8617
E-Mail Address: mjones@sandia.gov

OCT - ? ''

Mr. George K. Laskar
Assistant Area Manager
Department of Energy
Kirkland Area Office
P. O. Box 5400
Albuquerque, NM 87185-5400

Dear Mr. Laskar:

Per our appraisal agreement, enclosed is a copy of the report on the Storm Drain System Cross Connects Project. This completes the fourth quarter Milestone Number III of the FY 1995 DOE/SNL Appraisal Agreement.

This report summarizes the Storm Drain System Cross Connects Project which was the investigation of the storm drain piping at Sandia to identify and correct any illicit cross connections. This effort brings Sandia's storm water drainage system into compliance with the Clean Water Act codified as 40 CFR 122 and allows us to certify to the EPA, that to the best of our ability all illicit connections to the storm sewer system have been located and corrected.

Also enclosed is the "Non-Storm Water Discharge Assessment and Certification" to be signed by DOE and transmitted to the EPA. This certification will complete Sandia's application for an NPDES Storm Water Discharge Permit, document number PERM 92-01. Please sign the certification and transmit it to EPA Region 6.

Should you have any questions or comments concerning this report, or require additional information, please contact Charles Fink of the Water Quality Department, 7574, Sandia National Laboratories New Mexico at 848-0977.

Sincerely,

MLJones

This is a supplement to the original NPDES Storm Water Permit application for Sandia National Laboratories, Albuquerque, New Mexico, PERM 92-01, submitted in October, 1992. Information contained in this document was compiled from the final report on Sandia's Storm Drain System Cross Connect Project. The full report will be made available to EPA upon request.

V. NON-STORM WATER DISCHARGE ASSESSMENT AND CERTIFICATION

CERTIFICATION

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

A. Name & Official Title Michael J. Zamorski, DOE Acting Area Manager	B. Area Code and Telephone No. (505)845-6617
C. Signature M Zamorski	D. Date Signed 10/12/95
E. Name & Official Title M. Lynn Jones, SNL Vice President	F. Area Code and Telephone No. (505)845-8368
G. Signature M L Jones	H. Date Signed 10/2/95

Department of Energy
Albuquerque Operations Office
Kirtland Area Office
P. O. Box 5400
Albuquerque, New Mexico 87185-5400

OCT 12 1995

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. Jack Fergusen, Branch Chief
U. S. Environmental Protection Agency
Region VI (6W-P), NPDES Permits Branch
1445 Ross Avenue, Suite 1200
Dallas, Texas 75202

Dear Mr. Fergusen:

Our letters dated September 30, 1992 and May 27, 1993 provided the original application and updated analytical data for the individual National Pollutant Discharge Elimination System (NPDES) permit application to discharge storm water associated with industrial activity from our facility, Sandia National Laboratories, New Mexico (SNL/NM). The permit application included a corrective action plan for identifying and eliminating non-storm water discharges, which had been discussed with EPA personnel in a preceding meeting. Because we were aware of these cross connections in the stormwater system, we did not certify in Section V of the Form 2F that there were no non-storm water discharges in the storm water outfalls. Our letter of July 7, 1994 provided you with a status report on the corrective actions being taken at SNL/NM with regard to the cross connections.

The purpose of this letter is to report that SNL/NM has completed the project and eliminated all non-storm water discharges to the storm sewer system at the SNL/NM facility. This effort brings the SNL/NM facility into compliance with 40 CFR 122 and allows us to certify that to the best of our knowledge all illicit connections to the storm sewer system have been located and corrected. We have enclosed the "Non-Storm Water Discharge Assessment and Certification" and a summary of the actions taken at the SNL/NM facility to complete this corrective action plan as we had outlined it in previous documents to your office.

The enclosed assessment and certification document, PERM 92-01, should supplement and complete the DOE/SNL/NM application for an NPDES Storm Water Discharge Permit, submitted originally on September 30, 1992.

APPENDIX B

BUILDING SUMMARY REPORTS

Bldg. No.	Cross-Connect	Description of Cross-Connection	Action Taken on Cross-Connection	Evaluation of Action Taken on Cross-Connection
605	NO	NA	NA	NA
800	YES	Drinking fountain at port 800 M5 is assumed cross-connected.	Remove drinking fountain and cap the line.	Cross connects eliminated. CA410
800a	No	NA	NA	NA
801	NO	NA	NA	NA
802	YES	Basement power pressure pumps discharge to area way storm water pumps. Exterior/Site sanitary sewer and storm drain infiltration was observed.	An MSR was submitted and the cross connects were removed. Also, the sanitary sewer system was repaired with approximately 30 LF of sanitary sewer line.	Cross connects eliminated MSR #522605 10/16/92 MSR #522003 10/16/92 MSR #522891 10/29/92 TW #0146A 2/8/94
803	NO	NA	NA	NA
804	YES	Four floor drains in library vault.	Four floor drains in library vault filled with concrete. Rainwater leader routed above ceiling to ground.	Cross connects eliminated TW-0146A 8/10/94 AW-6190 MSR #S21834 10/14/92
805	YES	Roof mounted cooling towers discharge into the roof drain which is connected to the storm drain system.	Overflow drains re-routed to sanitary sewer manhole. Work completed.	Cross connects eliminated.
806	YES	Roof mounted cooling towers discharge into the roof drain which is connected to the storm drain system.	Cooling tower drain was rerouted along wall down to sanitary sewer manhole.	Cross connects eliminated. MSR S12343 6/10/92
807	YES	Roof mounted cooling towers discharge into the roof drain which is connected to the storm drain system.	Cooling tower overflow and drains were rerouted to sanitary sewer. However, two of the cooling tower drains were not connected to the sanitary sewer system. Two remaining drains rerouted on second attempt.	Cross connects eliminated TW-O146A 11/21/94 JA 184
808	YES	Floor drains in the shop area and the north and south mezzanine level equipment rooms are connected to the storm drain system. A fume hood sink drain and the steam pit sump pump are also connected to the storm drain system.	Due to confined space BMH/VER problems, routing of 8" storm drain line to the "H" St. sanitary sewer occurred out-side of bldg.	Cross connects eliminated. JA 180 11/14/94 MSR S22459 10/22/92 AW 7604 TW 0146A 3/1/94 AW-3447 10/14/92
809	YES	Steam condensate vent overflowing to roof drains. Power pressure pump is faulty.	Power pressure pump repaired (see MSR). Vent overflow was eliminated.	Cross connects eliminated. MSR S21833
814	YES	1. Roof mounted chiller unit. 2. Mechanical room equipment drain.	Building demolished and removed. Drain piping removed or abandoned in place.	NA
818	NO	NA	NA	NA
819	YES	Air washers on roof drain to gutters.	Work completed. Routed air washers to sanitary sewer on south side of bldg.	Cross connects eliminated. JA 151 8/15/91 MSR S22049 10/16/92
820	NO	NA	NA	NA
821	YES	Roof mounted cooling tower draining to roof storm water grate.	Cooling tower drain & overflow routed to sanitary sewer system.	Cross connects eliminated. CA410
822	NO	NA	NA	NA

APPENDIX B

BUILDING SUMMARY REPORTS

Bldg. No.	Cross-Connect	Description of Cross-Connection	Action Taken on Cross-Connection	Evaluation of Action Taken on Cross-Connection
841	YES	The drain lines which contain glycol from the three fan coil chillers and waters from the mezzanine drain are discharged into the storm drain system. There is potential for overflow from the sanitary sewer into the storm drain manhole through the clean out access in the storm manhole located outside the NE corner of Bldg. 841.	CONSTRUCTION COMPLETED	Cross connects eliminated. MSR #S7004 4/16/92 JA64 10/8/93 JA130 6/27/94
842	NO	NA	NA	NA
844	N/A	Building could not be accessed due to safety concerns.	Building is scheduled for decontamination and demolition.	NA
845	YES	Equip. and process drain piping protrudes through walls and discharges onto storm drain inlets.	Building demolished and removed. Drain piping removed or abandoned in place.	NA
846	YES	Equip. and process drain piping protrudes through walls and discharges onto storm drain inlets.	Building demolished and removed. Drain piping removed or abandoned in place.	NA
847	NO	NA	Building demolished and removed. Drain piping removed or abandoned in place.	NA
849	NO	NA	NA	NA
850	YES	Cooling tower reservoir for bldg. 890 overflow draining to ground.	CONSTRUCTION COMPLETE. Sanitary sewer constructed to pick up the cooling tower reservoir overflow.	Cross connects eliminated. AW5585 7/29/94 JA141
851	YES	Pressure drain to inlet splashes material pumped. Material then washes down to inlet.	Piping extended and connected directly to SAS.	Cross connects eliminated. AW6190 TW-0146A
852	YES	Two roof-mounted air washers with drain lines to roof drain gutter and then goes to storm drains.	Airwasher drains routed to SAS.	Cross connects eliminated. JA03 1/15/93 TW 0146A
853	NO	NA	NA	NA
856	NO	NA	NA	NA
857	NO	NA	NA	NA
857 ANNEX	NO	NA	NA	NA
858	YES	Cooling tower on north end of bldg discharges to ground. There is an open hub drain in exterior equipment enclosure serving various drains.	Cooling tower routed to SAS. Drain piping within the exterior equipment area routed to the sanitary sewer system.	Cross connects eliminated. JA07 2/1/93 TW 0146B

APPENDIX B

BUILDING SUMMARY REPORTS

Bldg. No.	Cross-Connect	Description of Cross-Connection	Action Taken on Cross-Connection	Evaluation of Action Taken on Cross-Connection
884	YES	Overflow /drain from tank in SE mechanical room drains to ground, spilling into wall space (furring wall). Also cooling tower was draining to the ground.	Tank removed . Room remodeled to office and light lab. Cooling tower drains routed to sanitary sewer.	Cross connects eliminated AW 5586 7/11/94 JA 140
885	NO	NA	NA	NA
887	YES	Sinks and floor drains within the south portion of the bldg. This includes mech. rooms shops, paint room, & carpentry shop.	SAS removed from storm drain system and routed to the SAS.	Cross connects eliminated. MSR S2128 1/29/92
888	YES	Two roof mounted air washers connected to roof drains.	A 4" diameter sanitary sewer built to serve air washer drains.	Cross connects eliminated AW 6184 TW 0146A 6/8/94
890	NO	NA	NA	NA
891	NO	NA	NA	NA
892	YES	The entire building ,excluding the original restrooms, is cross-connected. The restroom in the weapons training center drains to the storm drain system.	Cross connects were eliminated. AW 3385 2/4/94;JA 95;TW 0146A; MSR N7006 6/10/92;JA 91 2/10/94	Cross connects eliminated. Extensive construction required to remove cross connects.
893	NO	NA	NA	NA
894	YES	Two roof mounted chillers connected to roof storm water drains.	Chiller drains were rerouted to the sanitary sewer system.	Cross connects eliminated JA 03 1/15/93
897	NO	NA	NA	NA
TA II	Yes	Bldgs. 903, 904, 907, 913 and 914 cross connected to storm drain system.	Storm drain lines connected to sanitary sewer.	Cross connects eliminated
938	NO	NA	NA	NA
954	NO	NA	NA	NA
956	NO	NA	NA	NA
957 957A 957B	NO	NA	NA	NA
958	NO	NA	NA	NA
959	NO	NA	NA	NA
960	NO	NA	NA	NA
961	YES	Drain from eyewash basin exiting through exterior south wall and draining onto a pan placed under the outlet.	Emergency eyewash basin was removed. Roof chiller drains routed to the sanitary sewer.	Cross connects eliminated JA 03 1/8/93 TW 0146A
962	YES	The cooling tower reservoir and drain on the north side of bldg. was draining directly to the drop inlet.	Work completed. Drains routed to sanitary sewer.	Cross connects eliminated JA 03 1/8/93 TW 0146A
963	NO	NA	NA	NA
965	NO	NA	NA	NA

Appendix G: Stormwater Outfall Assessment Forms

No.	Description
G-1	Stormwater Outfall Assessment Forms

Note for electronic copies of this SWPPP and Appendices: Due to the large file size, Appendix G, Stormwater Outfall Assessment Forms, will be downloaded as a separate electronic pdf file.

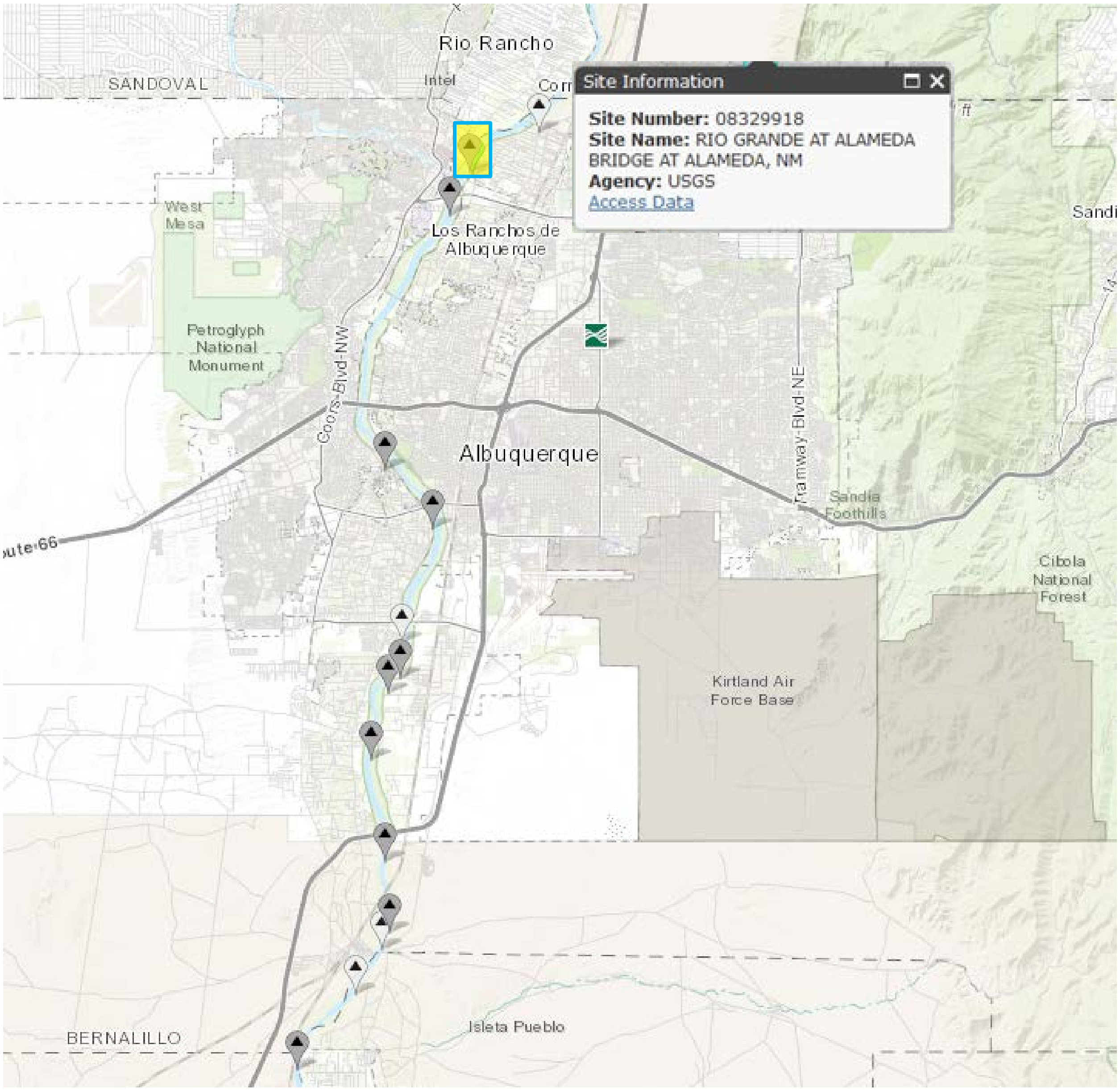
Appendix H: Hardness Data

No.	Description
H-1	USGS Hardness Data

Appendix H-1

Middle Rio Grande USGS Stations

February 7, 2020



Key:

USGP Station: Hardness data within the last 10 years

USGP Station: No hardness data within the last 10 years

Water Quality Samples for the Nation

To view additional data-quality attributes, output the results using these options: one result per row, expanded attributes.
Additional precautions are here.

USGS 08329918 RIO GRANDE AT ALAMEDA BRIDGE AT ALAMEDA, NM

Available data for this site Water-Quality: Field/Lab samples GO

Bernalillo County, New Mexico
Hydrologic Unit Code 13020203
Latitude 35°11'51.8", Longitude 106°38'34" NAD83
Drainage area 17,129 square miles
Contributing drainage area 14,089 square miles
Gage datum 4,998 feet above NAVD88

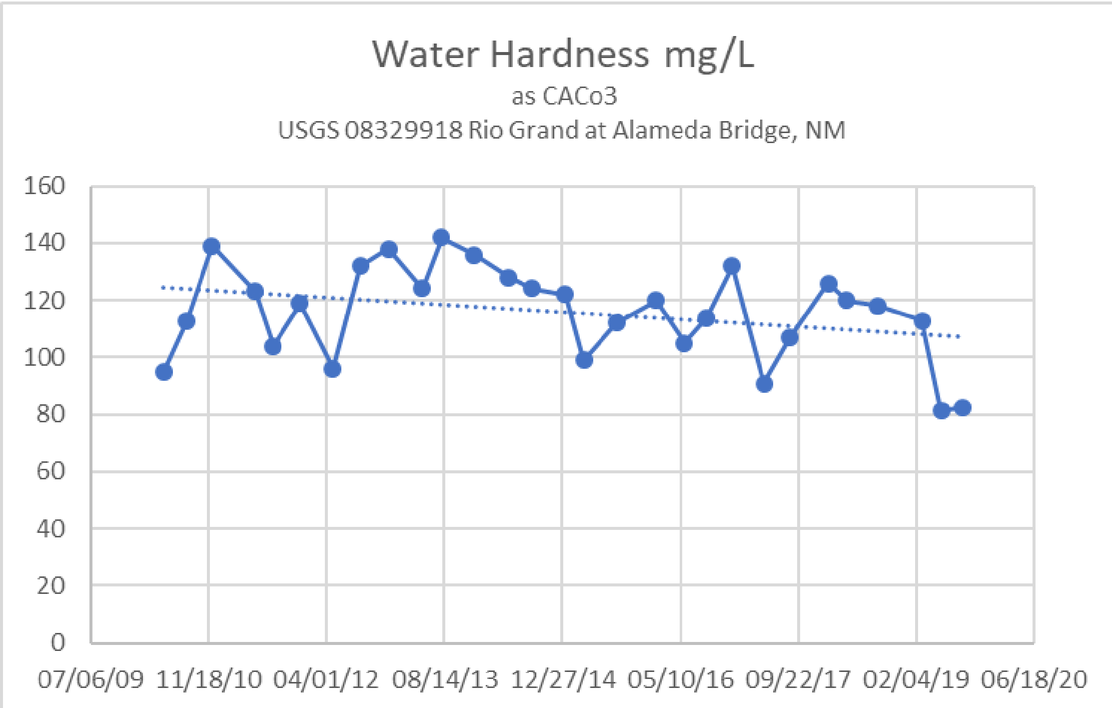
Output formats

- Parameter Group Period of Record table
- Inventory of available water-quality data for printing
- Inventory of water-quality data with retrieval
- Tab-separated data, one result per row
- Tab-separated data one sample per row with remark codes combined with values
- Tab-separated data one sample per row with tab-delimiter for remark codes
- Reselect output format

Sample Datetime	Time datum	Time datum reliability code	Sample Medium Code	Agency Collecting Sample, Code	Hard-ness, water, mg/L as CaCO3 (00900)
2010-05-11 11:55	MDT	K	WS	USGS-WRD	94.9
2010-08-17 12:45	MDT	K	WS	USGS-WRD	113
2010-12-03 10:20	MST	K	WS	USGS-WRD	139
2011-06-03 10:22	MDT	K	WS	USGS-WRD	123
2011-08-18 10:15	MDT	K	WS	USGS-WRD	104
2011-12-09 09:45	MST	K	WS	USGS	119
2012-04-26 09:40	MDT	K	WS	USGS	96.1
2012-08-23 09:40	MDT	K	WS	USGS	132
2012-12-20 10:00	MST	K	WS	USGS	138
2013-05-10 10:00	MDT	K	WS	USGS-WRD	124
2013-08-02 10:00	MDT	K	WS	USGS	142
2013-12-18 10:30	MST	K	WS	USGS-WRD	136
2014-05-13 12:45	MDT	K	WS	USGS-WRD	128
2014-08-22 10:00	MDT	K	WS	USGS-WRD	124
2015-01-07 10:45	MST	K	WS	USGS-WRD	122
2015-03-28 14:30	MDT	K	WS	USGS-WRD	99.0
2015-08-13 11:30	MDT	K	WS	USGS-WRD	112
2016-01-27 10:45	MST	K	WS	USGS-WRD	120
2016-05-26 12:30	MDT	K	WS	USGS	105
2016-08-30 13:15	MDT	K	WS	USGS-WRD	114
2016-12-14 11:30	MST	K	WS	USGS-WRD	132
2017-04-28 11:00	MDT	K	WS	USGS-WRD	90.8
2017-08-18 11:00	MDT	K	WS	USGSNMWC	107
2018-01-25 09:30	MST	K	WS	USGS-WRD	126
2018-04-13 10:00	MDT	K	WS	USGSNMWC	120
2018-08-22 11:00	MDT	K	WS	USGS-WRD	118
2019-02-28 10:00	MST	K	WS	USGS-WRD	113
2019-05-22 10:30	MDT	K	WS	USGS-WRD	81.3
2019-08-21 10:30	MDT	K	WS	USGS-WRD	82.5

RIO GRANDE HARDNESS DATA

2009 - 2019



Appendix I: Background Concentrations

No.	Description
I-1	Background Levels of Constituents in Stormwater Runoff
I-2	Magnesium as a Background Metal in Stormwater Runoff

Appendix I-1

NATURAL BACKGROUND LEVELS OF CONSTITUENTS IN STORMWATER RUNOFF AT SANDIA NATIONAL LABORATORIES

Revised June 2018

I. Introduction

Historic stormwater sampling results for certain metals at Sandia National Laboratories, New Mexico (SNL/NM), have consistently exceeded Environmental Protection Agency (EPA) Multi-Sector General Permit (MSGP) stormwater benchmark values, or have consistently occurred in high enough concentrations to have the potential to exceed these benchmark values, at industrial locations where these metals have not been identified as potential pollutant sources. Metals of concern discussed in this report consist of aluminum (Al), arsenic (As), copper (Cu), iron (Fe), magnesium (Mg), and zinc (Zn).

Site specific, basin-wide geologic, and Stormwater Program investigations[1,2, 3, 4, 5, 6, 7, 8] indicate that Al, As, Cu, Fe, Mg, and Zn are widely distributed throughout the natural soils and sediments at SNL/NM. The sediments are derived from local bedrock within the watershed, which is comprised of a highly diverse assemblage of rock types with varied chemical compositions. Conversely, investigations discussed below have resulted in the absence of anthropogenic sources for these metals at SNL/NM.

II. Geology, Soils, and Climate

Paleozoic and Mesozoic sedimentary rocks located in the upper reaches of the watershed are comprised largely of dolomite, which is high in magnesium, and contains the iron rich mineral ankerite. Aluminum and zinc are associated with the evaporative salts and sulfates in the sedimentary rock, and may also be derived from volcanic debris that was deposited from the Mt. Taylor eruptions in recent (1-3 million years ago) geologic history. Arsenic has been shown to be widespread as a natural background metal in New Mexico, and is also associated with volcanic sources.[6] Some sandstones and mudstones underlying Albuquerque contain high levels of As.[9] Precambrian rocks that underlie the Paleozoic and Mesozoic rocks comprise the majority of bedrock within the watershed. Precambrian rocks are comprised of quartzite (contains Al, Fe), granite (contains Al, Fe, Mg), rhyolite (contains Al), meta-rhyolite (contains Al), greenstone (contains Fe, Mg), schist (contains Al, Fe, Mg), chlorite schist (contains Fe, Mg), gneiss (contains Fe, Mg), and diabase (Fe, Mg). Numerous small deposits associated with the igneous and metamorphic history of bedrock contain trace metals, including barite (contains Cu) and other copper bearing minerals such as pyrite, chalcopyrite and malachite.

The regional climate is arid/semi-arid and rainfall at SNL/NM occurs primarily during high intensity thunderstorms. These storm events typically discharge sediment-laden runoff to ephemeral streams that only flow for a short period of time. It is not uncommon to observe elevated levels of suspended and total sediment loads in stormwater samples collected at SNL/NM. The local geology, along with the sediment transport common to the arid/semi-arid region, support the argument that soils are a natural source of these metals in stormwater samples.

III. Determining Background Constituents in Stormwater Runoff

In contrast to the substantial evidence for natural sources of Al, As, Cu, Fe, Mg, and Zn, there is a lack of evidence for anthropogenic sources at SNL/NM. The 1999 Site Wide Environmental Impact Statement[1] (SWEIS) for SNL cites environmental investigations and descriptions of industrial activities that support the statement that Al, As, Cu, Fe, Mg, and Zn are not related to industrial activities in the past or present. In a more recent 2006 SNL/NM report "Final Supplement Analysis for the Final Site-Wide Environmental Impact Statement"10 which follows-up on activities at SNL since the 1999 SWEIS in anticipation of a revised SWEIS, no additional industrial activities have commenced at SNL/NM that would contribute these metals as pollutant sources.

Quantitative correlation of soil composition to metals concentrations in stormwater runoff is complicated by myriad variables and challenges. A dataset that would allow for the development of a quantitative correlation does not exist. Variables that should be considered when accumulating and analyzing significant baseline data from stormwater in an arid/ semi-arid environment include, but are not limited to; sediment distribution, mineral distribution within sediments, amount of carbonates present, and stormwater/sediment contact time. Runoff coefficients at SNL/NM are in the low range typical of arid/semi-arid climates. Precipitation does not always result in sufficient runoff for sample collection and analysis and runoff from a single storm event can vary significantly from one outfall to another at SNL/NM.

Historical stormwater data at SNL/NM is associated with outfalls at industrial sites or locations near enough to industrial activities to have the potential to include industrial discharge. Stormwater sample collection points were established in 2017 at locations upgradient of industrial activities with the intent of building a viable stormwater database from which quantitative background concentrations could then be established. Until significant sample-sets of background stormwater data are established for each of the metals discussed in this report, the groundwater Range presented in Table 2 can help to determine higher than historical values that would trigger further consideration and investigation of potential industrial sources rather than natural sources documented in this report. Comparing groundwater data to stormwater data is less than ideal for many reasons. For example, the effects of stormwater/sediment contact time would not be expected to correlate well with groundwater/sediment contact time.

IV. Tables

Background concentrations of Al, As, Cu, Fe, Mg, and Zn in soil and groundwater at SNL/NM are presented in Tables 1 and 2. The data shows a pattern of elevated concentrations of these metals in soils and groundwater. Results for magnesium consistently exceed EPA Benchmark values in numerous data bases for groundwater and surface water[1, 2, 3]. Background soil and groundwater concentrations approved by the New Mexico Environment Department (NMED), (Dinwiddie letter, 1997) were established from the comprehensive Site-wide Hydrogeological Study conducted across SNL/NM in 1994-1995[7,8] and data reported in the are presented in Table 3.

Table 1: Background Concentrations in Soil at SNL/NM

Soil[1] (mg/kg)				
Analyte	**N**	**Range**	**Mean**	**Std. Dev**
Aluminum	1110	775-100,000	8,977	4410
Arsenic	716	2.0 -700	13.4	4.08
Copper	1087	2.75-200	10.3	8.8
Iron	1110	0.1-40,000	11,391	4726
Magnesium	1110	200-11,000	3,327	1420
Zinc	1110	10-300	37.6	5.0

[1] Chemical Analyses of Soil Samples Collected from the Sandia National Laboratories, NM 1993-1995; Mark Miller et. al, 2006. SAND2006-1468.

Table 2: Background Concentrations in Groundwater at SNL/NM

Groundwater[2] (mg/L)				
Analyte	**N**	**Range**	**Mean**	**Std. Dev**
Aluminum	41	0.005-0.25	0.036	0.056
Arsenic	41	0.001 – 0.0077	0.0023	0.0014
Copper	41	0.00035-0.0057	0.0018	0.0016
Iron	41	0.199-0.95	0.238	0.194
Magnesium	46	2.3-15.3	10.63	2.2
Zinc	41	0.0026-0.045	0.012	0.009

Table 3: NMED Approved Background Concentrations in Groundwater at SNL/NM

Approved Groundwater Concentrations[3] (Mg/L)					
Aluminum	**Arsenic**	**Copper**	**Iron**	**Magnesium**	**Zinc**
N/A	.014	<.050	N/A	N/A	.26 (Basin) .47 (Fault Zone)

[2] Groundwater data taken from EDMS database; data is the average of 3 background (upgradient) wells completed in the Santa Fe group aquifer, for the period 2000-2014.

[3] Background soil and groundwater concentrations approved by NMED (Dinwiddie letter, 1997) based primarily on data from *Background Concentrations of Constituents of Concern to the Sandia National Laboratories/New Mexico Environmental Restoration Project and Kirtland Air Force Base Installation Program March 1996*

V. References

[1] Final Site-Wide Environmental Impact Statement, Sandia National Laboratories (SWEIS) (DOE/EIS- 0281), 1999

[2] Background Ground-Water Quality at the Kirtland Air Force Base Area, Bernalillo County, New Mexico, AIP/DOE Oversight Program, January 1995.

[3] Water Quality Samples for New Mexico; USGS Surface Water Discharge Station 08330505 Monitoring Data; Tijeras Arroyo Above Four Hills Bridge, Abq., NM, 1988-1992.

[4] Geochemical Characterization of Groundwater Flow in the Santa Fe Group Aquifer System, Middle Rio Grande Basin, New Mexico, US Geological Survey Water-Resources Investigations Report 03-4131, 2004.

[5] Chemical Analyses of Soil Samples Collected from the Sandia National Laboratories, New Mexico Environs, 1993–2005, Sandia National Laboratories, Sand2006-1468, March 2006.

[6] "Arsenic Slightly Exceeds Benchmark at the Surface Discharge Site (SWMU 502)." Stormwater Program, Sandia National Laboratories, New Mexico, November 2017

[7] Approved Background Concentrations, Sandia Laboratories/Kirtland Air Force Base, New Mexico Environmental Restoration Project, October, 1994.

[8] New Mexico Environment Department, Letter from Robert S. Dinwiddie (NMED) to Michael J. Zamorski (DOE); *Request for Supplemental Information: background Concentrations Report, SNL/KAFB*. September 24, 1997.

[9] Arsenic in New Mexico's Waters. Article by the New Mexico Bureau of Geology and Mineral Resources in New Mexico Earth Matters, Summer 2002

[10] Sandia National Laboratories/New Mexico; Final Supplement Analysis for the Final Site-Wide Environmental Impact Statement for Sandia National Laboratories/New Mexico, August 2006

Appendix I-2

Magnesium as a Background Metal in Stormwater Runoff at Sandia National Laboratories, New Mexico

1. Introduction

Magnesium (Mg) is one of 6 metals presented in Appendix I of the MSGP SWPPP for Sandia National Laboratories, New Mexico (SNL/NM): *Natural Background Levels of Constituents in Stormwater Runoff at Sandia National Laboratories.* As presented in Appendix I, all 6 metals are found in local bedrock and sediments. Magnesium in particular occurs in stormwater runoff at consistently high levels but is also consistently within the range for groundwater values from monitoring wells at SNL/NM (Table 1). There were no known anthropogenic sources for magnesium at SNL/NM previous to or at the time of sample collections for stormwater data reviewed in this report.

2. Magnesium in Stormwater at MSGP Sites Compared to Other Water Quality Samples

Table 1 shows comparable levels of magnesium in stormwater, other surface water, groundwater and drinking water from the local area around SNL/NM.

Magnesium levels in stormwater samples collected under the 2015 Multi-Sector General Permit (MSGP) from October 2015 (first monitoring period under that permit) through October 2018, show 95% of magnesium analytical results are within or below the range for groundwater background well (upgradient) results, with only 3 MSGP sample values falling above the groundwater background range. The mean for magnesium at MSGP sites fell below all other mean and median values looked at for this report (Tables 1 and Figure 1), including background groundwater, background stormwater, Tijeras fault zone, Tijeras Arroyo, and if extrapolated from the low and high value for near-by drinking water wells, also below local drinking water levels. Sampling and analysis limitations and variables are many for the stormwater data, as they are for most stormwater samples in arid environments. But even with limitations in mind, along with the absence of known anthropogenic sources, the consistency of Mg results across diverse sample sets, is a strong indicator of natural sources versus a specific industrial source at a MSGP permitted site at SNL/NM.

Table 1. Magnesium Levels in and around Sandia National Laboratories

Magnesium Concentrations (mg/L) in Stormwater and Groundwater					
	N	**Min**	**Max**	**Mean**	**Std Dev**
MSGP[1]	57	0.37	40.20	3.21	6.68
MSGP Less 2 highest[2]	55	0.37	14.70	2.87	4.10
SW Background[3]	9	2.00	9.96	5.16	3.05
GW Background [4]	46	2.30	15.30	10.63	2.20
Tijeras Fault Zone[5]	na	na	na	36.00	na
Tijeras Arroyo[5]	na	na	na	24.50	na
COA Drinking Water[6]	4	5.30	6.10	5.69[7]	na

[1] Stormwater data from 2015 MSGP monitoring at SNL/NM (October 2015 through October 2018)

[2] Two highest values removed from the MSGP samples

[3] Data from stormwater background (upgradient) sample locations (October 2015 through October 2018)

[4] Groundwater data from EDMS database: data is the average of 3 background (upgradient) wells completed in the Santa Fe group aquifer (2000-2014)

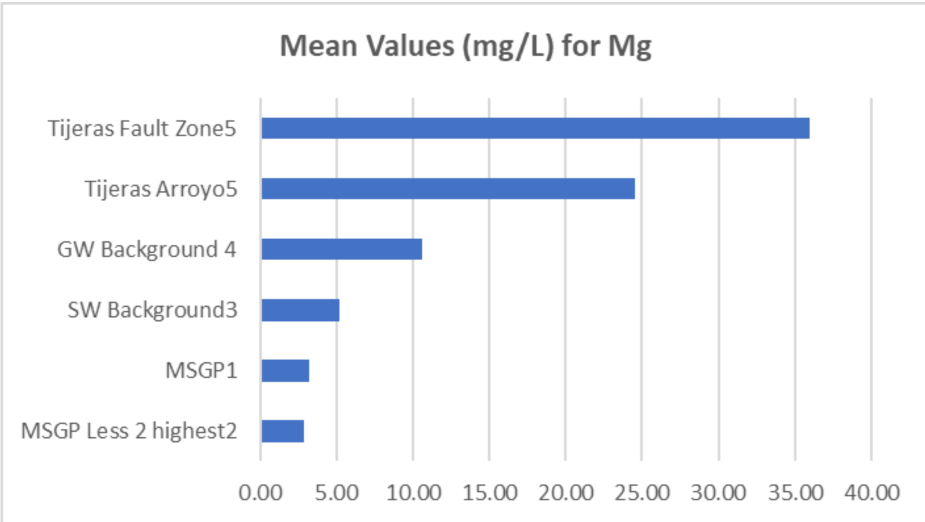
[5] Median values for Magnesium by hydrochemical zone for the Middle Rio Grande Basin, New Mexico, Table 8 (Plummer 2004)

[6] City of Albuquerque Drinking Water 2017 quarterly sample results from the ABCWUA Distribution Zone

[7] Mean value calculated on the low and high values available

na = Not available

Figure 1. Mean Values for Magnesium in Local Water Quality Samples



The determination of a metal as "background" should not eliminate a trigger for higher-than-average concentrations that may indicate a new industrial source. There should be a value, based on the best available data, that qualifies as a benchmark where further action would be required; i.e.; determination of whether a corrective condition exists or not. For magnesium, if an average of four values exceeds the range of groundwater values, which is 15.3 mg/L, then further investigation should follow and if a corrective condition is identified on a MSGP permitted site, a corrective action would be documented as per the MSGP.

Additional local stormwater data would be needed to establish a viable range of concentrations that would represent background levels of magnesium in stormwater at SNL/NM. For soils, there is no maximum regulatory level for magnesium but comparisons to soil data (e.g.: based on ratios of concentrations to mean) in addition to data on suspended solids in stormwater, would be useful in determining source - especially in an environment where overland flow is the primary conveyance for stormwater runoff and where sediment transport is the biggest challenge to water quality. Because there are diverse and wide-spread research and development activities across SNL/NM, the growing stormwater database, including samples upgradient of those activities, can be increasingly valuable for determining source as well as background level standards. Until such a viable stormwater database exists, the range for groundwater can be used as a relative measurement of

what magnesium concentrations in stormwater should look like and establish higher-than-average levels that trigger further investigation.

3. References

Plummer, Niel L., L.M. Bexfield, S.K. Anderholm, W.E. Sanford and E. Busenberg. 2004. Geochemical Characterization of Groundwater Flow in the Santa Fe Group Aquifer System, Middle Rio Grande Basin, New Mexico. Water Resources Investigations Report 03-4131. Reston, Virginia. U.S. Geological Survey.

Albuquerque Bernalillo County Water Utility Authority water quality web site: http://www.abcwua.org/water_quality_by_distribution_zone.aspx

Appendix J: Form Templates

No.	Description
J-1	MSGP Visual Assessment Form
J-2	Record of Stormwater Discharge at MSGP Sites
J-3	MSGP Site Inspection Report
J-4	MSGP Corrective Action Report

Appendix J-1

MSGP VISUAL ASSESSMENT FORM CERTIFICATION STATEMENTS

NATIONAL TECHNOLOGY & ENGINEERING SOLUTIONS OF SANDIA, LLC

"I certify under penalty of law that this document and all attachments 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: ____________________________ **Title:** ___________________________________

Signature: ____ **Date:** ____________________

DEPARTMENT OF ENERGY
NATIONAL NUCLEAR SECURITY ADMINISTRATION

"I certify under penalty of law that this document and all attachments 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: ____________________________ **Title:** ___________________________________

Signature: ____ **Date:** ____________________

MSGP Visual Assessment Form

Post-Inspection Review of Visual Observations

I. Site Information and Precipitation Data	
Name of Permitted Facility	Sandia National Laboratories
Permit Numbers	NMR053114 (DOE) and NMR053122 (NTESS)
Outfall Number	SWSP No.
Site Name	SITE NAME
Monitoring Period (Month/yyyy):	
Did previous storm end < 72 hours before start of current Storm? ☐ No[1], ☐ Yes, ☐ N/A[2], skip to Section II	Time since previous measurable precipitation event (days):
SWSP Associated Met Tower	Closest Met Tower
Date(s) & Time(s) Storm(s) Began	
Date(s) & Time(s) Storm(s) Ended	

II. Probable Sources of Stormwater Pollution (based on observations in Section V): ☐ N/A ☐ see explanation below:

Based on the explanation above, is there evidence indicating that the control measures are not being properly operated and maintained? ☐ N/A ☐ No ☐ Yes, a corrective action form will be completed.

[1] For areas where a less than a 72-hour (3-day) interval is representative of local storms for that monitoring period, MSGP Part 6.1.3 provides an exception to the 72-hour requirement. SNL/NM complies with this exception; see SWPPP for explanation.

[2] N/A for retention basins - sample retrieved just prior to facility-scheduled discharge and not associated with a storm event.

Signature of Post-Inspection Reviewer

"I certify under penalty of law that this document and all attachments 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: ______________________________ **Title:** ____________________________________

Signature: ____ **Date:** _____________________

MSGP Visual Assessment Form
Field Assessment

If less than 250 ml in sampler, do not perform visual assessment. Document volume on MSGP Site Check Form (SW2011-42).

III. Stormwater Sample Point Information	
Outfall Number	SWSP No.
Site Name	SITE NAME
Monitoring Period (Month/yyyy):	
Date/time of visual assessment[3] (mm/dd/yy, 12 hr. am/pm)	

IV. Sample Collection/Retrieval

Is this visual assessment considered a "substitute sample" for a previous storm event where adverse or unsafe conditions impacted the ability to conduct monitoring? ☐ No ☐ Yes

Do current adverse weather, unsafe conditions or testing operations prohibit access to this SWSP?
☐ No ☐ Yes[4]; explain

Was this sample retrieved from a retention basin?
☐ No; continue completing Section IV.
☐ Yes[5]; skip to Section V.

SWSP Rain Gauge Amount (inches): ______

Volume of stormwater collected in sampler (ml): ______ ☐ measured ☐ estimated

V. Field Activities Signatures	
Person(s) retrieving sample from sample location (printed name):	**Signature(s):**

[3] Stormwater is collected in passive sampling devices, likely within 30 minutes of an actual discharge from a storm event. Samples are removed from the devices as soon as practicable, but not within 30 minutes of a discharge. This is due to a large number of sampling points located miles apart and in remote locations. SNL/NM's arid climate includes patchy, high intensity storms of short duration. Access to sampling points during and shortly after intense storm can be hazardous.

[4] Attempt safe access within 24 hrs. from initial visit. If retrieval exceeds 48 hours of initial attempt, do not process. Collection of substitute sample is required during the next qualifying storm event.

[5] Sampling at retention basins is conducted just prior to discharge from the basin and is not associated with a specific storm event.

Site Name: SITE NAME Inspection Date: ____________________

MSGP Visual Assessment Form

Visual Assessment

VI. Observations by Numeric Scale (enter 1 through 5)	
Clarity: ____	**1**=clear, **2**= slightly cloudy (few particles), **3**=cloudy (moderate particles), **4**=very cloudy (a lot of particles), **5**= opaque (dark, muddy)
Floating Solids/Organics _____	**1**=none, **2**= light, **3**=moderate, **4**=heavy, **5**= very heavy (thick debris lens)
Suspended Solids (fine sediments, organics): _____	**1**=none, **2**= light, **3**=moderate, **4**=heavy, **5**= opaque (dark, muddy)
Settled Solids (sediments): _____	**Observe settled solids after allowing sample to sit for 30 minutes:** **1**=none, **2**= light, **3**=moderate, **4**=heavy, **5**= very heavy (thick lens of debris)

VII. Observations by Description	
Color (Unusual - not usual sediment)	☐ None ☐ Other, describe:
Odor (e.g.: Musty, sewage, sulfur, sour, petroleum, gas, solvents, other)	☐ None ☐ Other, describe:
Oil Sheen	☐ None ☐ Flecks ☐ Globs ☐ Sheen ☐ Slick ☐ Other, describe:
Foam (gently shake sample)	☐ No ☐ Yes, describe:
Other indicators of stormwater pollution and/or identifiable materials*	☐ No ☐ Yes, describe:

Signature of Visual Assessor

"I certify under penalty of law that this document and all attachments 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: ____________________________ Title: __________________________________

Signature: ____ Date: ___________________

Addendum
Stormwater MSGP Visual Assessment Form

MSGP Site Names

SWSP	MSGP Site Name (with acronym where applicable)	Associated Met Tower
5	TA-I MSGP Sites	A21
8	Classified Waste Landfill (ClWL)	A36
17	Long Sled Track (SWMU 83)	A36
40	Hazardous Waste Handling Unit (HWHU)	N/A
41	Reapplication Yard	A21
42	Solid Waste Collection and Recycling Center (SWCRC)	A21
46	Gun Facilities (SWMU 84)	A36
47	Short Sled Track (SWMU 240)	A36
48	Thermal Treatment Unit (TTU)	A36
49	Radioactive & Mixed Waste Management Unit (RMWMU)	N/A
50	Center for Integrated Nanotechnology (CINT)	A21
51	Manzano Storage Bunkers (MSBs)	SC1
52	TA V Sandlot	A36
57	STENT 11 (MSP2)	A21

Appendix J-2

RECORD OF STORMWATER DISCHARGE AT MSGP SITES

To be Filed with Visual Assessments Forms

CERTIFICATION STATEMENTS

NATIONAL TECHNOLOGY & ENGINEERING SOLUTIONS OF SANDIA, LLC

"I certify under penalty of law that this document and all attachments 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: ____________________________ **Title:** __________________________________

Signature: ____ **Date:** ___________________

DEPARTMENT OF ENERGY
NATIONAL NUCLEAR SECURITY ADMINISTRATION

"I certify under penalty of law that this document and all attachments 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: ____________________________ **Title:** __________________________________

Signature: ____ **Date:** ___________________

 MSGP Monitoring Period (Month/yyyy): __________________

RECORD OF STORMWATER DISCHARGE AT MSGP SITES

To be Filed with Visual Assessments Forms

I. Site Information	
Name of Permitted Facility:	Sandia National Laboratories
Permit Numbers:	NMR053114 (DOE) and NMR053122 (NTESS)
MSGP Monitoring Period (Month/Year):	

II. Record of No Stormwater Discharge at MSGP Sites					
MSGP SWSP[1] No.	**MSGP Site Name**	**Was a stormwater sample collected at this SWSP for this Monitoring Period?** (check applicable box)			**Last Measurable Precipitation (Days)[5]** (by Post-inspection Reviewer)
		Yes[2]	**No, Not Sufficient Discharge[3]**	**No, Other[4] Refer to Section III**	
5	TA-I MSGP Sites[6]				
8	Classified Waste Landfill (ClWL)				
17	Long Sled Track (SWMU 83)				
40	Hazardous Waste Handling Unit (HWHU)				**N/A[7]**
41	Reapplication Yard				
42	Solid Waste Collection and Recycling Center (SWCRC)				
46	Gun Facilities (SWMU 84)				
47	Short Sled Track (SWMU 240)				
48	Thermal Treatment Unit (TTU)				
49	Radioactive & Mixed Waste Management Unit (RMWMU)				**N/A[7]**
50	Center for Integrated Nanotechnology (CINT)				
51	Manzano Storage Bunkers (MSBs)				
52	TA V Sandlot				
57	STENT 11 (MSP2)				

[1] SWSP = Stormwater Sample Point
[2] If "**Yes**": A Visual Assessment Form (EP2011-01) must be completed for the Outfall as required in the MSGP SWPPP.
[3] This monitoring period's precipitation events failed to produce a stormwater discharge sufficient for sample collection. For this reason, a visual assessment at this outfall was not conducted.
[4] Other reasons for not completing a visual assessment (e.g.: restricted access to outfall, equipment failure); enter explanation in Section III.
[5] Time since last measurable precipitation event based on site-specific rain gauge data, completed by post-inspection reviewer.
[6] SWSP 05 receives discharge from the Advanced Manufacturing Processes Lab and Fleet Services.
[7] Retention basin – sampling is conducted just prior to facility-scheduled discharge and not associated with a precipitation event.

 MSGP Monitoring Period (Month/yyyy): ___________________

RECORD OF STORMWATER DISCHARGE AT MSGP SITES

To be Filed with Visual Assessments Forms

III. Additional Information

Signature of Field Inspector

"I certify under penalty of law that this document and all attachments 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: ______________________________ **Title:** ____________________________________

Signature: ____ **Date:** ____________________

Signature of Post-Inspection Reviewer

"I certify under penalty of law that this document and all attachments 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: ______________________________ **Title:** ____________________________________

Signature: ____ **Date:** ____________________

MSGP Monitoring Period (Month/yyyy): ________________

Appendix J-3

MSGP SITE INSPECTION REPORT
CERTIFICATION STATEMENTS

NATIONAL TECHNOLOGY & ENGINEERING SOLUTIONS OF SANDIA, LLC

"I certify under penalty of law that this document and all attachments 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:___________________________ **Title:**_________________________________

Signature:____ **Date:**____________________

DEPARTMENT OF ENERGY
NATIONAL NUCLEAR SECURITY ADMINISTRATION

"I certify under penalty of law that this document and all attachments 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:___________________________ **Title:**_________________________________

Signature:____ **Date:**____________________

Stormwater MSGP Site Inspection Report

General Information				
Site Name				
NPDES Tracking No.	MSGP NOIs: NMR053114 (DOE) NMR053122 (NTESS)			
Date of Inspection		**Start Time** ☐AM ☐PM	**End Time** ☐AM ☐PM	
Inspector's Name(s)				
Inspector's Contact Information				
Inspector's Title/Qualifications (check all that apply)	☐ Qualified Personnel (minimum requirement)[1] ☐ Certified Inspector[2] Certification *Type*: _____________ *Number*: _________ ☐ CISEC Trained (not certified) ☐ NPDES Training ☐ Other:			

Type of Inspection

Routine Inspection ☐ Quarterly

☐ Sector-specific - Wet season (July 1 – Oct 31) – Every 14 days and 24 hours of 0.25 in. storm event

☐ Sector-specific - Dry Season (Nov 1 – June 30) – Once per month

Stormwater Discharge Occurrence (minimum once per year) ☐ Yes ☐ No

Weather at time of this inspection? (check all that apply)

☐Clear ☐Partly Cloudy ☐Cloudy ☐Rain ☐Sleet ☐Fog ☐Snowing ☐High Winds

☐ Other: Temperature: _______°F

Have the results of the past year's visual and analytical monitoring been considered for this inspection? Note any anomalies. ☐ No ☐ Yes

Have spills or leaks occurred in the past three years on this site? ☐ No ☐ Yes

If yes, describe:

Is a storm event (stormwater discharge from site) occurring at the time of or immediately before the inspection?

☐ No ☐ Yes **If yes, describe:**

Are there any discharges of pollutants from this site at the time of inspection? ☐ No ☐ Yes

If yes, describe:

Have any previously unidentified discharges of pollutants occurred from this site since the last inspection? ☐ No ☐ Yes

If yes, describe:

Is there any evidence of, or the potential for, pollutants entering the SNL MS4? ☐ No ☐ Yes

If yes, describe:

[1] "Qualified Personnel" are those who possess the knowledge and skills to assess conditions and activities that could impact stormwater quality, and who can also evaluate the effectiveness of control measures. Additionally, the inspector is trained annually on the specific control measures used to achieve the effluent limits; and monitoring, inspection, planning, reporting, and documentation requirements in the MSGP. See training credentials in the SWPPP.

[2] A "Certified Inspector" has completed and passed the testing requirements of an erosion/sediment/stormwater controls course and has obtained an official certificate. See certification credentials in the SWPPP.

Areas Containing Industrial Materials or Activities Potentially Exposed to Stormwater[3]			
No.	**Area/Activity Inspected**		**Notes/Corrective Action Needed[4]**
1	Is the site in clean and orderly condition? If no, explain.	☐ Yes ☐ No ☐ N/A	
2	Is the area free of spills or leaks from industrial equipment, drums, tanks, and other containers? If no, explain.	☐ Yes ☐ No ☐ N/A	
3	Is there a spill kit onsite?	☐ Yes ☐ No ☐ N/A	
4	Is the area free of industrial material, residues, or trash on the ground that could be exposed to stormwater runoff? If no, explain.	☐ Yes ☐ No ☐ N/A	
5	Are paved areas clean with no signs of spills or leaks? If no, explain.	☐ Yes ☐ No ☐ N/A	
6	Is the area stabilized with no evidence of erosion and/or soil disturbance resulting from permitted activities? If no, explain.	☐ Yes ☐ No ☐ N/A	
7	Are exposed areas on the site free of waste materials that have been blown-in or tracked-in from areas of no exposure?	☐ Yes ☐ No ☐ N/A	
8	Inspect areas where spills or leaks occurred on the site in the past three years. Are control measures effective in addressing potential for discharge of pollutants? If no, explain.	☐ Yes ☐ No ☐ N/A	
9	If there are site-specific area/activities at this site, note the area/activity. Is the area clean and orderly and does the activity meet permit requirements?	☐ Yes ☐ No ☐ N/A	

Control Measures[3]			
No.	**Control Measure Inspected**		**Notes/Corrective Action Needed[4]**
1	Is the fence in good condition and, if required, are all gates locked?	☐ Yes ☐ No ☐ N/A	
2	Are the loading docks clean and orderly?	☐ Yes ☐ No ☐ N/A	
3	Are the collection swales and ponds in good condition and free of debris?	☐ Yes ☐ No ☐ N/A	
4	Are vehicle exit areas clean with no evidence of offsite tracking of industrial waste materials or sediment?	☐ Yes ☐ No ☐ N/A	

[3] If it is unsafe to inspect a portion of the site, describe the reason and specify the location that was unable to be inspected.

[4] If corrective actions are needed, refer to MSGP Part 4, and the SWPPP for timelines of completion. Documentation of corrective actions is required to be recorded on the Stormwater MSGP Corrective Action Form.

Control Measures[3]			
No.	**Control Measure Inspected**		**Notes/Corrective Action Needed[4]**
5	Do control measures achieve the intended effect to minimize pollutant discharges and meet non-numeric effluent limits of the SWPPP and MSGP Part 2.1.2?	☐ Yes ☐ No ☐ N/A	
6	Are storm drain inlets/grates clean?	☐ Yes ☐ No ☐ N/A	
7	Inspect all outfalls for the site. Are the outfalls and the areas around the outfalls, including any flow dissipation devices, in good physical condition?	☐ Yes ☐ No ☐ N/A	
8	If there are site-specific control measures, do they achieve the intended effect to minimize pollutant discharges and meet non-numeric effluent limits of the SWPPP and MSGP Part 2.1.2? *Note: Addendum Form SW2011-60 will be attached to Sector P site inspection reports.*	☐ Yes ☐ No ☐ N/A	

SWPPP Revisions			
No.	**Observations**		**Notes**
1	Any revisions of the SWPPP required as a result of this inspection?	☐ Yes ☐ No ☐ N/A	

INSPECTOR SIGNATURE

"I certify under penalty of law that this document and all attachments 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:____________________________ **Title:**__________________________________

Signature:____ **Date:**____________________

Appendix J-4

MSGP CORRECTIVE ACTION REPORT CERTIFICATION STATEMENTS

NATIONAL TECHNOLOGY & ENGINEERING SOLUTIONS OF SANDIA, LLC

"I certify under penalty of law that this document and all attachments 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: **Title:**

Signature: ____ Date: ___________________

Printed Name: **Title:**

Signature: ____ Date: ___________________

DEPARTMENT OF ENERGY
NATIONAL NUCLEAR SECURITY ADMINISTRATION

"I certify under penalty of law that this document and all attachments 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: **Title:**

Signature: ____ Date: ___________________

MSGP Corrective Action Report

Instructions: Complete as much of this form as possible (through Question 8) within 24 hours of discovery of the corrective condition. Within 14 days of discovery of the corrective condition, review Questions 8-13 and provide additional information. Corrective actions are required to be conducted within the timeframes set forth in Multi-Sector General Permit (MSGP) Part 4.3.

1. The purpose of this corrective action report is to:

   ☐ Update a corrective action report previously documented.

   ☐ Document a new corrective action.

2. Identify the condition(s) triggering the need for this report and review of the Stormwater Pollution Prevention Plan[1]:

   ☐ Unauthorized release or discharge. [Note: See MSGP Appendix B.12.F reporting requirements.]

   ☐ Numeric effluent limitation exceedance.

   ☐ Control measures inadequate to meet applicable water quality standards.

   ☐ Control measures inadequate to meet non-numeric effluent limitations of MSGP Part 2.

   ☐ Control measures not properly operated or maintained.

   ☐ Change in site operations necessitated change in control measures.

   ☐ Average benchmark value exceedance.

   ☐ Other: describe

3. Date/time condition was identified: ☐ AM ☐ PM

4. Location where condition was identified:

   Latitude: Longitude:

[1] If the condition is associated with a "substantially identical outfall", the review must assess the need for corrective action(s) for all related substantially identical outfalls. See MSGP Part 4.6.

5. Did the condition occur on a MSGP-permitted site?

   ☐ No

   ☐ Yes:

6. How was the condition identified?

   ☐ Quarterly visual assessment.

   ☐ Routine site inspection.

   ☐ Benchmark monitoring.

   ☐ Notification by EPA or State or local authorities.

   ☐ Other:

7. Briefly describe the nature of the corrective condition. For any spills or leaks, include information regarding the material released, the amount, cause/source of the release, and whether it was discharged to waters of the United States (through stormwater or otherwise).

8. Description of immediate corrective action(s) taken (or to be taken) to minimize or prevent the discharge of pollutants. For any spills or leaks, include notifications made and entities involved.

9. Description of additional corrective action(s) taken (or to be taken) to eliminate or further investigate the condition (e.g., describe modifications or repairs to control measures, analyses to be conducted, etc.), including any measures taken to prevent the reoccurrence of such conditions/releases.

10. With consideration to the circumstances of the corrective condition, and upon review of the SWPPP (i.e., sections regarding sources of pollution; spill and leak procedures; non-stormwater discharges; and the selection, design, installation and implementation of your control measures), is a SWPPP modification(s) necessary to meet the effluent limits in the MSGP and/or minimize pollutant discharges?

    ☐ No

    ☐ Yes. Briefly summarize SWPPP modifications that will be certified in accordance with MSGP Appendix B.11.

11. Date corrective action initiated:

12. Date correction action completed:
or *expected to be* completed:

13. If the corrective action(s) is not yet completed, provide the status of the corrective action(s) and describe any remaining steps necessary to complete corrective action(s), including timeframes associated with each step (maximum of 45 days). Extensions of the 45-day timeframe may be requested through the Environmental Protection Agency, if necessary.

Appendix K: Stormwater Team Training and Certifications

No.	Description
K-1	Stormwater Team Training Documentation and Certificates

Appendix K-1

CISEC, Inc.

Board of Directors

certifies that

Carolyn Daniel

has demonstrated satisfactory evidence of sediment and erosion control inspection skills and successfully passed the certification examination and therefore, as required by CISEC, Inc., is authorized to use the title of

Certified Inspector of Sediment and Erosion Control

Given this 26th day of June, 2015

CISEC, Inc. President

CISEC, Inc. Board of Director

1714

Certification Number

EnviroCert International, Inc.®

certifies that

John T Kay

Subscribes to the Code of Conduct and Ethics and has met the requirements established for the CPESC® Program as a

Certified Professional in Erosion and Sediment Control™

CPESC Number: 8358

Certificate Date: October 13, 2015

Alan Black, Director, Technical Committee Chair

Robert Anderson, EnviroCert Board President

The CPESC Certification was established in 1982

Certificate of Attendance

THIS ACKNOWLEDGES THAT

Victoria Branson

ATTENDED THE NEW MEXICO ENVIRONMENT DEPARTMENT
2018 MSGP GENERAL PERMIT NPDES WORKSHOP
(6 HOURS)

APRIL 24, 2018
RIO RANCHO, NEW MEXICO

Certificate of Attendance

THIS ACKNOWLEDGES THAT

VICTORIA BRANSON

ATTENDED THE NEW MEXICO ENVIRONMENT DEPARTMENT
2018 CONSTRUCTION GENERAL PERMIT NPDES WORKSHOP
(6 HOURS)

MARCH 19, 2018
ALBUQUERQUE, NEW MEXICO

Appendix L: Criterion C Eligibility Forms

No.	Description
L-1	Criterion C Eligibility Forms Notice of Submittal e-mail
L-2	DOE Criterion C Eligibility Forms for NMR053114
L-3	Corporation Criterion C Eligibility Forms for NMR053122

Appendix L-1

From:	Agogino, Karen
To:	msgpesa@epa.gov
Cc:	Lacy, Susan D.; Ortiz, William Paul (SFO); Agogino, Karen Leigh (SFO); Salinas, Stephanie; Deal, Kathie J.; Daniel, Carolyn; Cuellar, Selma
Subject:	[EXTERNAL] Submittal of Criterion C Eligibility Forms for DOE and Sandia, Sandia National Laboratories per NPDES 2015 MSGP
Date:	Thursday, July 16, 2015 12:56:33 PM
Attachments:	Enclosure 1 DOE Criterion C 7-16-2015.pdf Enclosure 2 Sandia Criterion C 7-16-2015.pdf

To whom it may concern:

On behalf of the U.S. Department of Energy, National Nuclear Security Administration, Sandia Field Office (DOE/NNSA/SFO) as Owner and Sandia Corporation (Sandia) as Operator of Sandia National Laboratories enclosed are the following files;

Enclosure 1, Department of Energy, NPDES 2015 MSGP, Criterion C Eligibility Form

Enclosure 2, Sandia, NPDES 2015 MSGP, Criterion C Eligibility Form

The respective forms have been certified by Jeffrey P. Harrell, Manager of the DOE/NNSA/SFO and by Michael W. Hazen, Vice President of Sandia. The enclosed Criterion C Eligibility Forms state that stormwater discharges and discharge-related activities covered under the NPDES 2015 MSGP at DOE and at Sandia are not likely to adversely affect listed threatened or endangered species or designated critical habitat.

I would appreciate a reply to confirm receipt of this email. Thank You.

Karen Agogino, P.E. NM & CA, CISEC
Water Quality Program Manager
DOE National Nuclear Security Administration
Sandia Field Office
505 845-6100
Email: karen.agogino@nnsa.doe.gov

From:	Agogino, Karen
To:	Deal, Kathie J.; Daniel, Carolyn; Lacy, Susan D.; Ortiz, William Paul (SFO); Salinas, Stephanie
Subject:	[EXTERNAL] FW: COMPLETE - Criterion C Eligibility Form Forwarded to the Services, DOE Sandia National Laboratories, NM
Date:	Friday, July 17, 2015 3:46:41 PM

For your records.

Karen Agogino, P.E. NM & CA, CISEC
Water Quality Program Manager
DOE National Nuclear Security Administration
Sandia Field Office
505 845-6100
Email: karen.agogino@nnsa.doe.gov

From: Naeser, Robert [mailto:robert.naeser@tetratech.com]
Sent: Friday, July 17, 2015 3:39 PM
To: Agogino, Karen
Cc: MSGPESA
Subject: COMPLETE - Criterion C Eligibility Form Forwarded to the Services, DOE Sandia National Laboratories, NM

This email is in response to the Criterion C Eligibility Form (Form) submitted to U.S. EPA as part of the industrial stormwater Multi-Sector General Permit (MSGP) requirements. The Form submitted for DOE Sandia National Laboratories in Albuquerque, NM was complete and forwarded to the Services (FWS and NMFS) for review on July 17, 2015. You may submit the NOI for permit coverage if no response is received by August 15, 2015.

Robert B. Naeser | Senior Environmental Scientist
Direct: 720.407.1543 | Main: 303.217.5700 | Fax: 303.217.5705
robert.naeser@tetratech.com

Tetra Tech | Complex World, **Clear Solutions**™
350 Indiana Street, Suite 500 | Golden, CO 80401 | www.ttwater.com

Appendix L-2

Criterion C Eligibility Form

Instructions:

In order to be eligible for coverage under criterion C, you must complete the following form and you must submit it to EPA following the instructions in Section VII a **minimum of 30 days prior to filing your NOI for permit coverage.** After you submit your form, you may be contacted by EPA with additional measures (e.g., additional stormwater controls or modifications to your discharge-related activities) that you must implement in order to ensure your eligibility under criterion C.

If after completing this worksheet you cannot make a determination that your discharges and discharge-related activities are not likely to adversely affect listed threatened or endangered species or designated critical habitat, you must submit this completed worksheet to EPA, and you may not file your NOI for permit coverage until you receive a determination from EPA that your discharges and/or discharge-related activities are not likely to adversely affect listed species and critical habitat.

Note: Much of the information needed for this form can be obtained from your draft SWPPP which will be needed when you file your NOI.

SECTION I. OPERATOR, FACILITY, AND SITE LOCATION INFORMATION.

1) **Operator Information**

a) **Operator Name:** Department of Energy, Sandia Field Office

b) **Point of Contact**

First Name: Karen **Last Name:** Agogino

Phone Number: (505) 845-6100

E-mail: karen.agogino@nnsa.doe.gov

2) **Facility Information**

a) **Facility Name:** Department of Energy /Sandia National Laboratories/New Mexico

b) **Check which of the following applies:**

☐ I am seeking coverage under the MSGP as a new discharger or as a new source

☒ I am seeking coverage under the MSGP as an existing discharger and my facility has modifications to its discharge characteristics (e.g., changes in discharge flow or area drained, different pollutants) and/or discharge-related activities (e.g., stormwater controls)

Indicate the number of years the facility has been in operation: 65 years

Provide your NPDES ID (i.e., permit tracking number) from your previous MSGP coverage: NMR05GP29

☐ I am seeking coverage under the MSGP as an existing discharger and there are no modifications to my facility.

Indicate the number of year the facility has been in operation: ________ years

Provide your NPDES ID (i.e., permit tracking number) from your previous MSGP coverage: ______________

c) **Facility Address:**

Address 1: 1515 Eubank Blvd.

Address 2: ______

City: Albuquerque **State:** NM **Zip Code:** 87123

d) **Identify the primary industrial sector to be covered under the 2015 MSGP:**

SIC Code ---- or Primary Activity Code HZ

Sector K and Subsector K1

e) **Identify the sectors of any co-located activities to be covered under the 201r MSGP:**

Sector J Subsector J1

Sector K Subsector K1

Sector L Subsector L1

Sector N Subsector N1, N2

Sector P Subsector P1

Sector AC Subsector AC1

f) **Estimated area of industrial activity exposed to stormwater:** 976 **acres**

g) **Provide a general description of the industrial activities that are taking place at this facility:**

Sandia National Laboratories (SNL) is engaged in research and development of nonnuclear components of weapons systems, energy projects, and other programs in the national interest. SNL management encourages and seeks partnerships with appropriate U.S. industry and government groups to collaborate on emerging technologies that support the SNL mission. SNL also develops new technologies in non-military areas, covering a broad spectrum of activities and new emerging technologies in areas such as microelectronics and electronic products, computer systems, materials studies, robotics, microelectromechanical systems, biomedical engineering, and solar, wind, and fusion energy research.

3) **Receiving Waters Information**

List all the stormwater outfalls from your facility.				For each outfall, provide the following receiving water information:	
Outfall ID	**Design Capacity (if known)**	**Latitude (decimal degrees)**	**Longitude (decimal degrees)**	**Name of the receiving water that receives stormwater from the outfall and/or from the MS4 that the outfall discharges to**	**Type of Waterbody (e.g., lake, pond, river/stream/creek, estuarine/marine water)**
SWSP 17	unknown	35.000	106.559	Unnamed Playa Lake	closed playa lake
SWSP 22	unknown	34.959	106.475	Unnamed Playa Lake	closed playa lake
SWSP 32	unknown	34.976	106.507	Unnamed Playa Lake	closed playa lake
SWSP 40	unknown	35.044	106.544	Tijeras Arroyo	ephemeral arroyo
SWSP 41	unknown	35.041	106.550	Tijeras Arroyo	ephemeral arroyo

Section 3 Table (pg. 1 of 4), table continued on next page:

Additional information page (1 of 3) for Page 2, Section 3 Table. Receiving Waters Information only - refer to original Page 2 for all other entries.

c) Facility A

Address 1: ______________________________

Address 2: ______________________________

City: ____________________ **State:** ______ **Zip Code:** ______________

d) Identify the primary industrial sector to be covered under the 2015 MSGP:

SIC Code _____ or Primary Activity Code _____

Sector ______ and Subsector _______

e) Identify the sectors of any co-located activities to be covered under the 201r MSGP:

Sector ______ Subsector ______

Sector ______ Subsector ______

Sector ______ Subsector ______

Sector ______ Subsector ______

Sector ______ Subsector ______

Sector ______ Subsector ______

f) Estimated area of industrial activity exposed to stormwater: ______________ **acres**

g) Provide a general description of the industrial activities that are taking place at this facility:

3) Receiving Waters Information

List all the stormwater outfalls from your facility.				For each outfall, provide the following receiving water information:	
Outfall ID	Design Capacity (if known)	Latitude (decimal degrees)	Longitude (decimal degrees)	Name of the receiving water that receives stormwater from the outfall and/or from the MS4 that the outfall discharges to	Type of Waterbody (e.g., lake, pond, river/stream/creek, estuarine/marine water)
SWSP 42	unknown	35.041	106.544	Tijeras Arroyo via SNL MS4	ephemeral arroyo
SWSP 43	unknown	35.002	106.468	Tijeras Arroyo via Arroyo de Coyote	ephemeral arroyo
SWSP 44	unknown	35.03	106.544	Tijeras Arroyo	ephemeral arroyo
SWSP 45	unknown	34.993	106.546	Unnamed Playa Lake	closed playa lake
SWSP 46	unknown	34.987	106.553	Unnamed Playa Lake	closed playa lake

Section 3 Table (pg. 2 of 4), table continued on next page:

Additional information page (2 of 3) for Page 2, Section 3 Table. Receiving Waters Information only -refer to original Page 2 for all other entries.

c) **Facility Addr**

Address 1: ____________________

Address 2: ____________________

City: ____________________ **State:** ________ **Zip Code:** ____________________

d) **Identify the primary industrial sector to be covered under the 2015 MSGP:**

SIC Code ______ or Primary Activity Code _____

Sector _______ and Subsector ________

e) **Identify the sectors of any co-located activities to be covered under the 201r MSGP:**

Sector _______ Subsector _______

Sector _______ Subsector _______

Sector _______ Subsector _______

Sector _______ Subsector _______

Sector _______ Subsector _______

Sector _______ Subsector _______

f) **Estimated area of industrial activity exposed to stormwater:** ________________ **acres**

g) **Provide a general description of the industrial activities that are taking place at this facility:**

3) **Receiving Waters Information**

List all the stormwater outfalls from your facility.				For each outfall, provide the following receiving water information:	
Outfall ID	**Design Capacity (if known)**	**Latitude (decimal degrees)**	**Longitude (decimal degrees)**	**Name of the receiving water that receives stormwater from the outfall and/or from the MS4 that the outfall discharges to**	**Type of Waterbody (e.g., lake, pond, river/stream/creek, estuarine/marine water)**
SWSP 47	unknown	34.992	106.544	Unnamed Playa Lake	Unnamed Playa Lake
SWSP 48	unknown	34.998	106.544	Indirectly (overland flow) to Tijeras Arroyo	ephemeral arroyo
SWSP 49	unknown	34.971	106.539	Unnamed Playa Lake	Unnamed Playa Lake
SWSP 51	unknown	35.000	106.486	Tijeras Arroyo via Arroyo de Coyote, ephemeral arroyos	ephemeral arroyos
SWSP 52	unknown	34.998	106.536	Indirectly (overland flow) to Tijeras Arroyo	ephemeral arroyo

Section 3 Table (pg. 3 of 4), table continued on next page:

Additional information page (3 of 3) for Page 2, Section 3 Table. Receiving Waters Information only -refer to original Page 2 for all other entries.

c) **Facility Addr**

Address 1: ______________________________

Address 2: ______________________________

City: ______________________ **State:** _______ **Zip Code:** ______________

d) **Identify the primary industrial sector to be covered under the 2015 MSGP:**

SIC Code ______ or Primary Activity Code _____

Sector _______ and Subsector ________

e) **Identify the sectors of any co-located activities to be covered under the 201r MSGP:**

Sector _______ Subsector _______

Sector _______ Subsector _______

Sector _______ Subsector _______

Sector _______ Subsector _______

Sector _______ Subsector _______

Sector _______ Subsector _______

f) **Estimated area of industrial activity exposed to stormwater:** ________________ **acres**

g) **Provide a general description of the industrial activities that are taking place at this facility:**

3) **Receiving Waters Information**

List all the stormwater outfalls from your facility.				For each outfall, provide the following receiving water information:	
Outfall ID	**Design Capacity (if known)**	**Latitude (decimal degrees)**	**Longitude (decimal degrees)**	**Name of the receiving water that receives stormwater from the outfall and/or from the MS4 that the outfall discharges to**	**Type of Waterbody (e.g., lake, pond, river/stream/creek, estuarine/marine water)**
Fleet Services	unknown	35.053	106.542	Tijeras Arroyo	ephemeral arroyo
AMPL TA I	unknown	35.051	106.542	Tijeras Arroyo via SNL MS4	ephemeral arroyo
NGF TA I	unknown	35.049	106.540	Tijeras Arroyo via SNL MS4	ephemeral arroyo
SWSP 08	unknown	35.985	106.536	Unnamed Playa Lake	closed playa lake
		___.____	___.____		

Section 3 Table (pg. 4 of 4)

SECTION II. ACTION AREA

Ensure that your action area is described in Attachment 1, as required in Step 2.

SECTION III. LISTED SPECIES AND CRITICAL HABITAT LIST

Ensure that the listed species and critical habitat list is included in Attachment 2, as required in Step 3.

Review your species list in Attachment 2, choose one of the following three statements, and follow the corresponding instructions:

☐ The species list includes only terrestrial species and/or their designated critical habitat. No aquatic or aquatic-dependent species or their critical habitat are present in the action area. **You may skip to Section IV of this form. You are not required to fill out Section V.**

☐ The species list includes only aquatic and/or aquatic-dependent species and/or their designated critical habitat. No terrestrial species or their critical habitat are present in the action area. **You may skip to Section V of this form and are not required to fill out Section IV.**

☒ The species list includes both terrestrial and aquatic or aquatic-dependent species and/or their designated critical habitat. **You must fill out both Sections IV and V of this form.**

> ***Note:*** For the purposes of this permit, "terrestrial species" would not include animal or plant species that 1) spends any portion of its life cycle in a waterbody or wetland, or 2) if an animal, depends on prey or habitat that occurs in a waterbody or wetland. For example, shorebirds, wading birds, amphibians, and certain reptiles would not be considered terrestrial species under this definition. Please also be aware that some terrestrial animals (e.g., certain insects, amphibians) may have an aquatic egg or larval/juvenile phase.

SECTION IV. EVALUATION OF DISCHARGE-RELATED ACTIVITIES EFFECTS

Note: You are only required to fill out this section if your facility's action area contains terrestrial species and/or their designated critical habitat. If your action area only contains aquatic and/or aquatic-dependent species and/or their designated critical habitat, you can skip directly to Section V.

Most of the potential effects related to coverage under the MSGP are assumed to occur to aquatic and/or aquatic-dependent species. However, in some cases, potential effects to terrestrial species and/or their critical habitat should be considered as well from any discharge-related activities that occur during coverage under the MSGP. Examples of discharge-related activities that could have potential effects on listed terrestrial species or their critical habitat include the storage of materials and land disturbances associated with stormwater management-related activities (e.g., the installation or placement of stormwater control measures).

A. Select the applicable statement(s) below and follow the corresponding instructions:

☐ There are no discharge-related activities that are planned to occur during my coverage under the MSGP. You can conclude that your discharge-related activities will have no likely adverse effects, and:

- If there are any aquatic or aquatic-dependent species and/or their critical habitat in your action area, you must skip to Section V, *Evaluation of Discharge Effects*, below.
- If there are no aquatic or aquatic-dependent species you may skip to Section VI and verify that your activities will have no likely adverse effects. You must submit this form to EPA as specified in Section VII of this form. You may select criterion C on your NOI form and may submit your NOI for permit coverage 30 days after you have submitted this *Criterion C Eligibility Form*. You must also provide a description of the basis for the criterion you selected on your NOI form, **including the species and critical habitat list(s) in your action area**, as well as any other documentation supporting your eligibility. You must also include this completed *Criterion C Eligiblity Form* in your SWPPP.

☒ There are discharge-related activities planned as part of the proposal. Describe your discharge-related activities in the following box and continue to (b) below.

Describe discharge-related activities:

Outfalls at industrial activity areas with potential stormwater discharges are listed in Section 1.3. The majority of the industrial activity areas with potential stormwater discharges are covered under Sector K of the MSGP, including Solid Waste Management Units (SWMUs) and Hazardous Waste Management Units (HWMUs). Sector N recycling sites and one Sector L landfill also have potential stormwater discharges covered under the 2015 MSGP. More details on activities will be included in the SNL 2015 MSGP SWPPP.

B. In order to ensure any discharge-related activities will have no likely adverse effects on listed species and/or their designated critical habitat, you must certify that all the following are true:

☒ Discharge-related activities will occur:

- on previously cleared/developed areas of the site where maintenance and operation of the facility are currently occurring or where existing conditions of the area(s) in which the discharge-related activities will occur precludes its use by listed species (e.g., work on existing impervious surfaces, work occurring inside buildings, area is not used by species), and
- if discharge-related activities will include the establishment of structures (including, but not limited to, infiltration ponds and other controls) or any related disturbances, these structures and/or disturbances will be sited in areas that will not result in isolation or degradation of nesting, breeding, or foraging habitat or other habitat functions for listed animal species (or their designated critical habitat), and will avoid the destruction of native vegetation (including listed plant species).

☒ If vegetation removal (e.g., brush clearing) or other similar activities will occur, no terrestrial listed species that use these areas for habitat would be expected to be present during vegetation removal.

If all the above are true, you can conclude that your discharge-related activities will have no likely adverse effects, and:

- If there are any aquatic or aquatic-dependent species and/or critical habitat in your action area, you must skip to Section V, *Evaluation of Discharge Effects,* below.
- If there are no aquatic or aquatic-dependent species you may skip to Section VI and verify that your activities will have no likely adverse effects. You must submit this form to EPA as specified in Section VII of this form. You may select criterion C on your NOI and may submit your NOI for permit coverage 30 days after you have submitted this completed form. You must also provide a description of the basis for the criterion you selected on your NOI form, **including the species and critical habitat list(s)**, and any other documentation supporting your eligibility. You must also include this completed *Criterion C Eligibility Form* in your SWPPP.
- **If any of the above are not true**, you cannot conclude that your discharge-related activities will have no likely adverse effects. You must complete the rest of this form (if applicable), and must submit the form to EPA for assistance in determining your eligibility for coverage.

SECTION V. EVALUATION OF DISCHARGE EFFECTS

Note: *You are only required to fill out this section if your facility's action area includes aquatic and/or aquatic-dependent species and/or their critical habitat.*

In this section, you will evaluate the likelihood of adverse effects from your facility's discharges. The scope of effects to consider will vary with each facility and species/critical habitat characteristics. The following are examples of discharge effects you should consider:

- *Hydrological Effects.* Stormwater discharges may adversely affect receiving waters from pollutant parameters such as turbidity, temperature, salinity, or pH. These effects will vary with the amount of stormwater discharged and the volume and condition of the receiving water. Where a stormwater discharge constitutes a minute portion of the total volume of the receiving water, adverse hydrological effects are less likely.
- *Toxicity of Pollutants.* Pollutants in stormwater may have toxic effects on listed species and may adversely affect critical habitat. Exceedances of benchmarks, effluent limitation guidelines, or state or tribal water quality requirements may be indicative of potential adverse effects on listed species or critical habitat. However, some listed species may be adversely affected at pollutant concentrations below benchmarks, effluent limitation guidelines, and state or tribal water quality standards. In addition, stormwater pollutants identified in Part 5.2.3.2 of your SWPPP, but not monitored as benchmarks or effluent limitation guidelines, may also adversely affect listed species and critical habitat.

As these effects are difficult to analyze for listed species, their prey, habitat, and designated critical habitat, this form helps you to analyze your discharges and make a determination of whether your discharges will have likely adverse effects and whether there are any additional controls you can implement to ensure no likely adverse effects.

A. Evaluation of Pollutants and Controls to Avoid Adverse Effects. In this section, you must document all of your pollutant sources and pollutants expected to be discharged in stormwater. You must also document the controls you will implement to avoid adverse effects on listed aquatic and aquatic-dependent species. You must include specific details about the expected effectiveness of the controls in avoiding adverse effects to the listed aquatic-and aquatic-dependent species. Attach additional pages if needed.

Potential Pollutant Source	Potential Pollutants	**Controls to Avoid Adverse Effects on Listed Aquatic and Aquatic-Dependent Species.** Include information supporting why the control(s) will ensure no adverse effects, including any data you have about the effectiveness of the control(s) in reducing pollutant concentrations. You may also attach photos of your controls to this form.
e.g., vehicle and equipment fueling	**e.g.,** • **Oil & grease** • **Diesel** • **Gasoline** • **TSS** • **Antifreeze**	**e.g.,** • **Fueling operators (including the transfer of fuel from tank trucks) will be conducted on an impervious or contained pad or under cover** • **Drip pans will be used where leaks or spills of fuel can occur and where making and breaking hose connections** • **Spill kit will be kept on-site in close proximity to potential spill areas** • **Any spills will be cleaned-up immediately using dry clean up methods** • **Stormwater runoff will be diverted around fueling areas using diversion dikes and curbing**

Potential Pollutant Source	Potential Pollutants	Controls to Avoid Adverse Effects on Listed Aquatic and Aquatic-Dependent Species.
Sector K (SWMUs, HWMUs)	Metals, ammonia, and chemical oxygen demand (COD).	Routine and comprehensive inspections, visual inspections of any discharge; erosion controls, including vegetative stabilization. Spill response plan and personnel trained in spill response. Catchment basins, substantial curbs or berms around facilities. Training in handling and storing chemicals.
Sector J, sub sector J-1	No outfall	The following design elements at the borrow pit site prevent stormwater run-off: The site is excavated below grade, it is surrounded by a berm and a catchment basin has been constructed on the down-stream side of the site. Routine and comprehensive inspections are conducted.
Sector L, one landfill site	Total Suspended Solids (TSS)	Routine and comprehensive inspections, visual inspections; monitoring for soil disturbance, erosion and other disturbances to established vegetation.
Sector N, recycling sites	Metals, COD, TSS	Routine and comprehensive inspections, visual inspections, spill response plan and spill kits kept on site and personnel trained in spill response.
Sector P, Fleet Services	Oil and grease, Diesel, Gasoline, Antifreeze, Solvents	Majority of activities occur indoors or under cover. Routine and comprehensive inspections, visual inspection of any discharge. Spill response plan and spill kits kept on site in proximity to areas of potential spills. Personnel trained in spill response. Substantial curbs around facilities. Training in handling, storing and tracking chemicals. Secondary containment and drip plans in appropriate locations.

Potential Pollutant Source	Potential Pollutants	Controls to Avoid Adverse Effects on Listed Aquatic and Aquatic-Dependent Species.
Sector AC, Electronic and electrical equipment and components, photographic and optical products manufacturing	no MSGP parameters	Routine and comprehensive inspections, outdoor exposure limited to loading and unloading at point of entry. Spill kits and spill response plan developed for each site. Trained spill response teams on site. Personnel training. Visual inspections of any discharges.

☐ Check if you are not able to make a preliminary determination that any of your pollutants will be controlled to a level necessary to avoid adverse effects on aquatic and/or aquatic-dependent listed species and their designated critical habitat. You must check in Section VI that you are unable to make a determination of no likely adverse effects, and must complete the rest of the form. You must submit your completed form to EPA for assistance in determining your eligibility for coverage.

B. Analysis of Effects Based on Past Monitoring Data. Select which of the following applies to your facility:

☐ I have no previous monitoring data for my facility because there are no applicable monitoring requirements for my facility's sector(s).

☐ I have no previous monitoring data for my facility because I am a new discharger or a new source, but I am subject to monitoring under the 2015 MSGP. You must provide information to support a conclusion that your facility's discharges are not expected to result in benchmark or numeric effluent limit exceedances that will adversely affect listed species or their critical habitat:

☐ My facility has not had any exceedances under the 2008 MSGP of any required benchmark(s) or numeric effluent limits.

☒ My facility has had exceedances of one or more benchmark(s) or numeric effluent limits under the 2008 MSGP, but I have addressed them during my coverage under the 2008 MSGP, or in my evaluation of controls to avoid adverse effects in (A) above. Describe all actions (including specific controls) that you will implement to ensure that the pollutants in your discharge(s) will not result in likely adverse effects from future exceedances.

Stormwater monitoring data indicated benchmark exceedances (since 9/28/2010) at Discharge Point SP-11 for cadmium, silver and cyanide. Erosion and sediment controls were necessary to prevent sediment transport from the TA-IV Escarpment slope. In 2010, controls were installed and effective in lowering the concentration of pollutants, but were damaged in 2013 monsoon rains. In January 2015, rock check dams and a sediment basin were installed along the Escarpment to reduce sediment-laden runoff and prevent benchmark exceedances. Rock check dams will eventually be replaced or reinforced by permanent stabilization measures on the Escarpment. Planning for these measures is currently in the initial stages. SP-11 was removed for installation of the basin. Samples are now collected near the outlet of the basin (SWSP 44).

☐ Check if your facility has had exceedances of one or more benchmarks or numeric effluent limits under the 2008 MSGP and you have not been able to address them to avoid adverse effects from future exceedances, or if you are a new discharger or a new source but you are not sure if you can avoid adverse effects from possible exceedances. You must check in Section VI that you are unable to make a determination of no likely adverse effects. You must submit your completed form to EPA for assistance in determining your eligibility for coverage. You may not file your NOI for permit coverage until you are able to make a determination that your discharges will avoid adverse effects on listed species and designated critical habitat.

SECTION VI VERIFICATION OF PRELIMINARY EFFECTS DETERMINATION

Based on Steps I – V of this form, you must verify your preliminary determination of effects on listed species and designated critical habitat from your discharges and/or discharge-related activities :

☒ Following the applicable Steps in I – V above, I have made a preliminary determination that my discharges and/or discharge-related activities are not likely to adversely affect listed species and designated critical habitats.

☐ Following the applicable Steps in I – V above, I am **not** able to make a preliminary determination that my discharges and/or discharge-related activities are not likely to adversely affect listed species and designated critical habitats.

Certification Information

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete.

I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

First Name, Middle Initial, Last Name: Jeffrey P Harrell

Title: Manager

Signature: [signature] Date: 07/16/2015

E-mail: jeffrey.harrell@nnsa.doe.gov

SECTION VII CRITERION C ELIGIBILITY FORM SUBMISSION INSTRUCTIONS

You must submit this completed form to EPA at msgpesa@epa.gov, including any attachments and any additional information that demonstrates how you will avoid or eliminate adverse effects to listed species or critical habitat (e.g., specific controls you will implement to avoid or eliminate adverse effects). **Any missing or incomplete information may result in a delay of your coverage under the permit.**

If you have made a preliminary determination that your discharges and/or discharge-related activities are not likely to adversely affect listed species and critical habitat, this form must be submitted a minimum of 30 days prior to submitting your NOI for permit coverage under criterion C. Please note that during either the 30-day *Criterion C Eligibility Form* review period prior to your NOI submission, or within 30 days after your NOI submission and before you have been authorized for permit coverage, EPA may advise you that additional information is needed, or that there are additional measures you must implement to avoid likely adverse effects.

If you are unable to make a preliminary determination that your discharges and/or discharge-related activities are not likely to adversely affect listed species and critical habitat, this worksheet must be submitted to EPA, but you may not file your NOI for permit coverage until you have received a determination from EPA that your discharges and/or discharge-related activities are not likely to adversely affect listed species and critical habitat.

Attachment 1

Include a map **and a written description** of the action area of your facility, as required in Step 2. You may choose to include the map that is generated from the FWS' on-line mapping tool IPaC (the *Information, Planning, and Consultation System*) located at http://ecos.fws.gov/ipac/.

The written description of your action area that accompanies your action area map must explain your rationale for the extant of the action area drawn on your map. For example, your action area written description may look something like this:

> *The action area for the (name of your facility)'s stormwater discharges extends downstream from the outfall(s) in (name of receiving waterbody) (# of meters/feet/kilometers/miles). The downstream limit of the action area reflects the approximate distance at which the discharge waters and any pollutants would be expected to cause potential adverse effects to listed species and/or critical habitat because (insert rationale). The action area does/does not extend to the (name of receiving waterbody)'s confluence with (name of confluence waterbody) because (insert rationale).*

Note that you action area written description will be highly site-specific, depending on the expected effects of your facility's dishcarges and discharge-related activities, receiving waterbody characteristics, etc.

The ESA "action area" for Sandia National Laboratories (SNL) MSGP industrial sites encompasses the boundaries of Kirtland Air Force Base (KAFB), with the exception of the eastern foothills (Forest Service Withdrawn Area), and extends along the Tijeras Arroyo, to the outfall at the Rio Grande located 10 miles to the west-southwest. SNL industrial activities that are covered under the 2015 MSGP are located on SNL Technical Areas and permitted lands in various locations across KAFB (see Attachment 1 map). The action area is also illustrated in the "My Project" IPac Trust Resource Report included in Attachment 2 of this form.

Attachment 2

List or attach the listed species and critical habitat in your action area on this sheet, as required in Step 3. You must include a list for applicable listed NMFS and FWS species and critical habitat. If there are listed species and/or critical habitat for only one Service, you must include a statement confirming there are no listed species and/or critical habitat for the other Service. For FWS species, include the full printout from your IPaC query. *Note: If your Official Species List from the USFWS indicated no species or critical habitat were present in your action area, include the full consultation tracking code at the top of your Official Species List in your NOI submittal in the question "Provide a brief summary of the basis for the criterion selected in Appendix E." If an Official Species List was not available on IPaC, list the contact date and name of the Service staff with whom you corresponded to identify the existence of any USFWS species or critical habitat present in your action area.*

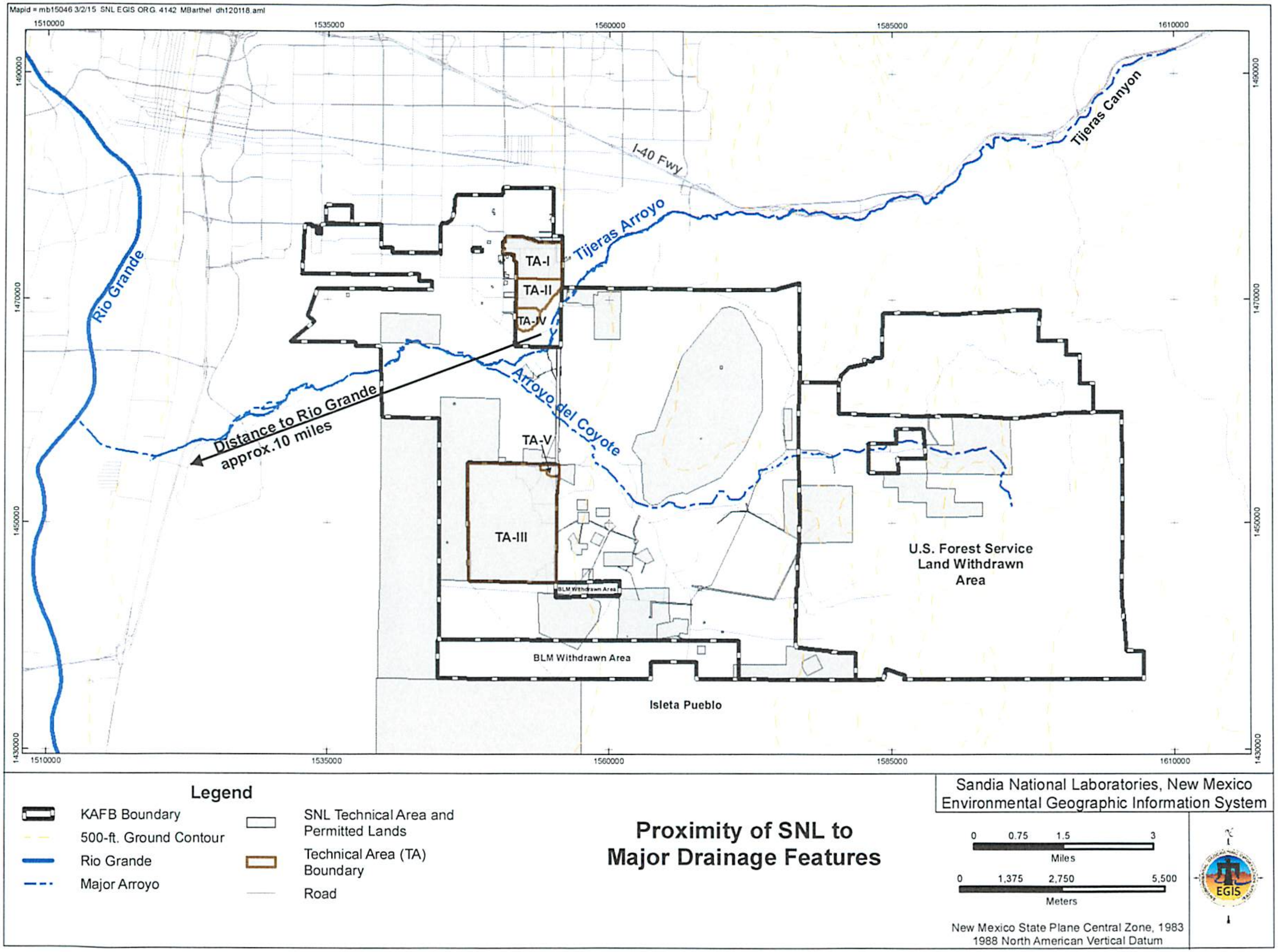
The following list of species and critical habitat are as listed in the USFWS "My Project" IPac Trust Resource Report generated on June 23, 2015 (attached) for the action area defined in Attachment 1 of this form :

From IPaC Query:
Species
Mexican Spotted Owl, Threatened
Southwestern Willow Flycatcher, Endangered
Sprague's Pipit, Candidate
Yellow-billed Cuckoo, Threatened
Rio Grande Silvery Minnow, Endangered
New Mexico Meadow Jumping Mouse, Endangered

Critical Habitats
Rio Grande Silvery Minnow Critical Habitat Final designated
Yellow-billed Cuckoo Critical Habitat Proposed

There are currently no federally listed threatened or endangered plant or animal species that occur on KAFB. Critical habitat for the action area defined in Attachment 1 is limited to the outfall where Tijeras Arroyo, an ephemeral arroyo, discharges into the Rio Grande. Because of the ephemeral flow of this arroyo, stormwater discharges and discharge-related activities are not likely to adversely affect the critical habitat. Although five threatened or endangered species are recognized as having the potential for occurring in the action area, it is not anticipated that stormwater discharges would impact these protected species. The surrounding areas have been extensively developed and in use for more than 50 years and it is unlikely that habitat for any species of concern is present within the project area or surrounding vicinity. The conclusion of no impact is based on previous experience in the area with similar projects. SNL maintains an extensive record of biological surveys that have been previously conducted. To ensure no impact, following completion of a NEPA review, the Environmental Programs Department at SNL conducts a survey prior to construction activities to determine the presence of nesting birds protected under the Migratory Bird Treaty Act and any other species that may have protection.

The NMFS does not apply to the SNL action area.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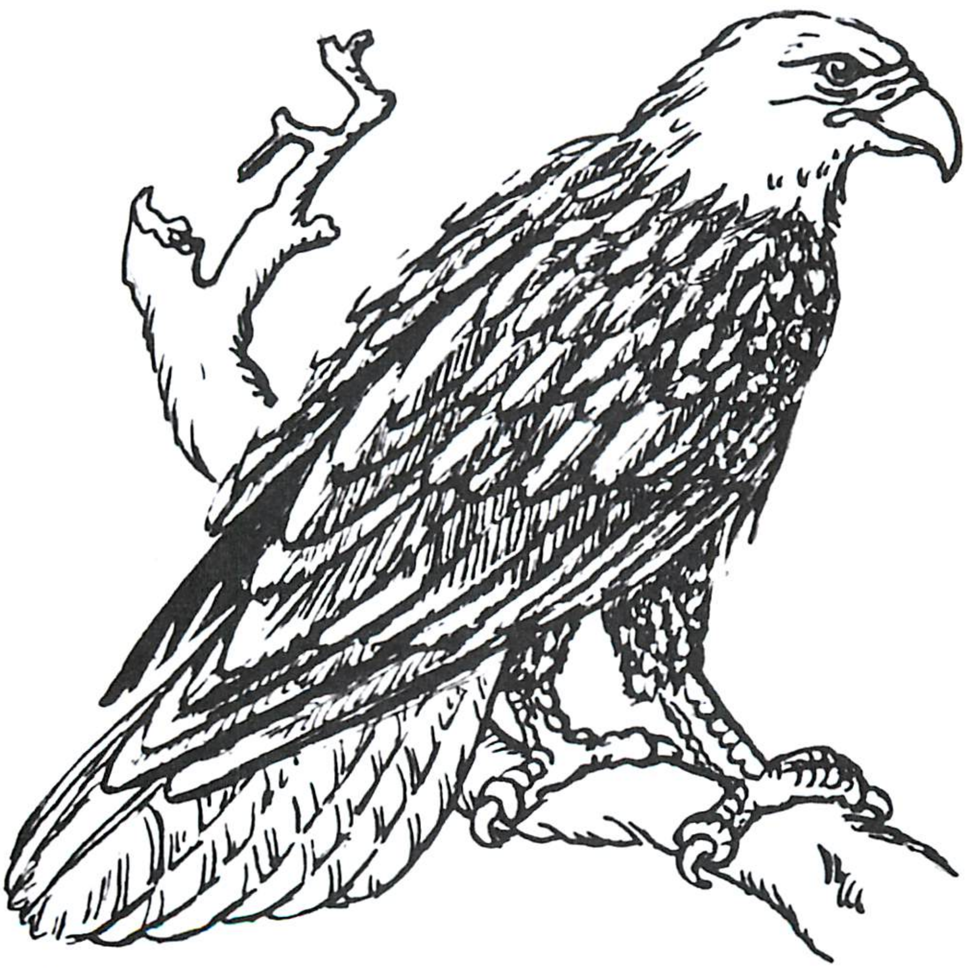
1510000
1535000
1560000
1585000
1610000
1490000
1470000
1450000
1430000
Rio Grande
I-40 Fwy
Tijeras Canyon
Tijeras Arroyo
TA-I
TA-II
TA-IV
Arroyo del Coyote
Distance to Rio Grande approx.10 miles
TA-V
TA-III
BLM Withdrawn Area
BLM Withdrawn Area
U.S. Forest Service Land Withdrawn Area
Isleta Pueblo
Legend
KAFB Boundary
500-ft. Ground Contour
Rio Grande
Major Arroyo
SNL Technical Area and Permitted Lands
Technical Area (TA) Boundary
Road
Proximity of SNL to Major Drainage Features
Sandia National Laboratories, New Mexico
Environmental Geographic Information System
0 0.75 1.5 3
Miles
0 1,375 2,750 5,500
Meters
New Mexico State Plane Central Zone, 1983
1988 North American Vertical Datum
EGIS

U.S. Fish & Wildlife Service

My project

IPaC Trust Resource Report

Generated June 29, 2015 11:42 AM MDT



US Fish & Wildlife Service

IPaC Trust Resource Report

Project Description

NAME

My project

PROJECT CODE

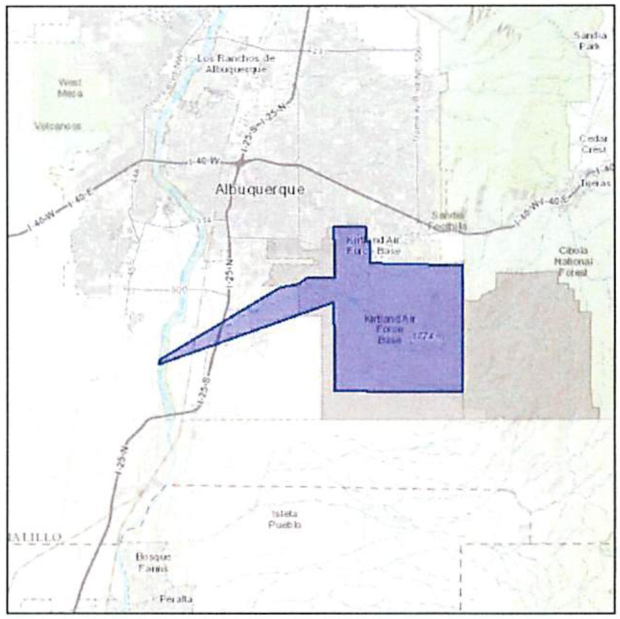
23EE4-JU7H5-GDRIP-G6PEM-AVTFCU

LOCATION

Bernalillo County, New Mexico

DESCRIPTION

No description provided



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 Endangered Species Program 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 Section 7 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.

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

Sprague's Pipit Anthus spragueii — Candidate

CRITICAL HABITAT
No critical habitat has been designated for this species.

https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B0GD

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

Fishes

Rio Grande Silvery Minnow Hybognathus amarus — Endangered

CRITICAL HABITAT
There is **final** critical habitat designated for this species.

https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=E07I

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.

Rio Grande Silvery Minnow Critical Habitat Final designated
https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=E07I#crithab

Yellow-billed Cuckoo Critical Habitat Proposed
https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B06R#crithab

Migratory Birds

Birds are protected by the Migratory Bird Treaty Act 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

Black-chinned Sparrow Spizella atrogularis — 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

Chestnut-collared Longspur Calcarius ornatus — Bird of conservation concern
Season: Wintering

Costa's Hummingbird Calypte costae — Bird of conservation concern
Season: Breeding

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

Gray Vireo Vireo vicinior — Bird of conservation concern
Season: Breeding
https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B0G5

Juniper Titmouse Baeolophus ridgwayi — Bird of conservation concern
Year-round

Lewis's Woodpecker Melanerpes lewis — Bird of conservation concern
Year-round

Loggerhead Shrike Lanius ludovicianus — Bird of conservation concern
Year-round
https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B0FY

Lucy's Warbler Vermivora luciae — Bird of conservation concern
Season: Breeding
https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B0DL

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

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

Red-headed Woodpecker Melanerpes erythrocephalus — Bird of conservation concern
Season: Breeding

Swainson's Hawk Buteo swainsoni — Bird of conservation concern
Season: Breeding
https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B070

Williamson's Sapsucker Sphyrapicus thyroideus — Bird of conservation concern
Seasons: Breeding, Wintering
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 National Wildlife Refuge 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.

Refuge data is unavailable at this time.

Wetlands

Impacts to NWI wetlands 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.S. Army Corps of Engineers District.

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.

Freshwater Pond

PUBH	6.54 acres
PUSC	0.374 acre

Riverine

R2UBH	1740.0 acres
R4SBC	32.3 acres

Appendix L-3

Criterion C Eligibility Form

Instructions:

In order to be eligible for coverage under criterion C, you must complete the following form and you must submit it to EPA following the instructions in Section VII a **minimum of 30 days prior to filing your NOI for permit coverage.** After you submit your form, you may be contacted by EPA with additional measures (e.g., additional stormwater controls or modifications to your discharge-related activities) that you must implement in order to ensure your eligibility under criterion C.

If after completing this worksheet you cannot make a determination that your discharges and discharge-related activities are not likely to adversely affect listed threatened or endangered species or designated critical habitat, you must submit this completed worksheet to EPA, and you may not file your NOI for permit coverage until you receive a determination from EPA that your discharges and/or discharge-related activities are not likely to adversely affect listed species and critical habitat.

Note: Much of the information needed for this form can be obtained from your draft SWPPP which will be needed when you file your NOI.

SECTION I. OPERATOR, FACILITY, AND SITE LOCATION INFORMATION.

1) **Operator Information**

   a) **Operator Name:** Sandia Corporation

   b) **Point of Contact**

      First Name: Kathie **Last Name:** Deal

      Phone Number: (505) 844-8503

      E-mail: kjdeal@sandia.gov

2) **Facility Information**

   a) **Facility Name:** Sandia National Laboratories/New Mexico

   b) **Check which of the following applies:**

      ☐ I am seeking coverage under the MSGP as a new discharger or as a new source

      ☒ I am seeking coverage under the MSGP as an existing discharger and my facility has modifications to its discharge characteristics (e.g., changes in discharge flow or area drained, different pollutants) and/or discharge-related activities (e.g., stormwater controls)

      Indicate the number of years the facility has been in operation: 65 years

      Provide your NPDES ID (i.e., permit tracking number) from your previous MSGP coverage: NMR05GQ63

      ☐ I am seeking coverage under the MSGP as an existing discharger and there are no modifications to my facility.

      Indicate the number of year the facility has been in operation: ________ years

      Provide your NPDES ID (i.e., permit tracking number) from your previous MSGP coverage: ______________

c) **Facility Address:**

Address 1: 1515 Eubank Blvd. SE

Address 2: ______

City: Albuquerque **State:** NM **Zip Code:** 87123

d) **Identify the primary industrial sector to be covered under the 2015 MSGP:**

SIC Code ---- or Primary Activity Code HZ

Sector K and Subsector K1

e) **Identify the sectors of any co-located activities to be covered under the 201r MSGP:**

Sector J Subsector J1

Sector K Subsector K1

Sector L Subsector L1

Sector N Subsector N1, N2

Sector P Subsector P1

Sector AC Subsector AC1

f) **Estimated area of industrial activity exposed to stormwater:** 976 **acres**

g) **Provide a general description of the industrial activities that are taking place at this facility:**

Sandia National Laboratories (SNL) is engaged in research and development of nonnuclear components of weapons systems, energy projects, and other programs in the national interest. SNL management encourages and seeks partnerships with appropriate U.S. industry and government groups to collaborate on emerging technologies that support the SNL mission. SNL also develops new technologies in non-military areas, covering a broad spectrum of activities and new emerging technologies in areas such as microelectronics and electronic products, computer systems, materials studies, robotics, microelectromechanical systems, biomedical engineering, and solar, wind, and fusion energy research.

3) **Receiving Waters Information**

List all the stormwater outfalls from your facility.				**For each outfall, provide the following receiving water information:**	
Outfall ID	**Design Capacity (if known)**	**Latitude (decimal degrees)**	**Longitude (decimal degrees)**	**Name of the receiving water that receives stormwater from the outfall and/or from the MS4 that the outfall discharges to**	**Type of Waterbody (e.g., lake, pond, river/stream/creek, estuarine/marine water)**
SWSP 17	unknown	35.000	106.559	Unnamed Playa Lake	closed playa lake
SWSP 22	unknown	34.959	106.475	Unnamed Playa Lake	closed playa lake
SWSP 32	unknown	34.976	106.507	Unnamed Playa Lake	closed playa lake
SWSP 40	unknown	35.044	106.544	Tijeras Arroyo	ephemeral arroyo
SWSP 41	unknown	35.041	106.550	Tijeras Arroyo	ephemeral arroyo

Section 3 Table (p. 1 of 4), table continued on next page:

Additional information page (1 of 3) for Page 2, Section 3 Table. Receiving Waters Information only - refer to original Page 2 for all other entries.

c) **Facility A**

Address 1: ______________________________

Address 2: ______________________________

City: ____________________ **State:** ______ **Zip Code:** ______________

d) **Identify the primary industrial sector to be covered under the 2015 MSGP:**

SIC Code _____ or Primary Activity Code _____

Sector ______ and Subsector ______

e) **Identify the sectors of any co-located activities to be covered under the 201r MSGP:**

Sector ______ Subsector ______

Sector ______ Subsector ______

Sector ______ Subsector ______

Sector ______ Subsector ______

Sector ______ Subsector ______

Sector ______ Subsector ______

f) **Estimated area of industrial activity exposed to stormwater:** ______________ **acres**

g) **Provide a general description of the industrial activities that are taking place at this facility:**

3) **Receiving Waters Information**

List all the stormwater outfalls from your facility.				**For each outfall, provide the following receiving water information:**	
Outfall ID	**Design Capacity (if known)**	**Latitude (decimal degrees)**	**Longitude (decimal degrees)**	**Name of the receiving water that receives stormwater from the outfall and/or from the MS4 that the outfall discharges to**	**Type of Waterbody (e.g., lake, pond, river/stream/creek, estuarine/marine water)**
SWSP 42	unknown	35.041	106.544	Tijeras Arroyo via SNL MS4	ephemeral arroyo
SWSP 43	unknown	35.002	106.468	Tijeras Arroyo via Arroyo de Coyote	ephemeral arroyo
SWSP 44	unknown	35.03	106.544	Tijeras Arroyo	ephemeral arroyo
SWSP 45	unknown	34.993	106.546	Unnamed Playa Lake	closed playa lake
SWSP 46	unknown	34.987	106.553	Unnamed Playa Lake	closed playa lake

Section 3 Table (pg. 2 of 4), table continued on next page:

Additional information page (2 of 3) for Page 2, Section 3 Table. Receiving Waters Information only -refer to original Page 2 for all other entries.

c) **Facility Addr**

Address 1: ______________________________

Address 2: ______________________________

City: ____________ **State:** ______ **Zip Code:** ____________

d) **Identify the primary industrial sector to be covered under the 2015 MSGP:**

SIC Code _____ or Primary Activity Code _____

Sector ______ and Subsector _______

e) **Identify the sectors of any co-located activities to be covered under the 201r MSGP:**

Sector ______ Subsector ______

Sector ______ Subsector ______

Sector ______ Subsector ______

Sector ______ Subsector ______

Sector ______ Subsector ______

Sector ______ Subsector ______

f) **Estimated area of industrial activity exposed to stormwater:** ____________ **acres**

g) **Provide a general description of the industrial activities that are taking place at this facility:**

3) **Receiving Waters Information**

List all the stormwater outfalls from your facility.				For each outfall, provide the following receiving water information:	
Outfall ID	**Design Capacity (if known)**	**Latitude (decimal degrees)**	**Longitude (decimal degrees)**	**Name of the receiving water that receives stormwater from the outfall and/or from the MS4 that the outfall discharges to**	**Type of Waterbody (e.g., lake, pond, river/stream/creek, estuarine/marine water)**
SWSP 47	unknown	34.992	106.544	Unnamed Playa Lake	Unnamed Playa Lake
SWSP 48	unknown	34.998	106.544	Indirectly (overland flow) to Tijeras Arroyo	ephemeral arroyo
SWSP 49	unknown	34.971	106.539	Unnamed Playa Lake	Unnamed Playa Lake
SWSP 51	unknown	35.000	106.486	Tijeras Arroyo via Arroyo de Coyote, ephemeral arroyos	ephemeral arroyos
SWSP 52	unknown	34.998	106.536	Indirectly (overland flow) to Tijeras Arroyo	ephemeral arroyo

Section 3 Table (pg. 3 of 4), table continued on next page:

Additional information page (3 of 3) for Page 2, Section 3 Table. Receiving Waters Information only -refer to original Page 2 for all other entries.

c) **Facility Addr**

Address 1: ______

Address 2: ______

City: ______ **State:** ______ **Zip Code:** ______

d) **Identify the primary industrial sector to be covered under the 2015 MSGP:**

SIC Code ______ or Primary Activity Code ______

Sector ______ and Subsector ______

e) **Identify the sectors of any co-located activities to be covered under the 201r MSGP:**

Sector ______ Subsector ______

Sector ______ Subsector ______

Sector ______ Subsector ______

Sector ______ Subsector ______

Sector ______ Subsector ______

Sector ______ Subsector ______

f) **Estimated area of industrial activity exposed to stormwater:** ______ **acres**

g) **Provide a general description of the industrial activities that are taking place at this facility:**

3) **Receiving Waters Information**

List all the stormwater outfalls from your facility.				For each outfall, provide the following receiving water information:	
Outfall ID	**Design Capacity (if known)**	**Latitude (decimal degrees)**	**Longitude (decimal degrees)**	**Name of the receiving water that receives stormwater from the outfall and/or from the MS4 that the outfall discharges to**	**Type of Waterbody (e.g., lake, pond, river/stream/creek, estuarine/marine water)**
Fleet Services	unknown	35.053	106.542	Tijeras Arroyo	ephemeral arroyo
AMPL TA I	unknown	35.051	106.542	Tijeras Arroyo via SNL MS4	ephemeral arroyo
NGF TA I	unknown	35.049	106.540	Tijeras Arroyo via SNL MS4	ephemeral arroyo
SWSP 08	unknown	35.985	106.536	Unnamed Playa Lake	closed playa lake
		___.____	___.____		

Section 3 Table (pg. 4 of 4)

SECTION II. ACTION AREA

Ensure that your action area is described in Attachment 1, as required in Step 2.

SECTION III. LISTED SPECIES AND CRITICAL HABITAT LIST

Ensure that the listed species and critical habitat list is included in Attachment 2, as required in Step 3.

Review your species list in Attachment 2, choose one of the following three statements, and follow the corresponding instructions:

> ***Note:*** For the purposes of this permit, "terrestrial species" would not include animal or plant species that 1) spends any portion of its life cycle in a waterbody or wetland, or 2) if an animal, depends on prey or habitat that occurs in a waterbody or wetland. For example, shorebirds, wading birds, amphibians, and certain reptiles would not be considered terrestrial species under this definition. Please also be aware that some terrestrial animals (e.g., certain insects, amphibians) may have an aquatic egg or larval/juvenile phase.

☐ The species list includes only terrestrial species and/or their designated critical habitat. No aquatic or aquatic-dependent species or their critical habitat are present in the action area. **You may skip to Section IV of this form. You are not required to fill out Section V.**

☐ The species list includes only aquatic and/or aquatic-dependent species and/or their designated critical habitat. No terrestrial species or their critical habitat are present in the action area. **You may skip to Section V of this form and are not required to fill out Section IV.**

☒ The species list includes both terrestrial and aquatic or aquatic-dependent species and/or their designated critical habitat. **You must fill out both Sections IV and V of this form.**

SECTION IV. EVALUATION OF DISCHARGE-RELATED ACTIVITIES EFFECTS

Note: You are only required to fill out this section if your facility's action area contains terrestrial species and/or their designated critical habitat. If your action area only contains aquatic and/or aquatic-dependent species and/or their designated critical habitat, you can skip directly to Section V.

Most of the potential effects related to coverage under the MSGP are assumed to occur to aquatic and/or aquatic-dependent species. However, in some cases, potential effects to terrestrial species and/or their critical habitat should be considered as well from any discharge-related activities that occur during coverage under the MSGP. Examples of discharge-related activities that could have potential effects on listed terrestrial species or their critical habitat include the storage of materials and land disturbances associated with stormwater management-related activities (e.g., the installation or placement of stormwater control measures).

A. Select the applicable statement(s) below and follow the corresponding instructions:

☐ There are no discharge-related activities that are planned to occur during my coverage under the MSGP. You can conclude that your discharge-related activities will have no likely adverse effects, and:

- If there are any aquatic or aquatic-dependent species and/or their critical habitat in your action area, you must skip to Section V, *Evaluation of Discharge Effects*, below.
- If there are no aquatic or aquatic-dependent species you may skip to Section VI and verify that your activities will have no likely adverse effects. You must submit this form to EPA as specified in Section VII of this form. You may select criterion C on your NOI form and may submit your NOI for permit coverage 30 days after you have submitted this *Criterion C Eligibility Form*. You must also provide a description of the basis for the criterion you selected on your NOI form, **including the species and critical habitat list(s) in your action area**, as well as any other documentation supporting your eligibility. You must also include this completed *Criterion C Eligiblity Form* in your SWPPP.

☒ There are discharge-related activities planned as part of the proposal. Describe your discharge-related activities in the following box and continue to (b) below.

Describe discharge-related activities:

Outfalls at industrial activity areas with potential stormwater discharges are listed in Section 1.3. The majority of the industrial activity areas with potential stormwater discharges are covered under Sector K of the MSGP, including Solid Waste Management Units (SWMUs) and Hazardous Waste Management Units (HWMUs). Sector N recycling sites and one Sector L landfill also have potential stormwater discharges covered under the 2015 MSGP. More details on activities will be included in the SNL 2015 MSGP SWPPP.

B. In order to ensure any discharge-related activities will have no likely adverse effects on listed species and/or their designated critical habitat, you must certify that all the following are true:

☒ Discharge-related activities will occur:

- on previously cleared/developed areas of the site where maintenance and operation of the facility are currently occurring or where existing conditions of the area(s) in which the discharge-related activities will occur precludes its use by listed species (e.g., work on existing impervious surfaces, work occurring inside buildings, area is not used by species), and
- if discharge-related activities will include the establishment of structures (including, but not limited to, infiltration ponds and other controls) or any related disturbances, these structures and/or disturbances will be sited in areas that will not result in isolation or degradation of nesting, breeding, or foraging habitat or other habitat functions for listed animal species (or their designated critical habitat), and will avoid the destruction of native vegetation (including listed plant species).

☒ If vegetation removal (e.g., brush clearing) or other similar activities will occur, no terrestrial listed species that use these areas for habitat would be expected to be present during vegetation removal.

If all the above are true, you can conclude that your discharge-related activities will have no likely adverse effects, and:

- If there are any aquatic or aquatic-dependent species and/or critical habitat in your action area, you must skip to Section V, *Evaluation of Discharge Effects,* below.
- If there are no aquatic or aquatic-dependent species you may skip to Section VI and verify that your activities will have no likely adverse effects. You must submit this form to EPA as specified in Section VII of this form. You may select criterion C on your NOI and may submit your NOI for permit coverage 30 days after you have submitted this completed form. You must also provide a description of the basis for the criterion you selected on your NOI form, **including the species and critical habitat list(s)**, and any other documentation supporting your eligibility. You must also include this completed *Criterion C Eligibility Form* in your SWPPP.
- **If any of the above are not true**, you cannot conclude that your discharge-related activities will have no likely adverse effects. You must complete the rest of this form (if applicable), and must submit the form to EPA for assistance in determining your eligibility for coverage.

SECTION V. EVALUATION OF DISCHARGE EFFECTS

Note: *You are only required to fill out this section if your facility's action area includes aquatic and/or aquatic-dependent species and/or their critical habitat.*

In this section, you will evaluate the likelihood of adverse effects from your facility's discharges. The scope of effects to consider will vary with each facility and species/critical habitat characteristics. The following are examples of discharge effects you should consider:

- *Hydrological Effects.* Stormwater discharges may adversely affect receiving waters from pollutant parameters such as turbidity, temperature, salinity, or pH. These effects will vary with the amount of stormwater discharged and the volume and condition of the receiving water. Where a stormwater discharge constitutes a minute portion of the total volume of the receiving water, adverse hydrological effects are less likely.
- *Toxicity of Pollutants.* Pollutants in stormwater may have toxic effects on listed species and may adversely affect critical habitat. Exceedances of benchmarks, effluent limitation guidelines, or state or tribal water quality requirements may be indicative of potential adverse effects on listed species or critical habitat. However, some listed species may be adversely affected at pollutant concentrations below benchmarks, effluent limitation guidelines, and state or tribal water quality standards. In addition, stormwater pollutants identified in Part 5.2.3.2 of your SWPPP, but not monitored as benchmarks or effluent limitation guidelines, may also adversely affect listed species and critical habitat.

As these effects are difficult to analyze for listed species, their prey, habitat, and designated critical habitat, this form helps you to analyze your discharges and make a determination of whether your discharges will have likely adverse effects and whether there are any additional controls you can implement to ensure no likely adverse effects.

A. Evaluation of Pollutants and Controls to Avoid Adverse Effects. In this section, you must document <u>all</u> of your pollutant sources and pollutants expected to be discharged in stormwater. You must also document the controls you will implement to avoid adverse effects on listed aquatic and aquatic-dependent species. You must include specific details about the expected effectiveness of the controls in avoiding adverse effects to the listed aquatic-and aquatic-dependent species. Attach additional pages if needed.		
Potential Pollutant Source	**Potential Pollutants**	**Controls to Avoid Adverse Effects on Listed Aquatic and Aquatic-Dependent Species.** Include information supporting why the control(s) will ensure no adverse effects, including any data you have about the effectiveness of the control(s) in reducing pollutant concentrations. You may also attach photos of your controls to this form.
e.g., vehicle and equipment fueling	**e.g.,** • **Oil & grease** • **Diesel** • **Gasoline** • **TSS** • **Antifreeze**	**e.g.,** • **Fueling operators (including the transfer of fuel from tank trucks) will be conducted on an impervious or contained pad or under cover** • **Drip pans will be used where leaks or spills of fuel can occur and where making and breaking hose connections** • **Spill kit will be kept on-site in close proximity to potential spill areas** • **Any spills will be cleaned-up immediately using dry clean up methods** • **Stormwater runoff will be diverted around fueling areas using diversion dikes and curbing**

Potential Pollutant Source	Potential Pollutants	Controls to Avoid Adverse Effects on Listed Aquatic and Aquatic-Dependent Species.
Sector K (SWMUs, HWMUs)	Metals, ammonia, and chemical oxygen demand (COD).	Routine and comprehensive inspections, visual inspections of any discharge; erosion controls, including vegetative stabilization. Spill response plan and personnel trained in spill response. Catchment basins, substantial curbs or berms around facilities. Training in handling and storing chemicals.
Sector J, sub sector J-1	No outfall	The following design elements at the borrow pit site prevent stormwater run-off: The site is excavated below grade, it is surrounded by a berm and a catchment basin has been constructed on the down-stream side of the site. Routine and comprehensive inspections are conducted.
Sector L, one landfill site	Total Suspended Solids (TSS)	Routine and comprehensive inspections, visual inspections; monitoring for soil disturbance, erosion and other disturbances to established vegetation.
Sector N, recycling sites	Metals, COD, TSS	Routine and comprehensive inspections, visual inspections, spill response plan and spill kits kept on site and personnel trained in spill response.
Sector P, Fleet Services	Oil and grease, Diesel, Gasoline, Antifreeze, Solvents	Majority of activities occur indoors or under cover. Routine and comprehensive inspections, visual inspection of any discharge. Spill response plan and spill kits kept on site in proximity to areas of potential spills. Personnel trained in spill response. Substantial curbs around facilities. Training in handling, storing and tracking chemicals. Secondary containment and drip plans in appropriate locations.

Potential Pollutant Source	Potential Pollutants	Controls to Avoid Adverse Effects on Listed Aquatic and Aquatic-Dependent Species.
Sector AC, Electronic and electrical equipment and components, photographic and optical products manufacturing	no MSGP parameters	Routine and comprehensive inspections, outdoor exposure limited to loading and unloading at point of entry. Spill kits and spill response plan developed for each site. Trained spill response teams on site. Personnel training. Visual inspections of any discharges.

☐ Check if you are not able to make a preliminary determination that any of your pollutants will be controlled to a level necessary to avoid adverse effects on aquatic and/or aquatic-dependent listed species and their designated critical habitat. You must check in Section VI that you are unable to make a determination of no likely adverse effects, and must complete the rest of the form. You must submit your completed form to EPA for assistance in determining your eligibility for coverage.

B. Analysis of Effects Based on Past Monitoring Data. Select which of the following applies to your facility:

☐ I have no previous monitoring data for my facility because there are no applicable monitoring requirements for my facility's sector(s).

☐ I have no previous monitoring data for my facility because I am a new discharger or a new source, but I am subject to monitoring under the 2015 MSGP. You must provide information to support a conclusion that your facility's discharges are not expected to result in benchmark or numeric effluent limit exceedances that will adversely affect listed species or their critical habitat:

☐ My facility has not had any exceedances under the 2008 MSGP of any required benchmark(s) or numeric effluent limits.

☒ My facility has had exceedances of one or more benchmark(s) or numeric effluent limits under the 2008 MSGP, but I have addressed them during my coverage under the 2008 MSGP, or in my evaluation of controls to avoid adverse effects in (A) above. Describe all actions (including specific controls) that you will implement to ensure that the pollutants in your discharge(s) will not result in likely adverse effects from future exceedances.

Stormwater monitoring data indicated benchmark exceedances (since 9/28/2010) at Discharge Point SP-11 for cadmium, silver and cyanide. Erosion and sediment controls were necessary to prevent sediment transport from the TA-IV Escarpment slope. In 2010, controls were installed and effective in lowering the concentration of pollutants, but were damaged in 2013 monsoon rains. In January 2015, rock check dams and a sediment basin were installed along the Escarpment to reduce sediment-laden runoff and prevent benchmark exceedances. Rock check dams will eventually be replaced or reinforced by permanent stabilization measures on the Escarpment. Planning for these measures is currently in the initial stages. SP-11 was removed for installation of the basin. Samples are now collected near the outlet of the basin (SWSP 44).

☐ Check if your facility has had exceedances of one or more benchmarks or numeric effluent limits under the 2008 MSGP and you have not been able to address them to avoid adverse effects from future exceedances, or if you are a new discharger or a new source but you are not sure if you can avoid adverse effects from possible exceedances. You must check in Section VI that you are unable to make a determination of no likely adverse effects. You must submit your completed form to EPA for assistance in determining your eligibility for coverage. You may not file your NOI for permit coverage until you are able to make a determination that your discharges will avoid adverse effects on listed species and designated critical habitat.

SECTION VI VERIFICATION OF PRELIMINARY EFFECTS DETERMINATION

Based on Steps I – V of this form, you must verify your preliminary determination of effects on listed species and designated critical habitat from your discharges and/or discharge-related activities :

☒ Following the applicable Steps in I – V above, I have made a preliminary determination that my discharges and/or discharge-related activities are not likely to adversely affect listed species and designated critical habitats.

☐ Following the applicable Steps in I – V above, I am **not** able to make a preliminary determination that my discharges and/or discharge-related activities are not likely to adversely affect listed species and designated critical habitats.

Certification Information

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete.

I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

First Name, Middle Initial, Last Name: Michael W Hazen

Title: Vice President

Signature: M. Hazen

Date: 07/14/2015

E-mail: mwhazen@sandia.gov

SECTION VII CRITERION C ELIGIBILITY FORM SUBMISSION INSTRUCTIONS

You must submit this completed form to EPA at msgpesa@epa.gov, including any attachments and any additional information that demonstrates how you will avoid or eliminate adverse effects to listed species or critical habitat (e.g., specific controls you will implement to avoid or eliminate adverse effects). **Any missing or incomplete information may result in a delay of your coverage under the permit**.

If you have made a preliminary determination that your discharges and/or discharge-related activities are not likely to adversely affect listed species and critical habitat, this form must be submitted a minimum of 30 days prior to submitting your NOI for permit coverage under criterion C. Please note that during either the 30-day *Criterion C Eligibility Form* review period prior to your NOI submission, or within 30 days after your NOI submission and before you have been authorized for permit coverage, EPA may advise you that additional information is needed, or that there are additional measures you must implement to avoid likely adverse effects.

If you are unable to make a preliminary determination that your discharges and/or discharge-related activities are not likely to adversely affect listed species and critical habitat, this worksheet must be submitted to EPA, but you may not file your NOI for permit coverage until you have received a determination from EPA that your discharges and/or discharge-related activities are not likely to adversely affect listed species and critical habitat.

Attachment 1

Include a map **and a written description** of the action area of your facility, as required in Step 2. You may choose to include the map that is generated from the FWS' on-line mapping tool IPaC (the *Information, Planning, and Consultation System*) located at http://ecos.fws.gov/ipac/.

The written description of your action area that accompanies your action area map must explain your rationale for the extant of the action area drawn on your map. For example, your action area written description may look something like this:

> *The action area for the (name of your facility)'s stormwater discharges extends downstream from the outfall(s) in (name of receiving waterbody) (# of meters/feet/kilometers/miles). The downstream limit of the action area reflects the approximate distance at which the discharge waters and any pollutants would be expected to cause potential adverse effects to listed species and/or critical habitat because (insert rationale). The action area does/does not extend to the (name of receiving waterbody)'s confluence with (name of confluence waterbody) because (insert rationale).*

Note that you action area written description will be highly site-specific, depending on the expected effects of your facility's dishcarges and discharge-related activities, receiving waterbody characteristics, etc.

The ESA "action area" for Sandia National Laboratories (SNL) MSGP industrial sites encompasses the boundaries of Kirtland Air Force Base (KAFB), with the exception of the eastern foothills (Forest Service Withdrawn Area), and extends along the Tijeras Arroyo, to the outfall at the Rio Grande located 10 miles to the west-southwest. SNL industrial activities that are covered under the 2015 MSGP are located on SNL Technical Areas and permitted lands in various locations across KAFB (see Attachment 1 map). The action area is also illustrated in the "My Project" IPac Trust Resource Report included in Attachment 2 of this form.

Attachment 2

List or attach the listed species and critical habitat in your action area on this sheet, as required in Step 3. You must include a list for applicable listed NMFS and FWS species and critical habitat. If there are listed species and/or critical habitat for only one Service, you must include a statement confirming there are no listed species and/or critical habitat for the other Service. For FWS species, include the full printout from your IPaC query. *Note: If your Official Species List from the USFWS indicated no species or critical habitat were present in your action area, include the full consultation tracking code at the top of your Official Species List in your NOI submittal in the question "Provide a brief summary of the basis for the criterion selected in Appendix E." If an Official Species List was not available on IPaC, list the contact date and name of the Service staff with whom you corresponded to identify the existence of any USFWS species or critical habitat present in your action area.*

The following list of species and critical habitat are as listed in the USFWS "My Project" IPac Trust Resource Report generated on June 23, 2015 (attached) for the action area defined in Attachment 1 of this form :

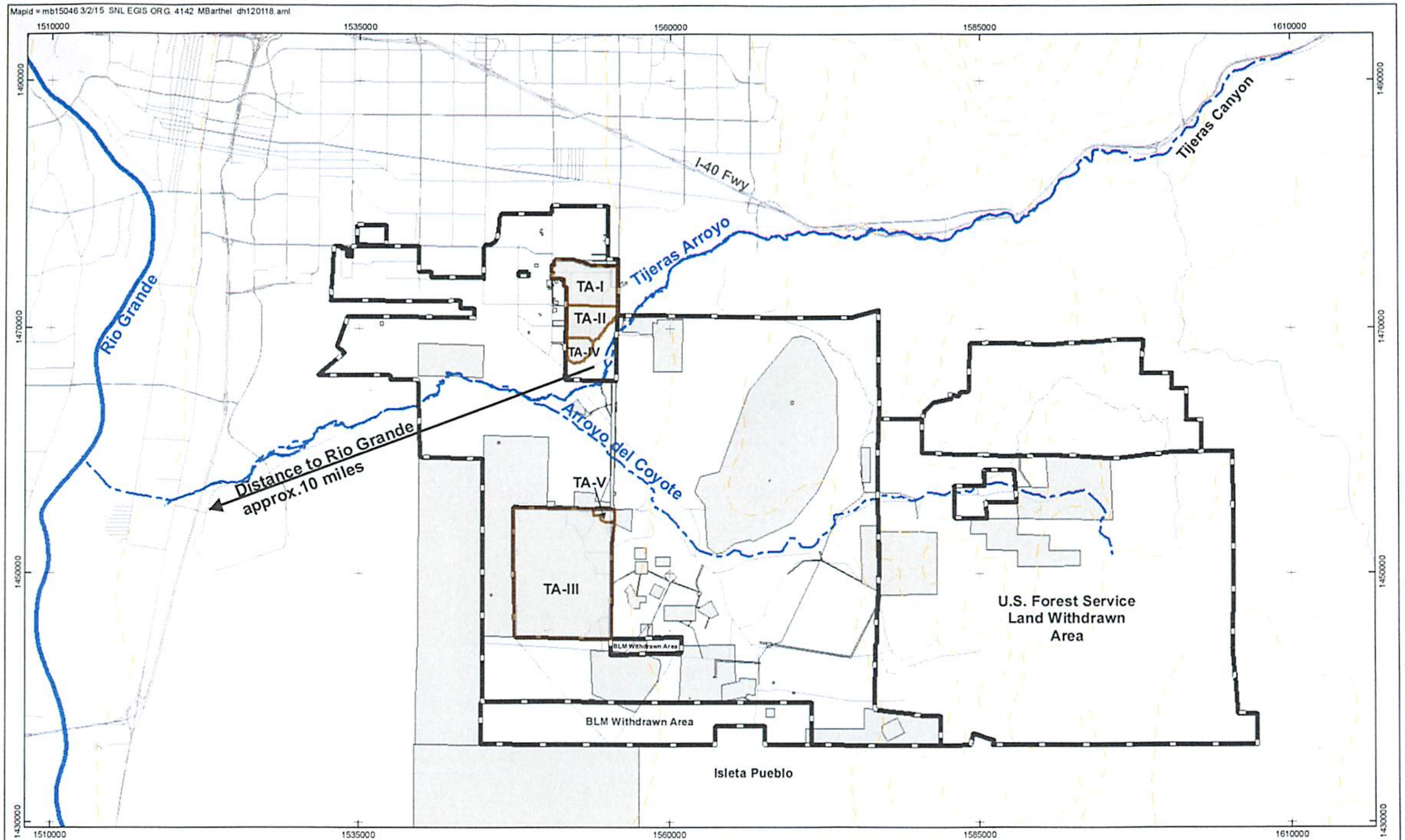
From IPaC Query:

Species
Mexican Spotted Owl, Threatened
Southwestern Willow Flycatcher, Endangered
Sprague's Pipit, Candidate
Yellow-billed Cuckoo, Threatened
Rio Grande Silvery Minnow, Endangered
New Mexico Meadow Jumping Mouse, Endangered

Critical Habitats
Rio Grande Silvery Minnow Critical Habitat Final designated
Yellow-billed Cuckoo Critical Habitat Proposed

There are currently no federally listed threatened or endangered plant or animal species that occur on KAFB. Critical habitat for the action area defined in Attachment 1 is limited to the outfall where Tijeras Arroyo, an ephemeral arroyo, discharges into the Rio Grande. Because of the ephemeral flow of this arroyo, stormwater discharges and discharge-related activities are not likely to adversely affect the critical habitat. Although five threatened or endangered species are recognized as having the potential for occurring in the action area, it is not anticipated that stormwater discharges would impact these protected species. The surrounding areas have been extensively developed and in use for more than 50 years and it is unlikely that habitat for any species of concern is present within the project area or surrounding vicinity. The conclusion of no impact is based on previous experience in the area with similar projects. SNL maintains an extensive record of biological surveys that have been previously conducted. To ensure no impact, following completion of a NEPA review, the Environmental Programs Department at SNL conducts a survey prior to construction activities to determine the presence of nesting birds protected under the Migratory Bird Treaty Act and any other species that may have protection.

The NMFS does not apply to the SNL action area.



Legend

- KAFB Boundary
- 500-ft. Ground Contour
- Rio Grande
- Major Arroyo
- SNL Technical Area and Permitted Lands
- Technical Area (TA) Boundary
- Road

Proximity of SNL to Major Drainage Features

Sandia National Laboratories, New Mexico
Environmental Geographic Information System

0 0.75 1.5 3
Miles

0 1,375 2,750 5,500
Meters

EGIS

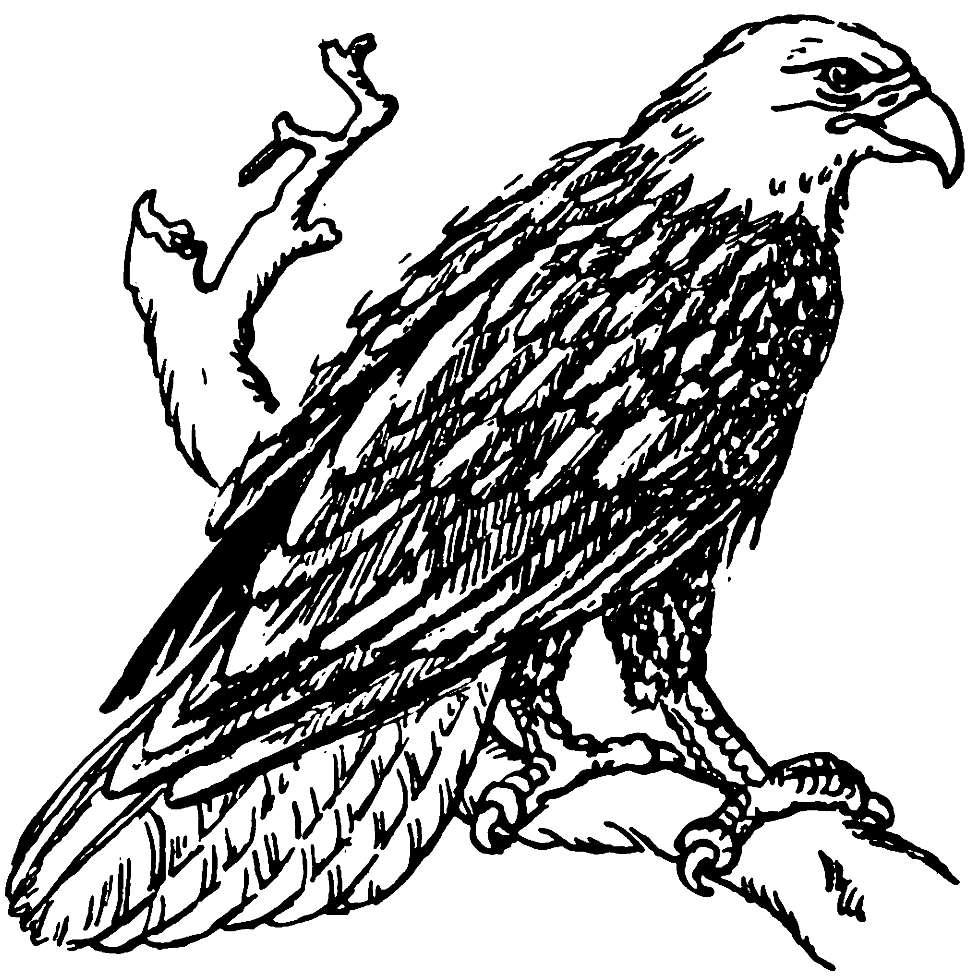
New Mexico State Plane Central Zone, 1983
1988 North American Vertical Datum

U.S. Fish & Wildlife Service

My project

IPaC Trust Resource Report

Generated June 29, 2015 11:42 AM MDT



US Fish & Wildlife Service

IPaC Trust Resource Report

Project Description

NAME

My project

PROJECT CODE

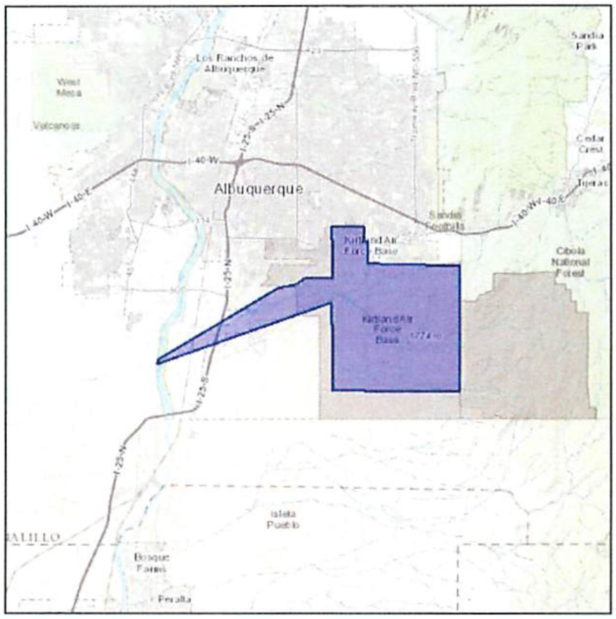
23EE4-JU7H5-GDRIP-G6PEM-AVTFCU

LOCATION

Bernalillo County, New Mexico

DESCRIPTION

No description provided



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 Endangered Species Program 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 Section 7 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.

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

Sprague's Pipit Anthus spragueii — Candidate

CRITICAL HABITAT
No critical habitat has been designated for this species.

https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B0GD

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

Fishes

Rio Grande Silvery Minnow Hybognathus amarus — **Endangered**

CRITICAL HABITAT
There is **final** critical habitat designated for this species.

https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=E07I

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.

Rio Grande Silvery Minnow Critical Habitat Final designated
https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=E07I#crithab

Yellow-billed Cuckoo Critical Habitat Proposed
https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B06R#crithab

Migratory Birds

Birds are protected by the Migratory Bird Treaty Act 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

Black-chinned Sparrow Spizella atrogularis — **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

Chestnut-collared Longspur Calcarius ornatus — **Bird of conservation concern**
Season: Wintering

Costa's Hummingbird Calypte costae — **Bird of conservation concern**
Season: Breeding

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

Gray Vireo Vireo vicinior — **Bird of conservation concern**
Season: Breeding
https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B0G5

Juniper Titmouse Baeolophus ridgwayi — **Bird of conservation concern**
Year-round

Lewis's Woodpecker Melanerpes lewis — **Bird of conservation concern**
Year-round

Loggerhead Shrike Lanius ludovicianus — **Bird of conservation concern**
Year-round
https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B0FY

Lucy's Warbler Vermivora luciae — **Bird of conservation concern**
Season: Breeding
https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B0DL

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

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

Red-headed Woodpecker Melanerpes erythrocephalus — **Bird of conservation concern**
Season: Breeding

Swainson's Hawk Buteo swainsoni — **Bird of conservation concern**
Season: Breeding
https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B070

Williamson's Sapsucker Sphyrapicus thyroideus — **Bird of conservation concern**
Seasons: Breeding, Wintering
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 National Wildlife Refuge 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.

Refuge data is unavailable at this time.

Wetlands

Impacts to NWI wetlands 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.S. Army Corps of Engineers District.

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.

Freshwater Pond

PUBH	6.54 acres
PUSC	0.374 acre

Riverine

R2UBH	1740.0 acres
R4SBC	32.3 acres

Appendix M: Delegation of Authority

No.	Description
M-1	DOE Delegation of Authority Memorandum
M-2	National Technology and Engineering Solutions of Sandia Duly Authorized Representative Memorandum to File, May 2017
M-3	National Technology and Engineering Solutions of Sandia Responsible Corporate Officer and Duly Authorized Representative Memorandum to File, October 2019

Appendix M-1

Department of Energy
National Nuclear Security Administration
Sandia Field Office
P. O. Box 5400
Albuquerque, NM 87185

MAY 04 2015

MEMORANDUM FOR ASSISTANT MANAGER FOR ENGINEERING

FROM: JEFFREY P. HARRELL
MANAGER

SUBJECT: Delegation of Authority to Sign Stormwater Pollution Prevention Plans, Site Inspections and Other Reports Required Under the National Pollutant Discharge Elimination System Multi-Sector General Permit for Industrial Activities and for Construction General Permits issued by the Environmental Protection Agency

This memorandum serves to designate the Assistant Manager (AM) for Engineering for signing Stormwater Pollution Prevention Plans (SWPPPs) and site inspection and other reports requested by the Director or required by the permits. This authorization cannot be used for signing a National Pollutant Discharge Elimination System permit application [e.g., Notice of Intent (NOI)] in accordance with 40 CFR 122.22.

The AM for Engineering is hereby authorized to sign SWPPPs, inspection report certifications, and other reports required by these permits. This authority may not be re-delegated by the AM for Engineering to another position. In the absence of the AM for Engineering, this authority may be officially delegated to an individual selected to serve in that position through the Department of Energy, National Nuclear Security Administration Human Resources process. By signing this authorization, I confirm that I meet the following requirements to make such a designation as set forth in Appendix I, subsection I.11.1.3 of the Construction General Permit [77 Fed Reg 12286] and Appendix B, subsection B.11.A.3 of the Multi-Sector General Permit [73 Fed Reg 56572].

> *For a municipality, State, Federal or other public agency: by either a principle executive officer or ranking elected official. For purposes of this section, a principle executive officer of a Federal agency includes (1) the chief executive officer of the agency, or (2) a senior executive officer having responsibility for the overall operations of a principle geographic unit of the agency (e.g. Regional Administrators of EPA).*

MAY 04 2015

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

Jeffrey P. Harrell

Manager

MAY 04 2015

Date

cc:
Shirley Mondy, SFO/OOM
623763

Appendix M-2

Sandia National Laboratories

Operated for the United States Department of Energy
by National Technology and Engineering Solutions
of Sandia, LLC.

Albuquerque, New Mexico 87185-0725
Livermore, California 94551-0969

date: MAY 2 5 2017

to: Duly Authorized Representative Memorandum to File

from: Jaime L. Moya (00600) jlmoya@sandia.gov

subject: ***Standing Duly Authorized Representatives for the National Pollutant Discharge Elimination System (NPDES) Multi-Sector General Permit (MSGP) for Industrial Activities***

reference: ***National Pollutant Discharge Elimination System Multi-Sector General Permit for Industrial Activities***

This memorandum to file applies to the NPDES MSGP and serves to identify the responsible corporate officer and all duly authorized representatives for certification of documents and regulatory deliverables certified on behalf of National Technology and Engineering Solutions of Sandia, LLC (NTESS), operator of Sandia National Laboratories. This letter satisfies the requirements of Appendix B, Subsection 11.B.1 and 11.B.2 of the MSGP; and pursuant to Appendix B, Subsection 11.B.3, a copy is to be maintained in the MSGP Stormwater Pollution Prevention Plan (SWPPP).

As Director of Environment, Safety and Health (ES&H), I meet the definition of responsible corporate officer provided in Appendix B, Subsection 11.A.1 of the MSGP:

For a corporation: By a responsible corporate officer. For the purpose of this subsection, a responsible corporate officer means: (i) a president, secretary, treasurer, or vice president of the corporation in charge of a principal business function, or any other person who performs similar policy- or decision-making functions for the corporation, or (ii) the manager of one or more manufacturing, production, or operating facilities, provided, the manager is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.

The following applications, documents, and deliverables are required to be certified by the Director of ES&H and are **not** duly authorized for certification:

- Notices of Intent (NOIs)

- Notices of Termination (NOTs)

Under the authority granted in Appendix B, Subsection 11.B of the MSGP, from the position of Director of ES&H; I hereby designate the positions of Senior Manager of Environmental Stewardship, Manager of Environmental Compliance and Monitoring, and Manager of Environmental Systems as duly authorized representatives. Pursuant to Appendix B, Subsection 11.B.2, this duly authorized representative designation applies to the position rather than the individual, and will apply to any future individual formally occupying the aforementioned positions. It does not apply to "acting" personnel.

Documents and deliverables that may be certified by the Director of ES&H and are duly authorized for certification by the Senior Manager of Environmental Stewardship, the Manager of Environmental Compliance and Monitoring, and the Manager of Environmental Systems include, but are not limited to:

- SWPPPs, including amendments and modifications
- Reporting forms
- Other compliance documents

Pursuant to Appendix B, Subsection 11.E of the MSGP, documents certified in accordance with Appendix B, Subsection 11.A and 11.B must include the following certification statement:

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

Appendix M-3

Sandia National Laboratories

Operated for the United States Department of Energy
by National Technology & Engineering Solutions
of Sandia, LLC.

Albuquerque, New Mexico 87185-0725
Livermore, California 94551-0969

date: OCT 30 2019

to: File

from: Johnathon Huff, (00600) jhuff@sandia.gov

subject: ***Update to National Technology and Engineering Solutions of Sandia, LLC (NTESS) Responsible Corporate Officer and Duly Authorized Representative for the National Pollutant Discharge Elimination System (NPDES) Multi-Sector General Permit (MSGP) for Stormwater Discharges Associated with Industrial Activities Permit Number NMR053122***

reference: National Pollutant Discharge Elimination System Multi-Sector General Permit for Stormwater Discharges Associated with Industrial Activities (MSGP)

This memorandum to file applies to the NPDES MSGP and serves to identify the responsible corporate officer and all duly authorized representatives for certification of documents and regulatory deliverables certified on behalf of NTESS (operator of Sandia National Laboratories). This letter satisfies the requirements of Parts 11.B.1 and 11.B.2 of Appendix B of the MSGP; and pursuant to Part 11.B.3, a copy is to be maintained with the MSGP SWPPP.

As Director of Environment, Safety and Health (ES&H), I meet the definition of responsible corporate officer provided in Part 11.A.1 of Appendix B of the MSGP:

For a corporation: By a responsible corporate officer. For the purpose of this subsection, a responsible corporate officer means: (i) a president, secretary, treasurer, or vice president of the corporation in charge of a principal business function, or any other person who performs similar policy- or decision-making functions for the corporation, or (ii) the manager of one or more manufacturing, production, or operating facilities, provided, the manager is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.

The following MSGP applications, documents and deliverables are required to be certified by the Director of ES&H and are **not** duly authorized for certification:

- Notices of Intent (NOIs)
- Notices of Termination (NOTs)

Under the authority granted in Part 11.B of Appendix B of the MSGP, from the position of Acting Director of ES&H; I hereby designate the positions of Senior Manager of Environmental Stewardship, Manager of Environmental Compliance and Monitoring, and Manager of Environmental Systems as duly authorized representatives. Pursuant to Part 11.B.2 of Appendix B, this duly authorized designation applies to the position rather than the individual and will apply to any future individual formally occupying the aforementioned positions.

Documents and deliverables that may be certified by the Director of ES&H and are duly authorized for certification by the Senior Manager of Environmental Stewardship, the Manager of Environmental Compliance and Monitoring, and the Manager of Environmental Systems include, but are not limited to:

- Stormwater Pollution Prevention Plans (SWPPPs), including Amendments and Modifications
- Reporting Forms (Annual Reports, Discharge Monitoring Reports, Inspection Reports, Corrective Action Reports, Visual Assessment Forms, etc.)
- Document Submissions

Pursuant to Part 11.E of Appendix B of the MSGP, documents certified in accordance with Parts 11.A or 11.B of Appendix B, must include the following certification statement:

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

Copy to:

Blumberg, Amy	(11300)	ajblumb@sandia.gov
Daniel, Carolyn	(00641)	cdaniel@sandia.gov
Huff, Johnathon	(00600)	jhuff@sandia.gov

Appendix N: Summary of Analytical Data from Previous Permit Term

No.	**Description**
N-1	Summary of Analytical Data from Previous Permit Term

Appendix N-1

2008 MSGP Data: Stormwater Parameters Exceeding EPA Benchmark Values
(2015 MSGP Part 5.2.3.6)

2008 MSGP SWMP[1]	Site/activity areas	Year/ Quarter[2]	Parameter	2008 MSGP Benchmark Mg/L	Analytical Results Mg/L	Average over 4 Quarters[3] Mg/L	Description of Control Measures
SWMP 10	Coyote Canyon sites	2011/3	COD	120	49		High concentrations of COD may be the result of a number of factors; short duration/high precipitation storm events typical of the local arid/semi-arid climate resulting in sediment load and delay in access and retrieval of samples due to safety and/or schedule constraints. For the 2015 sampling season, sample locations have been moved to an outfall at each site to better define pollutant sources and address site-specific control measures.
	SWMU 8/58,	2011/4	COD	120	306		
	Manzano Storage Bunkers	2013/2	COD	120	356		
		2013/4	COD	120	57.3		
				120		192	
		2014/2	COD	120	85.1		
		2014/1	COD	120	237		
SWMP 11	TA IV Escarpment	2010/1	Cadmium	0.0029	0.0111		A Corrective Action has been implemented from 2010 to present; including installation of large, engineered check dams and a 1.3 acre sediment basin along the escarpment. Additional phases of escarpment stabilization are part of future development plans. See previous MSGP Annual Reports and Appendix E, 2015 MSGP SWPPP for additional details on this corrective action.
	SWMUs 46, 233, 234	2010/3	Cadmium	0.0029	0.0121		
		2011/4	Cadmium	0.0029	0.0104		
		2012/3	Cadmium	0.0029	0.0046		
				0.0029		0.0096	
		2013/1	Cadmium	0.0029	0.0305		
		2013/2	Cadmium	0.0029	0.0136		
		2014/1	Cadmium	0.0029	0.0010		
		2014/2	Cadmium	0.0029	0.0182		
		2011/4	Silver	0.0065	0.0095		
		2012/3	Silver	0.0065	0.0034		
		2013/2	Silver	0.0065	0.0199		
		2013/1	Silver	0.0065	0.0277		
				0.0065		0.0150	
		2014/2	Silver	0.0065	0.0042		
		2014/1	Silver	0.0065	0.0020		
		2011/4	Cyanide	0.022	0.0773		
		2012/3	Cyanide	0.022	0.0206		

2008 MSGP SWMP[1]	Site/activity areas	Year/ Quarter[2]	Parameter	2008 MSGP Benchmark Mg/L	Analytical Results Mg/L	Average over 4 Quarters[3] Mg/L	Description of Control Measures
		2013/2	Cyanide	0.022	0.0338		
		2013/1	Cyanide	0.022	0.3170		
				0.022		0.1120	
		2014/2	Cyanide	0.022	0.0182		
		2014/1	Cyanide	0.022	0.1220		
SWMP 13	SWMU 28-2, Mine Site	2010/3	COD	120	18.5		High concentrations of COD may be the result of a number of factors; short duration/high precipitation storm events typical of the local arid/semi-arid climate resulting in sediment load and delay in access and retrieval of samples due to safety and/or schedule constraints. SWMU 28-2 is the most remote of the sample locations and not always accessible in wet weather.
		2010/4	COD	120	25.1		
		2011/3	COD	120	458		
		2013/4	COD	120	133		
		2014/2	COD	120	146		
		2014/3	COD	120	146		
				120		220.75	

[1] 2008 MSGP "SWMP, Stormwater Monitoring Point" equivalent to the 2015 MSGP "SWSP, Stormwater Sample Point"

[2] Samples collected before 2014 were based on a wet season defined as Periods 1-4, June-Sept respectively for the SNL/NM arid/semi-arid climate. In 2014, the wet season was changed to Periods 1-4, July through October respectively based on revised precipitation data (Section 5 2015 MSGP SWPPP).

[3] 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.