NOTICE OF INTENT

National Pollutant Discharge Elimination System Stormwater Program
MS4 Notice of Intent Format

Check box if you are submitting an individual NOI with one or more cooperative program elements. ☐

Check box if you are submitting an individual NOI with individual program elements only. ☒

Check box if your municipality or organization was previously covered under a MS4 permit. ☐

Please indicate the permittee class type: (Note: The definition of the permittee class type is located in Table 1 of Part I.B.1.)

☐ A (Phase I) ☐ B (Phase II) ☒ C (New Phase II) ☐ D (MS4s within Indian Lands)

I. MS4(s) Information

A. General Information

Department of Energy/Sandia National Laboratories (DOE/SNL)

Name of MS4

Karen | Agogino | Water Prg. Mgr.

Name of Contact Person (First) (Last) (Title)

(505) 845-6100 | karen.agogino@nnsa.doe.gov

Telephone (including area code) Email

U. S. Department of Energy, National Nuclear Security Administration, Sandia Field Office, P.O. Box 5400

Mailing Address

Albuquerque | NM | 87185

City State ZIP code

What size population does your MS4(s) serve? Approx. 9,500

The operator is: ☒ Federal ☐ State ☐ Tribal ☐ other public (check one)

B. In what urbanized area (UA), the MS4 is located in:

Farmington UA	☐
Santa Fe UA	☐
Albuquerque UA	☒
Los Lunas UA	☐
Las Cruces UA	☐
El Paso UA	☐

C. If not located in an UA, the MS4 is located in:

Core Municipality	
Indian Reservation/Pueblo	
County(ies)	
Cluster	

D. Is this a Phase I MS4? ☐ Yes ☒ No

Is this a Non-traditional MS4? ☒ Yes ☐ No

If so, Check one: ☐ Dept. of Transportation ☐ Flood Control Authority ☐ University

Other - Specify Federal Facility

What is the Latitude and longitude of the approximate center of the MS4?

Latitude 1553568.97 Longitude 1471853.93

II. Eligibility Determination

A. Receiving Water(s) Information

Does the MS4 discharge to any waters for which an TMDL applicable to discharges from the MS4 has been approved? (See Part I.A.5.f) ☒ Yes ☐ No ☐ NA

The receiving water(s) are:	*State or Tribal Segment ID*	*Approved TMDL*	*TMDL assigns WLA to MS4*
Tijeras Arroyo (SNL MS4 discharge point)	NM-9000.A_070	☐ Yes ☒ No	☐ Yes ☒ No
Middle Rio Grande (via Tijeras Arroyo)	NM-2105_50	☒ Yes ☐ No	☒ Yes ☐ No
		☐ Yes ☐ No	☐ Yes ☐ No
		☐ Yes ☐ No	☐ Yes ☐ No
		☐ Yes ☐ No	☐ Yes ☐ No

Is the MS4 (or a group of MS4s) seeking an alternative sub-measureable goal for TMDL controls under Part I.C.2.b.(i).(c).B? ☐ Yes ☒ No ☐ NA

If so, the MS4 or a group of MS4s must submit a preliminary proposal with the NOI to EPA and NMED (see Part I.B.2.k, Section B.2 in Appendix B and Part III.D.4). This proposal should include, but is not limited to, the elements included in Appendix B under Section B.2 of the permit

If the MS4 discharges to a receiving water for which EPA has approved or developed a TMDL, describe how the eligibility requirements of Part I.A.5.f and Part I.C.2. have been met :

DOE and Sandia will implement measures or controls that are consistent with the EPA-approved TMDL through the SWMP, as documented in the SWMP Plan.
TMDL requirements will be complied with through the development of targeted controls, measurable goals, monitoring, and reporting as described in Section 2.4 of the SWMP Plan.
Sandia has calculated a waste load allocation (WLA) based on the permit-assigned MS4 WLA, which will serve as a quantitative measurable goal.
DOE and Sandia will monitor all SNL MS4 inflows and outflows and determine waste loads for each. A total MS4 WL will be determined and evaluated against the WLA.

B. Is the MS4 partially located on Indian Country lands? ☐ Yes ☒ No

If so, the Indian Country Lands include the following: (NOTE: MS4s straddling State and Indian Country land boundaries will be issued authorization under all applicable permits and may have additional State or Tribal-specific requirements applicable to different areas of the MS4 - see Part VIII and initial notification under Part III.D.4)

C. Is the permit in compliance with the National Historic Preservation Act (NHPA)? ☒ Yes ☐ No

In order to be eligible for coverage under this permit, the MS4 operator must meet one of the following criteria: (Please check which criterion the MS4 is eligible under)

Criterion A: storm water discharges, allowable non-storm water discharges, and discharge-related activities do not affect a property that is listed or is eligible for listing on the National Register of Historic Places as maintained by the Secretary of the Interior. ☒

Criterion B: the applicant has obtained and is in compliance with a written agreement with the State Historic Preservation Officer (SHPO) or Tribal Historic Preservation Officer (THPO) (or equivalent tribal authority) that outlines all measures the MS4 operator will undertake to mitigate or prevent adverse effect to the historic property. ☐

Provide a brief summary of the basis for the criterion selected above:

There are no DOE-owned SNL properties listed on the National Register of Historic Places. The requirements of Part IV.U of the MS4 Permit do not apply to SNL.
There are no historic properties identified in the path of SNL's stormwater and allowable non-stormwater discharges or where construction activities are planned to install BMPs to control such discharges.
Construction and stormwater management/sampling activities proposed in the SWMP Plan are not anticipated to impact any known archaeological or cultural resources.
A NEPA review is conducted for every proposed disturbance to evaluate all necessary permitting actions, including those related to preservation of archaeological or cultural resources.

III. Preliminary Description of the Proposed Stormwater Program

As applicable, use Sections 1 through 8 below to describe the storm water management program (SWMP), including best management practices (BMPs) or storm water controls that will be implemented and the measurable goals for each of the storm water minimum control measures specified in Part I.D.5 of this permit, the month and year in which the MS4 operator will start and fully implement each of the minimum control measures or the frequency of the action, the name of the person(s) or position(s) responsible for implementing or coordinating the SWMP.

If the MS4 operator is participating in cooperative programs with other parties (or is relying on another governmental entity) to satisfy one or more permit obligations (see Part I.D.3), use the space provided under ***Cooperative Elements*** to identify the partners and briefly describe roles and responsibilities.

NOTE:

The space provided in the fields below (255 characters) should be used to briefly describe proposed BMPs and corresponding measurable goals. Individual boxes should be used to describe individual target activities. If additional space is required to describe target activities, the MS4(s) should attach such as information with the NOI using the format provided.

Section 1. Construction Site Stormwater Runoff Control – Proposed BMPS, Stormwater Controls, and Measurable Goals

1.1. Development of an ordinance or other regulatory mechanism as required in Part I.D.5.a.(ii)(a)

Sandia's Environmental Programs Department currently maintains Corporate Procedure ESH100.2.ENV.10: Management of Surface and Stormwater Discharges to address stormwater discharges at SNL.

Revisions to the procedure are in progress to meet all of the MS4 Permit requirements, and to specifically require compliance with the CGP, including the installation of erosion and sediment controls at construction sites.

Sandia can enforce corporate procedures with disciplinary action up to and including termination of employment. Enforcement of the SWMP will be addressed through the protocol discussed in Section 1.6 of the SWMP Plan.

DOE can enforce on Sandia through contract DE-AC04-94AL85000, which requires Sandia to comply with applicable Federal, State, and local laws and regulations.

Cooperative Elements

DOE (as owner of SNL) and Sandia (as operator of SNL) share responsibility for the SNL MS4. DOE and Sandia together will comply with all of the requirements of the MS4 Permit, but will do so independently of participation in a cooperative group.

1.2. Develop requirements and procedures as required in Part I.D.5.a.(ii)(b) through in Part I.D.5.a.(ii)(h)

DOE and Sandia currently comply with the CGP and the majority of the requirements of these Parts of the MS4 Permit. See Section 5.2.2.1 of the SWMP Plan for details.

DOE and Sandia have a process in place for educating personnel and construction contractors involved in the planning, review, permitting, and/or approval of construction activities. See Section 5.2.2.2 of the SWMP Plan for details.

In addition to maintaining a rigorous CGP process, DOE and Sandia will revise Corporate Procedure ESH.100.2. ENV10 to include all requirements of the MS4 Permit. See Section 5.2.2.3 of the SWMP Plan for details.

Cooperative Elements

DOE (as owner of SNL) and Sandia (as operator of SNL) share responsibility for the SNL MS4. DOE and Sandia together will comply with all of the requirements of the MS4 Permit, but will do so independently of participation in a cooperative group.

1.3. Annually conduct site inspections of 100 percent of all construction projects cumulatively disturbing one (1) or more acres as required in Part I.D.5.a.(iii)

Construction site inspections are routinely performed by the Sandia Stormwater Team in accordance with the CGP and SWPPP requirements.

100 percent of all construction projects cumulatively disturbing one or more acres within the MS4 jurisdiction will be inspected many times within a year.

When site inspections reveal necessary maintenance, repair or other problems with the site, corrective action reports are created and follow-up inspections are performed to document completion of corrective actions.

All projects are inspected at completion of construction, prior to filing a Notice of Termination, to verify proper final stabilization. See 5.2.3 of the SWMP Plan.

Cooperative Elements

DOE (as owner of SNL) and Sandia (as operator of SNL) share responsibility for the SNL MS4. DOE and Sandia together will comply with all of the requirements of the MS4 Permit, but will do so independently of participation in a cooperative group.

1.4. Coordinate with all departments and boards with jurisdiction over the planning, review, permitting, or approval of public and private construction projects/activities within the permit area as required in Part I.D.5.a.(iv)

Currently, when a construction SWPPP is developed, the Environmental Programs Department promotes coordination with many departments that have responsibilities associated with construction projects/ activities. See SWMP Plan Section 5.2.4.

As the SMWP evolves, the Stormwater Team identified in Section 1.7 of the SWMP Plan will expand to include subject matter experts and points of contacts in multiple organizations including Environmental and Facilities Programs.

Cooperative Elements

DOE (as owner of SNL) and Sandia (as operator of SNL) share responsibility for the SNL MS4. DOE and Sandia together will comply with all of the requirements of the MS4 Permit, but will do so independently of participation in a cooperative group.

1.5. Evaluation of GI/LID/Sustainable practices in site plan reviews as required in Part I.D.5.a.(v)

SNL buildings (new/renovations) must comply with the Guiding Principles for Federal Leadership in High Performance Sustainable Building. Over $5M, they must achieve the U.S. Green Building Council's certification of LEED Gold for New Construction.

DOE and Sandia currently review projects in the construction planning stages to demonstrate compliance GI/LID/Sustainable Practices.

A summary of the annual construction projects (one acre or more) that incorporated GI/LID/Sustainable Practices will be included with the SWMP Plan revisions associated with the Annual Report.

More details on the SNL's compliance with GI/LID/Sustainable Practices are included in Section 6 of the SWMP Plan.

Cooperative Elements

DOE (as owner of SNL) and Sandia (as operator of SNL) share responsibility for the SNL MS4. DOE and Sandia together will comply with all of the requirements of the MS4 Permit, but will do so independently of participation in a cooperative group.

1.6. Enhance the program to include program elements in Part I.D.5.a.(viii) through Part I.D.5.a.(x)

DOE and Sandia use stormwater educational material and training courses to educate personnel about how their job duties may impact stormwater quality.

Stormwater regulation is and will continue to be considered in the development and revision of construction guidelines and manuals at SNL.

Cooperative Elements

DOE (as owner of SNL) and Sandia (as operator of SNL) share responsibility for the SNL MS4. DOE and Sandia together will comply with all of the requirements of the MS4 Permit, but will do so independently of participation in a cooperative group.

1.7. Describe other proposed activities to address the Construction Site Stormwater Runoff Control Measure:

Although not required, in 2014 Sandia began requiring the installation of stormwater controls and pollution prevention measures to address the most critical pollutant sources at construction sites less than one acre in size.

Sediment controls for any storm drains or drop inlets within the boundary of the project area are required. Portable toilets must be secured to prevent tipping (e.g., stake with rebar or bolt to trailer).

Chemicals stored outdoors must be covered/containerized and on secondary containment to prevent contact with stormwater. Containers and trucks containing paint, concrete or other building products must be washed into an appropriate waste container.

Section 2. Post-Construction Stormwater Management in New Development and Redevelopment – Proposed BMPs, Stormwater Controls, and Measurable Goals

2.1. Development of strategies as required in Part I.D.5.b.(ii).(a)

A combination of structural and/or non-structural best management practices (BMPs) will be implemented to control pollutants in stormwater runoff on new development and redevelopment projects within the SNL MS4.

Details of the strategies are discussed in Section 6.2 of the SWMP Plan.

Cooperative Elements

DOE (as owner of SNL) and Sandia (as operator of SNL) share responsibility for the SNL MS4. DOE and Sandia together will comply with all of the requirements of the MS4 Permit, but will do so independently of participation in a cooperative group.

2.2. Development of an ordinance or other regulatory mechanism as required in Part I.D.5.b.(ii).(b)

Sandia Corporate Procedure ESH.100.2.ENV10 will be revised to include requirements of the MS4 Permit, EISA and 19.26.2.15 NMAC to address post-construction runoff from new development and redevelopment projects.

Cooperative Elements

DOE (as owner of SNL) and Sandia (as operator of SNL) share responsibility for the SNL MS4. DOE and Sandia together will comply with all of the requirements of the MS4 Permit, but will do so independently of participation in a cooperative group.

2.3. Implementation and enforcement, via the ordinance or other regulatory mechanism, of site design standards as required in Part I.D.5.b.(ii).(b).

SNL is a Federal facility and currently complies with the EISA, Section 438 of the CWA, for the purposes of preserving or restoring predevelopment hydrology for all development and redevelopment projects with a footprint that exceeds 5,000 square feet.

DOE and Sandia manage post-construction runoff by either retaining stormwater from a 95th percentile storm (1.0 inch) onsite (most common); or retaining the calculated volume of the difference between predevelopment and postdevelopment runoff.

SNL will be constructing detention basins for post-construction stormwater management (pursuant to Section 438 and the MS4 Permit) and may be constructing basins as sediment control BMPs that are compliant with Office of the State Engineer requirements.

See SWMP Plan Section 6.2.3 for additional detail.

Cooperative Elements

DOE (as owner of SNL) and Sandia (as operator of SNL) share responsibility for the SNL MS4. DOE and Sandia together will comply with all of the requirements of the MS4 Permit, but will do so independently of participation in a cooperative group.

2.4. Ensure appropriate implementation of structural controls as required in Part I.D.5.b.(ii).(c) and Part I.D.5.b.(ii).(d)

Pre-construction reviews of BMP designs will be completed during development of construction SWPPPs, as described in Section 5.2.2 of the SWMP Plan.

Inspections will be performed during construction to verify post-construction stormwater management BMPs are being built as designed.

An inspection will be performed upon completion of construction to verify post-construction stormwater management BMPs are completed as designed, and once per year thereafter to verify proper maintenance.

Non-compliance will be addressed through the enforcement protocol discussed in Section 1.6 of the SWMP Plan.

Cooperative Elements

DOE (as owner of SNL) and Sandia (as operator of SNL) share responsibility for the SNL MS4. DOE and Sandia together will comply with all of the requirements of the MS4 Permit, but will do so independently of participation in a cooperative group.

2.5. Develop procedures as required in Part I.D.5.b.(ii).(e), Part I.D.5.b.(ii).(f), Part I.D.5.b.(ii).(g), and Part I.D.5.b.(ii).(h)

Sandia Corporate Training (SW100) Stormwater Pollution Prevention Training will be revised to address the awareness of site design techniques and controls, including GI/LID/Sustainability Practices, and the SNL SSP.

Sandia Corporate Procedure ESH.100.2.ENV10 will be revised to include the elements listed in Section 6.2.5 of the SWMP Plan such as requiring training, site inspections, as-built plans and revision of the procedure, as necessary.

Corporate Procedure ESH.100.2.ENV10 and the Sandia Integrated Pest Management Plan will be revised to include controls for pesticides, herbicides, and fertilizers with respect to application, storage, and training. See Section 6.2.5 of the SWMP Plan.

Cooperative Elements

DOE (as owner of SNL) and Sandia (as operator of SNL) share responsibility for the SNL MS4. DOE and Sandia together will comply with all of the requirements of the MS4 Permit, but will do so independently of participation in a cooperative group.

2.6. Coordinate internally with all departments and boards with jurisdiction over the planning, review, permitting, or approval of public and private construction projects/activities within the permit area as required in Part I.D.5.b.(iii)

As the SMWP develops, the Stormwater Team identified in Section 1.7 of this SWMP Plan will evolve to include subject matter experts and points of contacts in multiple organizations including Environmental Programs and Facilities.

DOE and Sandia will coordinate with all departments that have responsibilities associated with the planning, review, permitting, or approval of new development and redevelopment projects/activities within the SNL MS4.

The requirement to ensure the hydrology associated with new development and redevelopment sites mimics the pre-development hydrology of the previously undeveloped site will be discussed prior to the development of a CGP SWPPP (Section 5.2.2 of SWMP Plan).

Cooperative Elements

DOE (as owner of SNL) and Sandia (as operator of SNL) share responsibility for the SNL MS4. DOE and Sandia together will comply with all of the requirements of the MS4 Permit, but will do so independently of participation in a cooperative group.

2.7. As required in Part I.D.5.b.(iv), the permittee must assess all existing codes, ordinances, planning documents and other applicable regulations, for impediments to the use of GI/LID/Sustainable practices

SNL is a federal facility and therefore DOE and Sandia are required to comply with numerous Executive Orders, the EISA and other Acts, as well as other federal mandates regarding sustainability.

Sandia prepares the SNL Site Sustainability Plan (SSP; see the SWMP Plan Appendix) annually in support of DOE's Strategic Sustainability Performance Plan (SSPP). As part of this process, GI/LID/Sustainable Practices are evaluated.

See Section 6.2.7 of the SWMP Plan for additional details.

Cooperative Elements

DOE (as owner of SNL) and Sandia (as operator of SNL) share responsibility for the SNL MS4. DOE and Sandia together will comply with all of the requirements of the MS4 Permit, but will do so independently of participation in a cooperative group.

2.8. As required in Part I.D.5.b.(iv), describe the plan to report the assessment findings on GI/LID/ Sustainable practices

DOE and Sandia will review the initiatives of the SSP on an annual basis and summarize the notable GI/LID/ Sustainable Practices in the Annual Report.

See Section 6.2.7 of the SWMP Plan for details.

Cooperative Elements

DOE (as owner of SNL) and Sandia (as operator of SNL) share responsibility for the SNL MS4. DOE and Sandia together will comply with all of the requirements of the MS4 Permit, but will do so independently of participation in a cooperative group.

2.9. Estimation of the number of acres of IA and DCIA as required in Part I.D.5.b.(vi)

The number of acres of impervious area (IA; including conventional pavements, sidewalks, driveways, roadways, parking lots, and rooftops) will be estimated for the SNL MS4 and included in the SWMP Plan submitted with the first Annual Report.

The directly connected impervious area (DCIA; the portion of IA with a direct hydraulic connection to the MS4 via continuous paved surfaces, gutters, pipes, and other impervious features) will be estimated for the SNL MS4.

Cooperative Elements

DOE (as owner of SNL) and Sandia (as operator of SNL) share responsibility for the SNL MS4. DOE and Sandia together will comply with all of the requirements of the MS4 Permit, but will do so independently of participation in a cooperative group.

2.10. Inventory and priority ranking as required in section in Part I.D.5.b.(vii)

DOE and Sandia will conduct an inventory and priority ranking of the property within the SNL MS4 that may have the potential to be retrofitted with control measures designed to control the frequency, volume, and peak intensity of stormwater discharges.

Cooperative Elements

DOE (as owner of SNL) and Sandia (as operator of SNL) share responsibility for the SNL MS4. DOE and Sandia together will comply with all of the requirements of the MS4 Permit, but will do so independently of participation in a cooperative group.

2.11. Incorporate watershed protection elements as required in Part I.D.5.b.(viii)

Sandia Corporate Procedure ESH.100.2.ENV10 will be revised to include the watershed protection elements listed in Section 6.2.10 of the SWMP Plan such as recommendations:

to identify environmentally and ecologically sensitive areas that serve critical watershed functions; for disconnecting direct discharges from impervious surfaces; for implementing stormwater management practices that protect groundwater quality;

to avoid or prevent hydromodification of water bodies; to protect native soils, prevent topsoil stripping, and prevent compaction of soils; and to maintain pre-development runoff conditions.

Cooperative Elements

DOE (as owner of SNL) and Sandia (as operator of SNL) share responsibility for the SNL MS4. DOE and Sandia together will comply with all of the requirements of the MS4 Permit, but will do so independently of participation in a cooperative group.

2.12. Enhance the program to include program elements in Part I.D.5.b.(xi) and Part I.D.5.b.(xii)

DOE and Sandia use stormwater educational material and training courses to educate personnel about how their job duties may impact stormwater quality.

DOE and Sandia participate in local stakeholder groups, including the Technical Advisory Group (TAG) that was formed to help local MS4s understand, collaborate, and comply with Permit NMR04A000.

Cooperative Elements

DOE (as owner of SNL) and Sandia (as operator of SNL) share responsibility for the SNL MS4. DOE and Sandia together will comply with all of the requirements of the MS4 Permit, but will do so independently of participation in a cooperative group.

2.13. Describe other proposed activities to address the Post-Construction Stormwater Management in New Development and Redevelopment Measure:

Corporate Procedure ESH100.2.ENV.10 and Corporate Training SW100 will be reviewed and updated annually, at a minimum to reflect changes in regulations and associated BMPs.

An annual review will be conducted of construction projects completed within the reporting period to verify that as-built plans, detailing controls for post-construction stormwater management, were submitted within ninety days of construction completion.

A log will be maintained to summarize any additional measures that have been implemented to decrease impervious areas, decrease stormwater discharges, and/or improve water quality. The log will be updated annually.

Section 3. Pollution Prevention/Good Housekeeping for Municipal/Co-permittee Operations – Proposed BMPs, Stormwater Controls, and Measurable Goals

3.1. Develop or update the Pollution Prevention/Good House Keeping program to include the elements in Part I.D.5.c.(i)

DOE and Sandia already require annual stormwater pollution prevention training for personnel with job duties that have the potential to impact stormwater quality.

Waste is managed through the Solid Waste Collection and Recycling Center (a facility designed to manage solid waste and recyclable materials generated by SNL).

As needed, DOE and Sandia will clean debris, floatables, and sediment from basins, ditches, and other conveyance infrastructure.

An assessment of technical guidance documents will be performed to determine water quality impacts and the potential for incorporation of water quality controls into new flood control projects. See Section 7.2.1 of the SWMP Plan.

Cooperative Elements

DOE (as owner of SNL) and Sandia (as operator of SNL) share responsibility for the SNL MS4. DOE and Sandia together will comply with all of the requirements of the MS4 Permit, but will do so independently of participation in a cooperative group.

3.2. Enhance the program to include the elements in Part I.D.5.c.(ii)

DOE and Sandia will evaluate the successfulness of the program and modify the SWMP with respect to each of the elements of Part I.D.5.c.(ii) as described in Section 7.2.1.6 of the SWMP Plan, including but not limited to the items listed below:

- Develop a list of all stormwater quality facilities, including location and description
- Develop an operational model for de-icing activities, including methods to protect water quality
- Update plan to decrease runoff of vehicle related pollutants

- A review and revision of the existing street sweeping plan and schedule
- A list of the roadways most likely contributing to pollution in runoff
- A review and revision of existing plan for collecting used motor vehicle fluids

- A review and revision of the existing procedures and schedule for cleaning debris and sediment from the stormwater drainage system
- A review and revision of the existing litter control program, including public awareness campaigns

Cooperative Elements

DOE (as owner of SNL) and Sandia (as operator of SNL) share responsibility for the SNL MS4. DOE and Sandia together will comply with all of the requirements of the MS4 Permit, but will do so independently of participation in a cooperative group.

3.3. Develop or update a list and a map of industrial facilities owned or operated by the permittee as required in Part I.D.5.c.(iii)

DOE and Sandia discharge industrial stormwater at SNL in accordance with the provisions of the Multi-Sector General Permit (MSGP) as authorized by NMR05GP29 (DOE) and NMR05GQ63 (Sandia), as discussed in Sections 1.2.4 and 1.4.6 of the SWMP Plan.

Any measures required by the MS4 Permit will be applied to MSGP sites located within boundaries of the SNL MS4 to augment measures already in place under the MSGP.

Cooperative Elements

DOE (as owner of SNL) and Sandia (as operator of SNL) share responsibility for the SNL MS4. DOE and Sandia together will comply with all of the requirements of the MS4 Permit, but will do so independently of participation in a cooperative group.

3.4. Describe other proposed activities to address the Pollution Prevention/Good Housekeeping for Municipal/permittee Operations Measure:

Corporate Procedure ESH100.2.ENV.10: Management of Surface and Stormwater Discharges, and Corporate Training SW100 - Stormwater Pollution Prevention Training, will be reviewed and updated annually, at a minimum.
The SNL MS4 will be divided into areas and inspected for compliance with the P2/GH Program such that each area is inspected a minimum of two times within the Permit term.
The chemicals and application methods associated with deicing operations and storage at SNL will be reviewed and procedures revised (as necessary) by December 22, 2016.
DOE and Sandia will prepare a cumulative summary of retrofit evaluations conducted during the Permit term on existing flood control devices, structures and drainage ways to benefit water quality.

Section 4: Industrial and High Risk Runoff – Proposed BMPs, Stormwater Controls, and Measurable Goals (APPLICABLE ONLY TO CLASS A PERMITTTEES)

4.1. Ordinance (or other control method) as required in Part I.D.5.d.(i)

DOE and Sandia are Class C permittees; Section 4 does not apply.

Cooperative Elements

DOE and Sandia are Class C permittees; Section 4 does not apply.

4.2. Continue implementation and enforcement of the Industrial and High Risk Runoff program, assess the overall success of the program, and document both direct and indirect measurements of program effectiveness in the annual report as required in Part I.D.5.d.(ii)

DOE and Sandia are Class C permittees; Section 4 does not apply.

Cooperative Elements

DOE and Sandia are Class C permittees; Section 4 does not apply.

4.3. Meet the monitoring requirements in Part I.D.5.d.(iii)

DOE and Sandia are Class C permittees; Section 4 does not apply.

Cooperative Elements

DOE and Sandia are Class C permittees; Section 4 does not apply.

4.4. Include requirements in Part I.D.5.d.(iv)

DOE and Sandia are Class C permittees; Section 4 does not apply.

Cooperative Elements

DOE and Sandia are Class C permittees; Section 4 does not apply.

4.5. Enhance the program to include requirements in Part I.D.5.d.(vii)

DOE and Sandia are Class C permittees; Section 4 does not apply.

Cooperative Elements

DOE and Sandia are Class C permittees; Section 4 does not apply.

4.6. Describe other proposed activities to address the Industrial and High Risk Runoff Measure:

DOE and Sandia are Class C permittees; Section 4 does not apply.

Section 5. Illicit Discharges and Improper Disposal – Proposed BMPs, Stormwater Controls, and Measurable Goals

5.1. Mapping as required in Part I.D.5.e.(i)(a)

A map of the SNL MS4 stormwater drainage system, indicating all outfalls and the names and locations of all waters of the U.S. that receive discharges from those outfalls is provided in Appendix B of the SWMP Plan.

Cooperative Elements

DOE (as owner of SNL) and Sandia (as operator of SNL) share responsibility for the SNL MS4. DOE and Sandia together will comply with all of the requirements of the MS4 Permit, but will do so independently of participation in a cooperative group.

5.2. Ordinance (or other control method) as required in Part I.D.5.e.(i)(b)

Sandia currently has a corporate procedure that prohibits discharges to the surface without prior approval from the Environmental Programs Department (Corporate Procedure ESH100.2.ENV.10: Management of Surface and Stormwater Discharges).

Corporate Procedure ESH100.2.ENV.10 is presented to personnel as a component of annual mandatory corporate training materials, and other safety and environmental screening processes. ESH100.2.ENV.10 is summarized in SWMP Plan Section 8.2.2.

Cooperative Elements

DOE (as owner of SNL) and Sandia (as operator of SNL) share responsibility for the SNL MS4. DOE and Sandia together will comply with all of the requirements of the MS4 Permit, but will do so independently of participation in a cooperative group.

5.3. Develop and implement a IDDE plan as required in Part I.D.5.e.(i)(c)

The Sandia workforce is trained to prevent and report activities or events with the potential to cause environmental harm.

If an illicit discharge is observed, the Stormwater Team will perform or coordinate visual screening, employee interviews, field parameters and sample collection to identify possible sources.

Enforcement of the IDDEP will be addressed through Corporate Policy and the protocol discussed in Section 1.6 of the SWMP Plan.

Investigations into the exact cause of the illicit discharge will be conducted to determine how operations or controls can be modified to prevent future illicit discharges. Additional details are provided in Section 8.2.3 of the SWMP Plan.

Cooperative Elements

DOE (as owner of SNL) and Sandia (as operator of SNL) share responsibility for the SNL MS4. DOE and Sandia together will comply with all of the requirements of the MS4 Permit, but will do so independently of participation in a cooperative group.

5.4. Develop an education program as required in Part I.D.5.e.(i)(d)

Sandia will be debuting a stormwater awareness campaign in 2015, "Stormwater - Keep it Clean" to include educational brochures, posters and a publication in The Porcelain Press (discussed in more detail in Section 10 of the SWMP Plan).

The campaign will target Members of the Workforce to raise stormwater quality awareness and advertise training, and will occur during each wet season (July 1 through October 31).

The corporate stormwater pollution prevention training is offered online at any time and is also given in a live presentation to keys groups of employees that have the greatest potential to impact stormwater quality.

Copies of the most recent editions of these materials will be included as an appendix to the SWMP Plan.

Cooperative Elements

DOE (as owner of SNL) and Sandia (as operator of SNL) share responsibility for the SNL MS4. DOE and Sandia together will comply with all of the requirements of the MS4 Permit, but will do so independently of participation in a cooperative group.

5.5. Establish a hotline as required in Part I.D.5.e.(i)(e)

Using any landline at SNL, emergencies can be reported by dialing 911, and non-emergencies can be reported by dialing 311.

Using any phone, emergencies can be reported by dialing (505) 844-0911 and non-emergencies by dialing (505) 844-0311.

The Sandia Emergency Operations Center (EOC) is available at 844-6515 for spill response and cleanup.

Sandia is the primary recipient of calls from these numbers. DOE and various departments within Sandia are in the chain of notification and response.

Cooperative Elements

DOE (as owner of SNL) and Sandia (as operator of SNL) share responsibility for the SNL MS4. DOE and Sandia together will comply with all of the requirements of the MS4 Permit, but will do so independently of participation in a cooperative group.

5.6. Investigate suspected significant/severe illicit discharges as required in Part I.D.5.e.(i)(f)

All illicit discharges at SNL are taken seriously by DOE and Sandia. Should an illicit discharge be detected, it will be investigated within 48 hours, and the sources identified as soon as possible.

Any additional controls (administrative and/or engineered) necessary to prevent future discharges will be implemented as soon as practicable.

Cooperative Elements

DOE (as owner of SNL) and Sandia (as operator of SNL) share responsibility for the SNL MS4. DOE and Sandia together will comply with all of the requirements of the MS4 Permit, but will do so independently of participation in a cooperative group.

5.7. Review complaint records and develop a targeted source reduction program as required in Part I.D.5.e.(i)(g)

Part I.D.5.e.(i)(g) is applicable to class A and B Permittees only; as a class C permittee this requirement does not apply to DOE and Sandia.

Cooperative Elements

DOE (as owner of SNL) and Sandia (as operator of SNL) share responsibility for the SNL MS4. DOE and Sandia together will comply with all of the requirements of the MS4 Permit, but will do so independently of participation in a cooperative group.

5.8. Screening of system as required in Part I.D.5.e.(iii) as follows:

The SNL MS4 has no identified high priority areas at this time.

Screening of the SNL MS4 is informally conducted on on-going basis by field personnel trained to monitor for leaks, spills, and other discharges.

Formal screening will be conducted and documented at least once every five years which will include the inspection of all known outfalls and MS4 conveyance structures for the presence of illicit discharge.

Any illicit discharge encountered will be sampled, tracked to its source, and corrected through administrative or engineered control measures.

Cooperative Elements

DOE (as owner of SNL) and Sandia (as operator of SNL) share responsibility for the SNL MS4. DOE and Sandia together will comply with all of the requirements of the MS4 Permit, but will do so independently of participation in a cooperative group.

5.9. Develop, update, and implement a Waste Collection Program as required in Part I.D.5.e.(iv)

Sandia has a well developed waste management and recycling program. The program is described in Section 8.2.9 of the SWMP Plan. The program includes education and involvement of all workforce members.

The SNL Solid Waste Collection & Recycling Center (SWCRC) has three purposes:
1. Screen the SNL's collected solid waste and recyclables for prohibited materials.
2. Bale, store, and ship solid waste to an approved landfill.

The SWCRC recycles cardboard, white paper, mixed paper, aluminum cans, foam packaging, plastics (mixed #1-7 rigids), toner and ink cartridges, wood, plywood, green waste and construction/demolition scrap metals.

Hazardous waste generated at SNL is handled under Corporate Procedure ESH100.2.ENV.22. This procedure provides detailed instructions for using, labeling, storing, accumulating, managing, and transporting waste to disposal facilities.

Cooperative Elements

DOE (as owner of SNL) and Sandia (as operator of SNL) share responsibility for the SNL MS4. DOE and Sandia together will comply with all of the requirements of the MS4 Permit, but will do so independently of participation in a cooperative group.

5.10. Develop, update and implement a Spill Prevention and Response program to prevent, contain, and respond to spills that may discharge into the MS4 as required in Part I.D.5.e.(v)

Sandia has a detailed Spill Prevention Control and Countermeasure Plan that includes prevention measures including inspections, testing, records, security, operational procedures, best management practices, and personnel.

In the event of a release, Sandia maintains a sophisticated system of containment facilities, trained response staff, and emergency equipment to prevent pollutants from entering the stormwater drainage system.

Cooperative Elements

DOE (as owner of SNL) and Sandia (as operator of SNL) share responsibility for the SNL MS4. DOE and Sandia together will comply with all of the requirements of the MS4 Permit, but will do so independently of participation in a cooperative group.

5.11. Enhance the program to include requirements in Part I.D.5.e.(ix)

Sandia will utilize ideas from the manual "Illicit Discharge Detection and Elimination, A Guidance Document for Program Development and Technical Assessments" to enhance the IDDE Program as needed.

Cooperative Elements

DOE (as owner of SNL) and Sandia (as operator of SNL) share responsibility for the SNL MS4. DOE and Sandia together will comply with all of the requirements of the MS4 Permit, but will do so independently of participation in a cooperative group.

5.12. Describe other proposed activities to address the Illicit Discharges and Improper Disposal Measure:

Corporate Procedure ESH100.2.ENV.10 and Corporate Training SW100 will be reviewed and updated annually, at a minimum to reflect changes in regulations and associated BMPs.

A log will be maintained of illicit discharges reported within the SNL MS4 boundary. The log will include the method of reporting, pertinent details about the illicit discharge, and a summary of the findings and corrective actions.

An annual summary of solid waste management will be included in the SWMP Plan revision included with each Annual Report.

Section 6. Control of Floatables Discharges – Proposed BMPs, Stormwater Controls, and Measurable Goals

6.1. Develop a schedule to implement the program as required in Part I.D.5.f.(i)(a)

SNL's smoke-free campus and the culture of the workforce foster an environment such that solid waste dumping (i.e., littering) is uncommon.

Additionally, on a larger scale, Sandia manages floatables through administrative and source controls, through robust waste management and pollution prevention programs. These programs are described in detail in Section 8.2 of the SWMP Plan.

For the reasons stated above, DOE and Sandia do not anticipate there to be a significant amount of floatables generated within the SNL MS4.

Cooperative Elements

DOE (as owner of SNL) and Sandia (as operator of SNL) share responsibility for the SNL MS4. DOE and Sandia together will comply with all of the requirements of the MS4 Permit, but will do so independently of participation in a cooperative group.

6.2. Describe the plan to estimate the annual volume of floatables and trash removed from each control facility and characterize the floatable type as required in Part I.D.5.f.(i)(b)

Sandia operates an aggressive waste management and pollution prevention programs that include education and a recycling facility. During FY 2014 approximately 70 percent of the solid waste generated by Sandia was recycled.

There is an insignificant litter or refuse presence within the SNL MS4.

DOE and Sandia propose to implement additional source control measures to reduce trash that might otherwise end up in stormwater, rather than implement costly and unnecessary structural controls (e.g., trash racks).

Structural controls may be installed in the future should they prove to be necessary.

Cooperative Elements

DOE (as owner of SNL) and Sandia (as operator of SNL) share responsibility for the SNL MS4. DOE and Sandia together will comply with all of the requirements of the MS4 Permit, but will do so independently of participation in a cooperative group.

6.3. Describe other proposed activities to address the Control of Floatables Discharges Measure:

The Floatables Program established in compliance with the MS4 Permit will be enhanced to control the discharge of floatables and trash from the SNL MS4 by implementing source control of floatables specifically in industrial and commercial areas.

Corporate Procedure ESH100.2.ENV.10 and Corporate Training SW100 will be reviewed and updated annually, at a minimum to reflect changes in regulations and associated BMPs.

The main SNL MS4 outfall measured by stormwater sampling point SWSP-05 will be inspected quarterly for the presence of floatable debris. Inspection reports will be maintained with the SWMP Plan.

An annual assessment of the Floatables Program will be conducted to evaluate the need for structural controls.

Section 7. Public Education and Outreach on Stormwater Impacts – proposed BMPs, Stormwater Controls, and Measurable Goals

7.1. Develop, revise, implement, and maintain an education and outreach program as required in Part I.D.5.g.(i) and Part I.D.5.g.(ii)

The Stormwater Quality Program has a website for access by personnel containing basic regulatory requirements pertaining to the protection of stormwater quality, training information and contacts for the Stormwater Team.

Corporate Training (SW100) Stormwater Pollution Prevention Training is available online to personnel, and performed as a live presentation upon request.

A stormwater pollution prevention informational brochure is distributed at the cafeteria during environmental events and other events such as Earth Day (Bring Your Sons and Daughters to Work Day) and Family Day.

Sandia owns educational models for stormwater/watershed, groundwater, and drinking water/wastewater and performs demonstrations to students in the classroom, during Earth Day (Bring Your Sons and Daughters to Work Day) and Family Day.

Cooperative Elements

DOE (as owner of SNL) and Sandia (as operator of SNL) share responsibility for the SNL MS4. DOE and Sandia together will comply with all of the requirements of the MS4 Permit, but will do so independently of participation in a cooperative group.

7.2. Enhance the program to include requirements in Part I.D.5.g.(v) through Part I.D.5.g.(viii)

DOE and Sandia may utilize educational materials and program elements as needed to improve the public outreach program.

Educational elements for proper septic system maintenance, proper use and disposal of fertilizers and pesticides, and proper disposal of motor oil and household hazardous wastes will be incorporated into DOE's and Sandia's educational program.

Information about litter reduction, recycling, reduction of pesticide/herbicide use, xeriscaping and reduced water consumption, pet waste and solid waste management will be incorporated into DOE's and Sandia's educational program.

Cooperative Elements

DOE (as owner of SNL) and Sandia (as operator of SNL) share responsibility for the SNL MS4. DOE and Sandia together will comply with all of the requirements of the MS4 Permit, but will do so independently of participation in a cooperative group.

7.3. Describe other proposed activities to address the Public Education and Outreach on Stormwater Impacts Measure:

The corporate online training system that disseminates Stormwater Pollution Prevention Training (SW100) is equipped to track completion. DOE's and Sandia's goal is to maintain a minimum of 90 percent annual participation in SW100 training.

The informational brochures and campaign posters will be reviewed and updated annually to ensure regulatory and contact information is current, and to respond to the educational and training needs of the workforce.

Starting in 2016, the Stormwater Team will hold a minimum of three events per reporting period (July 1 - June 30) to perform demonstrations of the educational models to grade-school children and personnel.

Section 8. Public Involvement and Participation – Proposed BMPs, Stormwater Controls, and Measurable Goals

8.1. Develop (or update), implement, and maintain a public involvement and participation plan as required in Part I.D.5.h.(ii) and Part I.D.5.h.(iii)

The Public Involvement and Participation Program (PIPP) will include a comprehensive planning process which involves public participation and, where necessary, intergovernmental coordination. The PIPP is described in Section 11 of the SWMP Plan.

DOE and Sandia will notify the public via legal notice in the Albuquerque Journal for a period of 30 days, prior to the submission of the NOI (and associated SWMP Plan) and each Annual Report (and associated SWMP Plan revision).

A copy of the MS4 Permit and the applicable documents (i.e., NOI, Annual Report, SWMP Plan, etc.) will be maintained up-to-date through the University of New Mexico (UNM) LoboVault online database (https://repository.unm.edu/handle/1928/26737).

A functional behavioral assessment will be performed at DOE/DoD Semi-Annual Public Meeting, where the topic of "stormwater" is presented. The public's antecedent (before), present (during), and consequence (after) behavior will be observed and recorded.

Cooperative Elements

DOE (as owner of SNL) and Sandia (as operator of SNL) share responsibility for the SNL MS4. DOE and Sandia together will comply with all of the requirements of the MS4 Permit, but will do so independently of participation in a cooperative group.

8.2. Describe the plan to comply with State, Tribal, and local notice requirements when implementing a Public Involvement and Participation Program as required in Part I.D.5.h.(iv)

DOE and Sandia will comply with State, Tribal, and local public notice requirements when implementing a public involvement/ participation program.

Cooperative Elements

DOE (as owner of SNL) and Sandia (as operator of SNL) share responsibility for the SNL MS4. DOE and Sandia together will comply with all of the requirements of the MS4 Permit, but will do so independently of participation in a cooperative group.

8.3. Describe a plan to include elements as required in Part I.D.5.h.(v)

Public notices will be printed in a newspaper of general circulation in the Albuquerque area (i.e., The Albuquerque Journal) and be available online.

The DOE/DoD Semi-Annual Public Meetings are open to all citizens and the public is encouraged to attend. The meetings will be used as a mechanism to discuss stormwater permitting at SNL.

The MS4 Permit (specifically Appendix E), NOIs and SWMP Plan will be available at https://repository.unm.edu/handle/1928/26737 through the University of New Mexico (UNM) LoboVault on-line database.

Physical copies of documents posted to the UNM LoboVault will be available at the UNM Zimmerman Library. Contact Daniel Barkley at 505-277-7180 or barkley@unm.edu in advance to make an appointment.

Cooperative Elements

DOE (as owner of SNL) and Sandia (as operator of SNL) share responsibility for the SNL MS4. DOE and Sandia together will comply with all of the requirements of the MS4 Permit, but will do so independently of participation in a cooperative group.

8.4. As required in Part I.D.5.h.(viii) provide the internet site (or website) where the SWMP document, Annual Reports, and other documents will be available to the public.

8.5. Enhance the program to include requirements in Part I.D.5.h.(ix)

DOE and Sandia will consider options for enhancing the PIPP as needed based on the results of the previous year(s).

Cooperative Elements

DOE (as owner of SNL) and Sandia (as operator of SNL) share responsibility for the SNL MS4. DOE and Sandia together will comply with all of the requirements of the MS4 Permit, but will do so independently of participation in a cooperative group.

8.6. Describe other proposed activities to address the Public Involvement and Participation Measure:

Comments received by the public in response to any and all public notices will be considered and maintained with the SWMP Plan for the duration of the Permit term.

DOE and Sandia will perform one functional behavioral assessment during the Permit team at DOE/DoD Semi-Annual Public Meeting, before, during and after the topic of "stormwater" is presented.

IV. Proposed Monitoring Program

Indicate wet weather monitoring program preference:

Individual Monitoring Program ☒

Cooperative Monitoring Program ☐

Provide a general description of the propose monitoring program.

Wet weather and dry weather monitoring will be conducted in compliance with the location, frequency, constituent, and method requirements described in Part III of the Permit. Monitoring is described in more detail in Section 12 of the SWMP Plan.

DOE and Sandia will collect samples at all SNL MS4 inlets and outlets. This will include 1 inlet location and 4 outlet locations. Flow will be measured at the inlet and main outlet of the MS4.

A map of monitoring locations is provided in Appendix B of the SWMP Plan. E. coli waste loads will be determined for each monitoring location and evaluated for compliance with TMDL's.

V. Public Participation

Include a Summary of issues raised in any local public comments received by the MS4 Operator on the draft NOI/SWMP and MS4 operator's responses.

Public comments and responses to them will be provided to EPA and NMED at the time the NOI and SWMP Plan are submitted (on or before June 20, 2015).

VI. Attachments

Attach a location map showing the boundaries of the MS4 under the applicant's jurisdiction. The map must include streets or other demarcations so that the exact boundaries can be located.

Are other attachments included with the NOI? If so, indicate the title of the document(s).

SWMP Plan v.0, dated May 4, 2015 (https://repository.unm.edu/handle/1928/26737)

Maps are included as Appendix B of the SWMP Plan.

VII. 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.

Signature: [signature]

Printed Name: Jeffrey P. Harrell

Date: 5/5/2015