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Date: March 29, 2024
Refer To: N3B-2024-0088

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Mr. Ruben Alayon-Gonzalez
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 U.S. Environmental Protection Agency, Region 6
 1201 Elm Street, Suite 500
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Subject: Submittal of the 2023 Sampling Implementation Plan as Required per the U.S. Environmental Protection Agency National Pollutant Discharge Elimination System Permit No. NM0030759

Dear Ms. Johnson and Mr. Alayon-Gonzalez:

This letter and enclosures are being submitted in accordance with the requirements of the U.S. Environmental Protection Agency (EPA) National Pollutant Discharge Elimination System (NPDES) Permit No. NM0030759, for discharges of stormwater at Los Alamos National Laboratory. The permit was issued to Newport News Nuclear BWXT-Los Alamos, LLC (N3B) and the U.S. Department of Energy Environmental Management Los Alamos Field Office (EM-LA), effective August 1, 2022.

As specified in Part I.E.2 of the permit, EPA will review the 2023 Annual Sampling Implementation Plan (SIP), require revisions as necessary, and approve via a minor permit modification [40 Code of Federal Regulations 122.63(b) and/or (e)(2)] to incorporate the annual SIP requirements applicable for a specified monitoring period. Unless disapproved, the permittee may begin implementing the SIP on a provisional basis 30 days after submittal to EPA and update as necessary once the final SIP is approved.

If you have questions, please contact Michael Erickson at (505) 309-1349 (michael.erickson@em-la.doe.gov) or Brian Harcek at (240) 562-1117 (brian.harcek@em.doe.gov).

Sincerely,

Troy Thomson
Program Manager
Environmental Remediation
N3B-Los Alamos

Sincerely,

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Brian Harcek, Director
Office of Quality and Regulatory Compliance
U.S. Department of Energy
Environmental Management
Los Alamos Field Office

Enclosure(s): One copy with electronic files –

- 2023 Annual Sampling Implementation Plan NPDES Permit No. NM0030759 March 2024 (EM2024-0148, EM2024-0149, EM2024-0150, EM2024-0151, EM2024-0152, and EM2024-0153)

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PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

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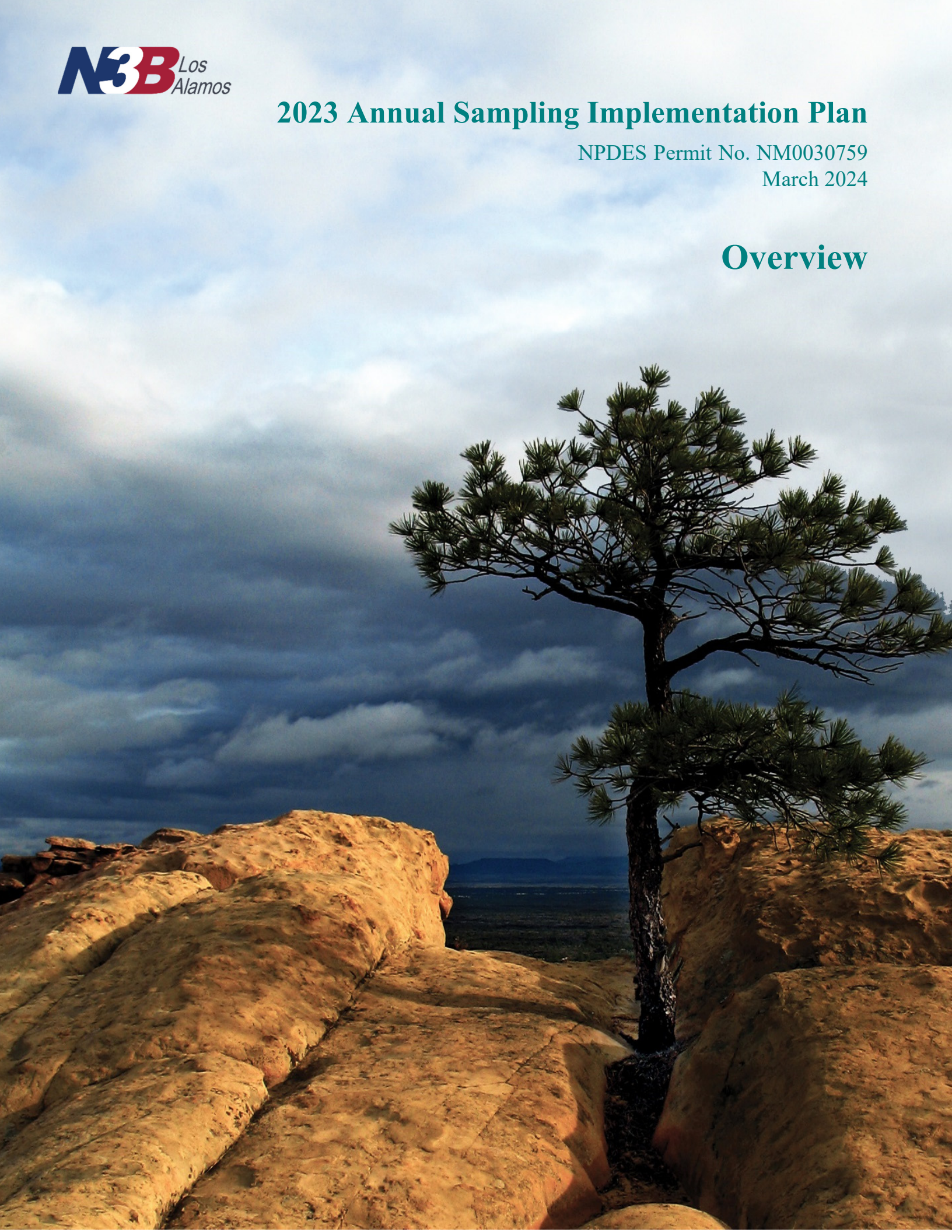


2023 Annual Sampling Implementation Plan

NPDES Permit No. NM0030759

March 2024

Overview



CERTIFICATION

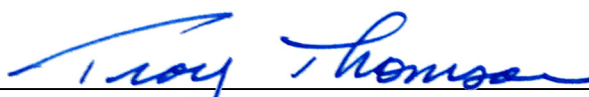
NEWPORT NEWS NUCLEAR BWXT-LOS ALAMOS, LLC

NPDES Permit No. NM0030759

2023 Annual Sampling Implementation Plan

CERTIFICATION STATEMENT OF AUTHORIZATION

"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."



Troy Thomson, Program Manager
Environmental Remediation
Newport News Nuclear BWXT-Los Alamos, LLC

March 22, 2024
Date

Brian Harcek, Acting Co-Director
Office of Quality and Regulatory Compliance
U.S. Department of Energy
Environmental Management
Los Alamos Field Office

Date

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OVERVIEW

NPDES Permit No. NM0030759, March 2024

1.0 Background

1.1 Individual Permit

DOE and N3B, collectively the Permittees, have prepared this 2023 Sampling Implementation Plan (hereafter, the SIP) for the Individual Stormwater Permit, pursuant to the requirements of NPDES Permit No. NM0030759 (hereafter, the Individual Permit, Permit, or IP), as authorized by EPA. All acronyms and abbreviations used in this SIP are included in Appendix A of this Overview and are not defined at first use.

The IP regulates stormwater discharges associated with historical industrial activities from 397 permitted SWMUs and/or AOCs (collectively, Sites). The majority of the Sites covered by the IP are remotely located and are not associated with current industrial activities. Stormwater discharges associated with current conventional industrial activities at the Laboratory are excluded from the IP. The Permit incorporating the latest modifications became effective on August 1, 2022. A minor modification to address administrative changes was issued on September 8, 2022.

The Sites regulated under this Permit are a subset of the SWMUs and AOCs that are addressed under the June 2016 Compliance Order on Consent (Consent Order) modified February 2017. The Consent Order fulfills the corrective action requirements under Sections 3004(u) and (v) and 3008(h) of RCRA for releases of hazardous waste or hazardous waste constituents from SWMUs and AOCs.

- A SWMU is any discernible unit at which solid waste has been placed at any time, and from which NMED determines there may be a risk of a release of hazardous waste or hazardous waste constituents, irrespective of whether the unit was intended for the management of solid or hazardous waste. Such units include any area at which solid wastes have been routinely and systematically released but do not include one-time spills.
- An AOC is any area having a known or suspected release of hazardous waste or hazardous constituents that is not from an SWMU and that may pose a current or potential threat to human health or the environment. An AOC may include buildings and structures at which releases of hazardous waste or constituents were not remediated, including one-time and accidental spills.

All SWMUs and AOCs regulated under the Consent Order were evaluated for inclusion in the Permit based on the following criteria:

1. the SWMU/AOC is exposed to stormwater (e.g., not capped or subsurface);
2. the SWMU/AOC may contain “significant industrial material” (e.g., not cleaned up or has contamination in place); and
3. industrial materials from the SWMU/AOC could potentially impact waters of the United States.

The IP categorizes a Site as having had an “industrial activity” that creates a “point source discharge,” and directs the Permittees to monitor representative stormwater discharges from Sites at specified sampling points known as SMAs. An SMA is a single drainage area within a sub-watershed, and may extend across more than one Site. Stormwater from a Site may drain to multiple sub-watersheds and may be associated with multiple SMAs. The 397 Sites included on this Permit are monitored at 239 SMAs with a total of 436 Site/SMA associations.

1.2 2023 Sampling Implementation Plan

The 2023 SIP covers stormwater data collected between 2010 and 2023, along with Consent Order decision-level soil data collected between 1995 and 2023. The 2022 SIP presented data up to 2021. SMAs with new soil or stormwater samples collected in 2022 and/or 2023 are shown in Table 1.2-1.

Table 1.2-1 SMAs with 2022 and/or 2023 Data

SMA				
2M-SMA-1	2M-SMA-1.42	2M-SMA-1.43	2M-SMA-1.44	2M-SMA-1.45
2M-SMA-1.5	2M-SMA-1.65	2M-SMA-1.67	2M-SMA-1.7	2M-SMA-1.8
2M-SMA-1.9	2M-SMA-2	2M-SMA-2.2	2M-SMA-2.5	2M-SMA-3 at SS193230
2M-SMA-3 at SS2439	3M-SMA-0.2	3M-SMA-0.5	ACID-SMA-1.05	ACID-SMA-2.1
A-SMA-2.5	A-SMA-2.8	A-SMA-3	A-SMA-3.5	A-SMA-6
CDV-SMA-2.42	CHQ-SMA-1.01	CHQ-SMA-1.03	CHQ-SMA-2	CHQ-SMA-6
DP-SMA-1	F-SMA-2	LA-SMA-0.85	LA-SMA-1.1	LA-SMA-3.1
LA-SMA-4.1	LA-SMA-5.02	M-SMA-1	M-SMA-12.6	M-SMA-12.7
M-SMA-13	M-SMA-3	M-SMA-4	M-SMA-7.9	PJ-SMA-11
PJ-SMA-11.1	PJ-SMA-17	PJ-SMA-19	PJ-SMA-2	PJ-SMA-20
PJ-SMA-3.05	PJ-SMA-5	PJ-SMA-6	PJ-SMA-9	PJ-SMA-9.2
P-SMA-0.3	PT-SMA-0.5	PT-SMA-2	PT-SMA-3	S-SMA-0.25
S-SMA-3.6	S-SMA-3.62	S-SMA-3.7	S-SMA-6	STRM-SMA-1.05
STRM-SMA-4.2	W-SMA-1.5	W-SMA-5	W-SMA-9.05	

1.3 Determining Pollutants of Concern

For each Site on the IP, the Site history and relevant documents have been used to determine the POCs. POCs with TALs will be used for screening and corrective action per the Permit. POCs with an NMWQCC- and EPA-approved method but no TAL will be used for screening purposes only. Table 1.3-1 lists the actions that will be taken for each of the groups of POCs identified in the Site history.

Table 1.3-1 Actions Taken for Pollutants of Concern

Pollutant of Concern Group	Pollutant of Concern Action Taken
Metals	Metals were analyzed for every sample in the former Permit using the TAL metals suite, which included aluminum, antimony, arsenic, boron, cadmium, chromium, cobalt, copper, lead, mercury (total), nickel, selenium (total), silver, thallium, vanadium, and zinc. If samples have already been collected, the sampler will be reactivated only if a metal, not previously monitored for, is specifically designated in the Site history (e.g., barium, beryllium, iron, manganese, and uranium, which do not have TALs but do have WQS).

Table 1.3-1 (continued)

Pollutant of Concern Group	Pollutant of Concern Action Taken
Organic Chemicals	SVOCs with a TAL and/or WQS and PCB congeners will be monitored as indicated by the Site history. Because there are new SVOCs with WQS, we will monitor for all SVOCs in the Site history regardless of soil sampling results. The SVOC list for analysis includes acenaphthene; anthracene; benzidine; benzo(a)anthracene; benzo(a)pyrene; benzo(b)fluoranthene; benzo(k)fluoranthene; bis(2-ethylhexyl)phthalate; bis(chloromethyl)ether; butylbenzylphthalate; chloro-3-methylphenol[4-]; chloronaphthalene[2-]; chlorophenol[2-]; chrysene; dibenz(a,h)anthracene; dichlorobenzene[1,2-]; dichlorobenzene[1,3-]; dichlorobenzene[1,4-]; dichlorobenzidine[3,3'-]; dichlorophenol[2,4-]; diethylphthalate; dimethylphthalate dimethylphenol[2,4-]; di-n-butylphthalate; dinitro-2-methylphenol[4,6-]; dinitrophenol[2,4-]; dinitrophenols; diphenylhydrazine[1,2-]; fluoranthene; fluorene; hexachlorobenzene; hexchlorobutadiene; hexachlorocyclopentadiene; hexachloroethane; indeno(1,2,3-cd)pyrene; isophorone; nitrosamines; nitrosodiethylamine[N-]; nitrosodimethylamine[N-]; nitroso-di-n-butylamine[N-]; nitroso-di-n-propylamine[N-]; nitrosodiphenylamine[N-]; nitrosopyrrolidine[N-]; nonylphenol; pentachlorobenzene; pentachlorophenol; phenol; pyrene; tetrachlorobenzene[1,2,4,5]; trichlorobenzene[1,2,4-]; trichlorophenol[2,4,5-]; and trichlorophenol[2,4,6-]. SVOCs with a TAL will be prioritized, followed by SVOCs with a WQS but no TAL. PCB congeners will be analyzed according to EPA Method 1668.
Inorganic Chemicals	The full metals suite will be analyzed. See list of metals above.
Radionuclides	Radium-226/228, gross alpha, strontium-90, and tritium will be analyzed.
Dioxins/Furans	Tetrachlorodibenzodioxin[2,3,7,8-] will be analyzed.
Cyanide	Cyanide (total) will be analyzed.
HE	RDX; TNT; 2,4-dinitrotoluene; and nitrobenzene will be analyzed. (Dinitrotoluene[2,4-] and nitrobenzene do not have TALs but they do have WQS.)
Pesticides	Pesticides with TALs and/or WQS will be analyzed. These include aldrin; BHC[alpha-]; BHC[beta-]; BHC[gamma-]; carbaryl; chlordane(alpha/gamma); chlorpyrifos; DDD[4,4'-]; DDE[4,4'-]; DDT[4,4'-]; demeton; diazinon; dieldrin; endosulfan I; endosulfan II; endosulfan sulfate; endrin; endrin aldehyde; Guthion; heptachlor; heptachlor epoxide; malathion; methoxychlor[4,4'-]; mirex; parathion; total BHC (technical grade); and toxaphene (technical grade). Pesticides with a TAL will be prioritized, followed by pesticides with a WQS but no TAL.

Once POCs are identified for all Sites within an SMA, the SSD will be performed to determine the parameters in the SAP (which summarizes SMA status and analytical suite for monitoring) for that SMA. (For more information, refer to section 1.4.) The following actions will be taken to determine if a POC will be included in the SAP:

- If the POC is in the Site history, was monitored for in soil data, and exceeds screening level, include the POC in the SAP.
- If the POC is in the Site history and was monitored for in soil data but does not exceed screening level, do not add the POC to the SAP (except for SVOCs because RCRA monitors for a smaller SVOC suite in soils than required under IP for stormwater. If SVOCs are in the Site history, then include in the SAP).
- If the POC is in the Site history, but soil data have not been collected under RCRA, include the POC in the SAP.
- If an analyte exceeds soil-screening levels but is not a POC based on Site history, do not include the POC in the SAP.

1.4 Site-Specific Demonstration

The Permit establishes TALs that are based on NMWQC. These TALs are used as benchmarks to determine the effectiveness of control measures implemented under the Permit. As stated in Permit Part I.3, “Where corrective action is triggered by an event that does not itself constitute Permit noncompliance, such as an exceedance of applicable TALs or BTVs, there is no violation of the Permit, provided the Permittees take the required corrective action within the relevant deadlines.”

To ensure compliance with this portion of the Permit, confirmation-monitoring sample results for an SMA are compared with applicable TALs and composite BTVs as part of the SSD. Two confirmation-monitoring samples are planned per monitoring stage, unless 2 yr have passed since analytical results were received from the first sample at an SMA, in which case, under Part I.B.1.a of the 2022 IP, one sample may be used in the SSD. In the initial 2022 SIP, each SMA was screened using the SSD process, as outlined in Figure 1.4-1. In the 2023 SIP, SMAs with new data have been re-screened.

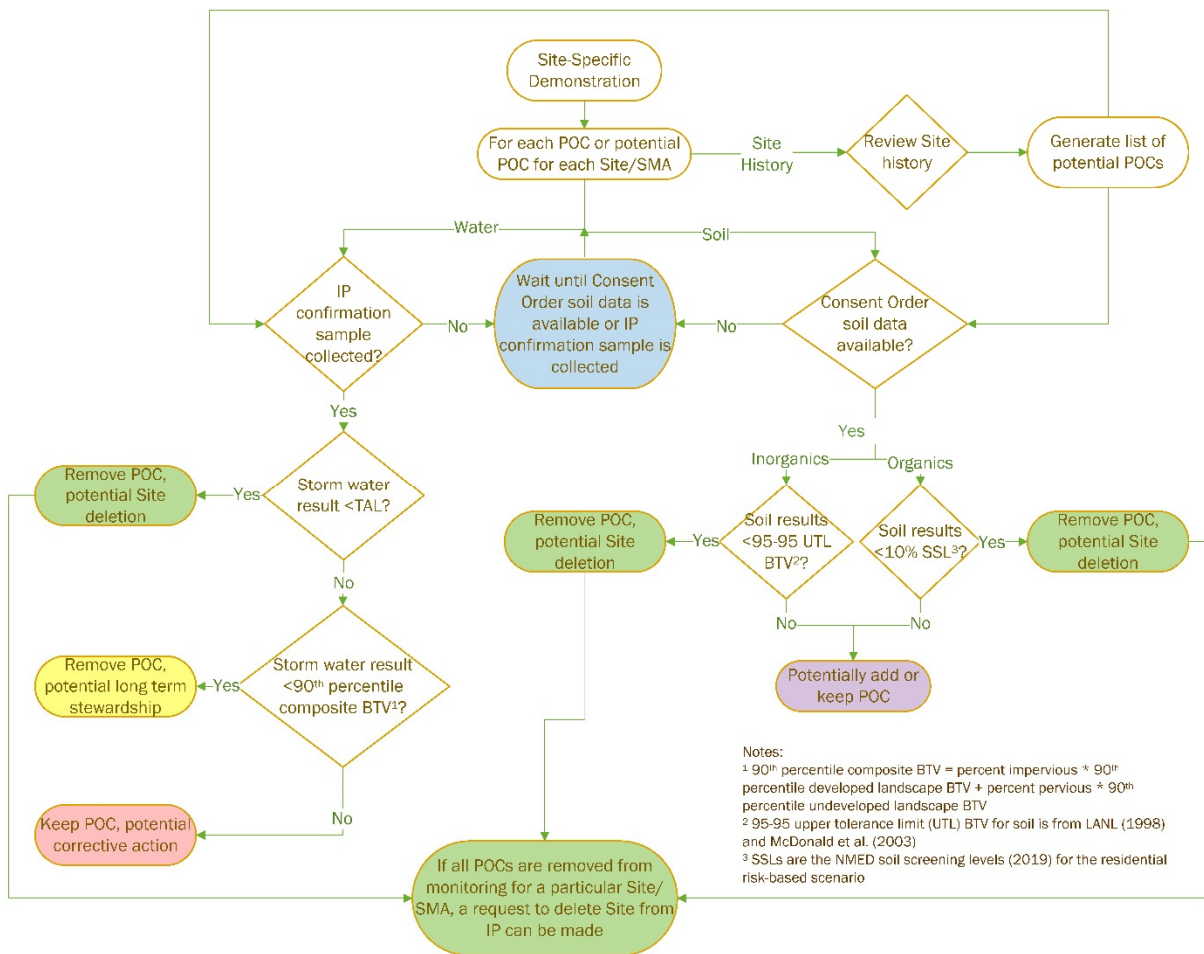


Figure 1.4-1 Site-Specific Demonstration Process

Site history, stormwater data, and soil data for each SMA were reviewed to determine POCs to be monitored and the SMA tier. There are four tiers that result from the SSD, based on Part I.C.2.b.i:

- Active Monitoring – the SMA and associated Sites are in Active Monitoring status. At least one new stormwater sample will be collected.
- Site Deletion – All Site-related POCs have been monitored, and no TAL exceedances were reported. Soil sampling at the SMA is complete.
- Long-Term Stewardship – All Site-related POCs have been monitored, and results were either less than TAL, or less than TAL and composite BTV, with the exception of gross alpha.
- Corrective Action – One or more Site-related POCs exceed the TAL and composite BTV.

The monitoring status of certain SMAs consists of a combination of Active Monitoring and Corrective Action tiers. At these SMAs, the SSD reviewed stormwater data for samples that were collected under the 2010 Permit, are more than 2 yr old, and had at least one TAL and/or composite BTV exceedance. Corrective action was required for those POCs per Part I.D. However, the SSD also determined that not all Site-related POCs were monitored for in those samples; thus, active monitoring is also being initiated. These SMAs are listed in Overview section 3.0 and Table 3.5-1. Additionally, they are identified in the Master Sampling and Analysis Plan (see section 4) as being in Active Monitoring/Corrective Action status.

This document and process, as outlined in the IP and explained in this Overview, is referred to as the SIP. The results of the SIP have been gathered into a sampling and analysis plan, referred to as the SAP. The SAP will drive what is monitored for at each SMA. The SIP is to be published annually by EPA as Appendix E to the IP.

1.5 Data Quality Objectives

Analytical results meet the N3B minimum data quality objectives as outlined in N3B-PLN-SDM-1000, “Sample and Data Management Plan.” N3B-PLN-SDM-1000 sets the validation frequency criteria at 100% for Level 1 examination and Level 2 verification of data, and at 10% for Level 3 validation of data.

A Level 1 examination includes assessing the completeness of the data as delivered from the analytical laboratory, identifying any reporting errors, and evaluating the acceptability of the data for the intended use. A Level 2 verification includes evaluating the data to determine the extent to which the laboratory met the analytical method– and contract-specific quality control and reporting requirements. A Level 3 validation includes Levels 1 and 2 criteria and determines the effect of potential anomalies encountered during analysis, and possible effects on data quality. A Level 3 validation is performed manually with method-specific data validation procedures.

Laboratory analytical data are validated by N3B personnel as outlined in N3B-PLN-SDM-1000; N3B-AP-SDM-3000, “General Guidelines for Data Validation”; N3B-AP-SDM-3014, “Examination and Verification of Analytical Laboratory Data”; and additional method-specific analytical data validation procedures. All associated validation procedures have been developed, where applicable, from the “Department of Defense (DoD)/DOE Consolidated Quality Systems Manual (QSM) for Environmental Laboratories”, EPA National Functional Guidelines, EPA QA/G-8, “Multi-Agency Radiological Laboratory Analytical Protocols Manual (MARLAP),” and ANSI/ANS 41.5.

N3B’s contracted, independent analytical laboratories are required to be certified by DOECAP-AP. This certification includes annual evaluations conducted by third-party assessors, often with an N3B observer present. DOECAP-AP certification assures N3B and stakeholders that environmental sample analysis is performed using verified methods, providing reliable and defensible data. DOECAP-AP certification also requires a laboratory QA program, which includes analytical QC (i.e., spiked samples, duplicates, and blanks) as well as data security, integrated data management systems, instrumentation records, and responsible waste management.

The Permittees target the collection of field duplicates for 10% of all samples. In 2023, field duplicates totaled 27 out of 283 sample IDs, or 9.5%. Field duplicate collection is dependent on weather and sample volume. Using the Data Validation Procedure, field duplicate data are automatically evaluated during data validation. The field duplicate is compared to the paired regular sample and if the relative percent difference is out of bounds then data qualifiers are applied. Analytical results for field duplicates will be included in the 2023 Update to the SDPPP, scheduled to be submitted to EPA by May 1, 2024.

2.0 Guide to the Sampling Implementation Plan

The SIP is organized by SMA and grouped by watershed. For clarity, SMAs are uniquely and consecutively numbered from 1 to 239. All SWMUs/AOCs monitored by an SMA are discussed in the applicable section. The structure for each SMA in the SIP is the following, with “X” standing in for the SMA number:

- X.0 SMA Overview
 - X.1 2022 Permit Summary
 - X.2 Site History (with descriptions of each Site within the SMA)
 - X.2.1 Known or Potential Use of Pollutants of Concern
 - X.3 Consent Order Soil Data
 - X.4 Stormwater Evaluation
 - X.4.1 Summary of Stormwater Results Compared with TALs and BTVs
 - X.4.2 Assessment Unit and Stream Impairments
 - X.5 Site Specific Demonstration
 - X.5.1 Soil Data Summary
 - X.5.2 Stormwater Data Summary
 - X.5.3 2022 Permit Status
 - X.5.4 Sampling and Analysis Plan (if applicable)

Detailed descriptions of each of these sections of the SIP follow.

2.1 SIP Section X.0, SMA Overview

Each SMA discussion begins with an overview table of SMA characteristics. Table 2.1-1 shows a sample list of such characteristics with descriptions of each line item.

Table 2.1-1 Descriptions of SMA Characteristics

Term	Description
Associated Sites	SWMUs and AOCs associated with the SMA
Receiving Water	Designated Canyon/Watershed that the SMA drains to
Drainage Area	Area in acres of the SMA
Landscape Characteristics	The percentage of land within the SMA that is designated as impervious, and the percentage designated as pervious
Consent Order Site Status	The current Consent Order site status for each of the SWMUs and AOCs that are monitored by the SMA
Site-Specific Demonstration Status	Result of the SSD screening process and the status of the SMA under the 2022 Individual Permit

2.2 SIP Section X.1, 2022 Permit Summary

This section summarizes sample collection, sampler moves, and any certifications submitted to EPA under the 2022 Permit.

A current project map of each SMA is available on the IP Public Website: <https://ext.em-la.doe.gov/IPS/Home/SiteMonitoringAreaMaps>. As changes occur during the year, maps are updated and posted to the website.

2.3 SIP Section X.2, Site History

The Site history for each SWMU and/or AOC within an SMA in this section is the most up-to-date information available at the end of the calendar year. The date of the last update (if available) is included with each Site history. The Site history data are updated in accordance with the Consent Order effort as documents are reviewed and new investigations are planned.

2.3.1 SIP Section X.2.1, Potential Pollutants of Concern

The POCs known to have been used, or that potentially were used, at a Site are listed in the SSD for each applicable SMA (Part I.C.2). The table in this section lists each Site and potential POCs associated with the Site. The POCs are used as the building blocks for the SSD and help to determine which POCs will be monitored at the SMA. For example, a Site description that identifies the Site as an outfall from an HE sump would result in the identification of HE as a potential POC. If HE is not currently a monitoring requirement, and HE was not monitored for in soil data or HE exceeded screening levels in soil data, it would be added to the SAP for the respective SMA.

The POC table is the starting point for determining which potential POCs with TALs or WQS will be monitored at the SMA. This determination, coupled with the soil and stormwater data, determines the SAP for SMAs in active monitoring. If a parameter with a TAL or a WQS is listed as a POC based on the Site history but has not been monitored for in soil or stormwater, it is added to the SAP. POCs without TALs or WQS are not added to the SAP for monitoring because there are no criteria against which to screen them. The Permittees adhere to the requirements in the federal Clean Water Act, the New Mexico Water Quality Act, the New Mexico WQS, and the Individual Permit. When updates to 20.6.4 NMAC occur, the Permittees will adopt the new and/or revised WQS from the most current NMAC update.

2.4 SIP Section X.3, Consent Order Soil Data

The next step in the SSD is to identify Consent Order decision-level soil data associated with the SMA and the Sites monitored by the SMA. Soil data are included if they meet all of the following criteria:

- collected after 1995,
- collected from a starting depth between 0–3 ft bgs,
- within the SMA or within 100 ft of the SMA boundary, and
- considered decision-level data.

This information is used in the screening process outlined further in section 2.6.

Per Permit Part I.C.2.b.ii, soil data are screened using 95-95 UTL BTVs for inorganic POCs (LANL 1998, 059730) and the most recent NMED SSLs for organic POCs and inorganic POCs with no BTV (Permittees must use the most recent NMED SSLs). As of the finalization of this Permit, the most recent version of SSLs was in the NMED November 2022 “Risk Assessment Guidance for Site Investigations and Remediation; Volume 1 Soil Screening Guidance for Human Health Risk Assessments” (NMED 2022, 702484).

Following the introductory text in this section, soil analytical plots include all parameters analyzed for in-soil data that have either a TAL or a WQS. Analytical results for each analyte presented in the plots are normalized by calculating an exceedance ratio, defined as the analytical result divided by the applicable screening value (BV, 10% of the SSL, or 10% of the SAL). The exceedance ratios are plotted in box plots to allow for the display of a significant amount of data. Box plots are organized as follows:

- a horizontal line appears at the median;
- the upper box is the upper quartile (25% of data are greater than the upper line of the box);
- the lower box is the lower quartile (75% of data are greater than the lower line of the box);
- whiskers represent the maximum value, that is not an outlier, on the top, and the minimum value, that is not an outlier, on the bottom; and
- points represent outliers that are outside the range of normal.

A solid symbol on the plot represents a result that is detected, while a hollow symbol represents a value that is considered ND, where the analytical laboratory was not able to detect a concentration greater than the MDL, which is defined as “...the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix containing the analyte” (40 CFR Part 136, Appendix B).

Figures 2.4-1 through 2.4-3 provide more specific details related to individual components of the soils analytical results and how they are represented on the plots and tables in the document.

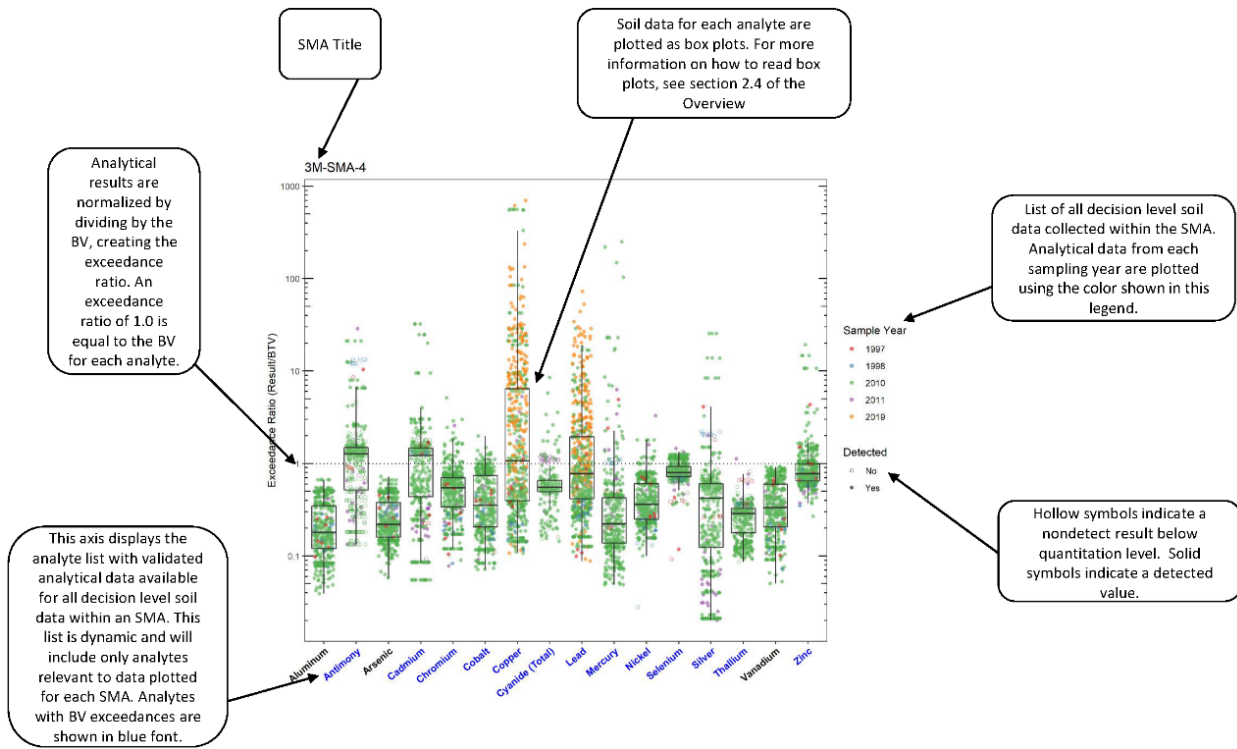


Figure 2.4-1 Inorganics Analytical Results (Soils) – Sample Plot with Explanations

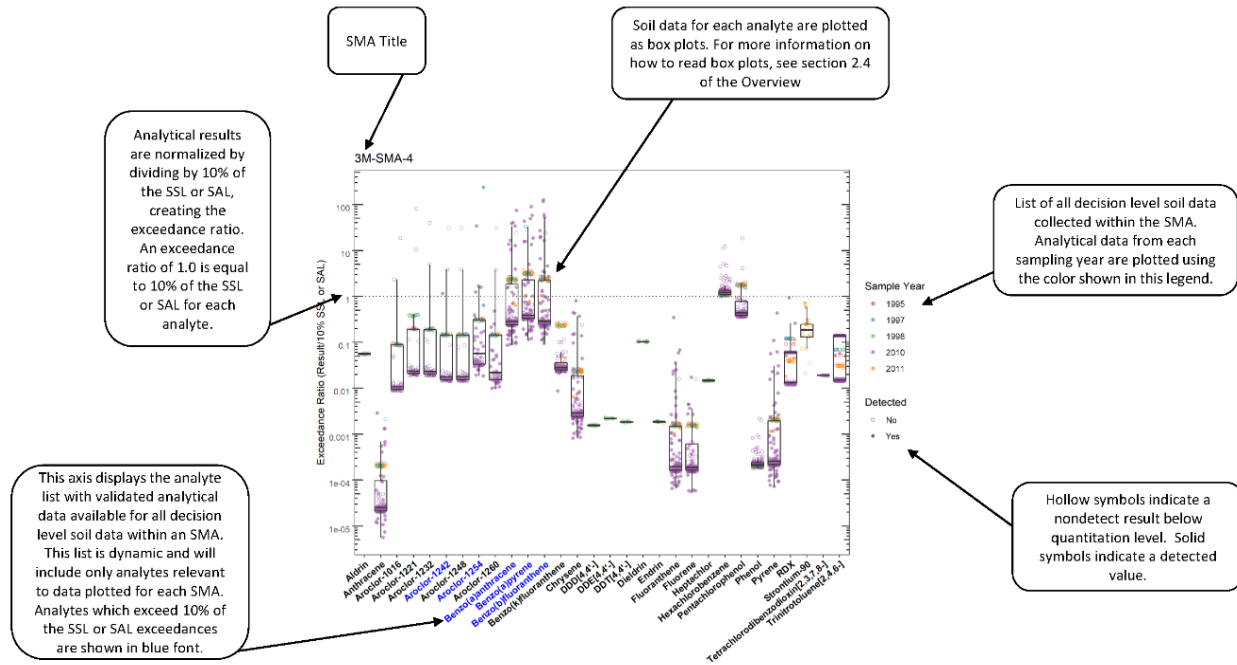


Figure 2.4-2 Organics Analytical Results (Soils) – Sample Plot with Explanations

3M-SMA-4

SMA	Parameter Code	Detected	Screening Type	Screening Level (mg/kg)	Max Result (mg/kg)	Date of Max Result
Antimony	3M-SMA-4 Sb	Y	BTV	0.830	23.8	2011-09-22
Aroclor-1242	3M-SMA-4 53469-21-9	Y	SSL_0.1	0.243	0.282	2010-01-19
Aroclor-1254	3M-SMA-4 11097-69-1	Y	SSL_0.1	0.114	27.0	1997-09-02
Benzo(a)anthracene	3M-SMA-4 56-55-3	Y	SSL_0.1	0.153	11.4	2010-02-23
Benzo(a)pyrene	3M-SMA-4 50-32-8	Y	SSL_0.1	0.112	10.1	2010-02-23
Benzo(b)fluoranthene	3M-SMA-4 205-99-2	Y	SSL_0.1	0.153	19.6	2010-02-23
Cadmium	3M-SMA-4 Cd	Y	BTV	0.400	12.9	2010-11-19
Chromium	3M-SMA-4 Cr	Y	BTV	19.3	99.0	2010-02-20
Cobalt	3M-SMA-4 Co	Y	BTV	8.64	17.1	2010-01-26
Copper	3M-SMA-4 Cu	Y	BTV	14.7	10300	2019-08-05
Cyanide (Total)	3M-SMA-4 CN(TOTAL)	Y	BTV	0.500	4.24	2010-02-25
Lead	3M-SMA-4 Pb	Y	BTV	22.3	1630	2019-08-09
Mercury	3M-SMA-4 Hg	Y	BTV	0.100	25.0	2010-02-20
Nickel	3M-SMA-4 Ni	Y	BTV	15.4	50.6	2011-09-08
Selenium	3M-SMA-4 Se	Y	BTV	1.52	2.20	2011-09-09
Silver	3M-SMA-4 Ag	Y	BTV	1.00	25.5	2010-11-19
Thallium	3M-SMA-4 Tl	Y	BTV	0.730	0.820	2011-09-09
Zinc	3M-SMA-4 Zn	Y	BTV	48.8	936	2010-02-23

Analytes which exceed the soil BV or 10% of the SSL or SAL are listed in the table here.
 If the analyte was detected, there is a 'Y' for yes. If the analyte is a nondetect, there is an 'N' for no.
 SMA Title
 The max result that exceeded the applicable screening level
 Sample collection date of max result
 Parameter code is listed here as either the abbreviation of the analyte or the CAS number.
 The applicable screening type is listed here it is either the soil BV 'BTV', 10% of the SSL 'SSL_0.1', or 10% of the SAL 'SAL_0.1'; the corresponding screening level is listed in the next column; units are mg/kg.

Figure 2.4-3 Screening-Level Exceedances (Soils) – Sample Plot with Explanations

2.5 SIP Section X.4, Stormwater Evaluation

This section describes the stormwater data, date of sample collection (if applicable), comparison with applicable TALs and BTVs, and any impairments associated with the receiving assessment unit. This information is used in the screening process outlined further in section 2.6.

2.5.1 SIP Section X.4.1, Summary of Stormwater Results Compared with TALs and BTVs

The stormwater analytical plots in this section include all analyzed parameters that have a TAL and/or a WQS. The plot contains the results for all analyzed metals, cyanide, gross-alpha radioactivity and radium, and organic compounds in the stormwater sample collected at the Site and associated SMA, per the requirements set forth in this SIP. Results are compared with the applicable TAL (shown as circles on the plots) and with the composite BTV, when available (triangles). The composite BTV calculation is included in Part I.C.2.b.i and the BTVs are in Appendix C of the Permit. The content of the plots will vary by SMA based on the amount of analytical data and number of samples collected.

Analytical results for each analyte presented in the plots are normalized by calculating an exceedance ratio, defined as the analytical result divided by the applicable TAL (ATAL, MTAL, or MQL) or composite BTV (Permit Part I.B.1.f). Thus, results exceeding the TAL and/or composite BTV will have an exceedance ratio greater than 1.0. For total aluminum and gross alpha, the result is first normalized by the SSC and then divided by the composite BTV to determine the BTV exceedance ratio. For ease of review, the SSC-normalized results for aluminum, gross alpha, and radium-226 and radium-228, where applicable, are included as Appendix C.

The exceedance ratios are plotted on a log scale to allow the display of a larger range of values. A solid symbol on the plot represents a result that is detected above the MDL, while a hollow symbol represents a value that is considered ND. A circle represents a result with a TAL and a WQS, while a square represents a result with only a WQS.

Figures 2.5-1 and 2.5-2 provide more specific details related to individual components of the stormwater analytical results and how they are represented on the plots and tables in the document.

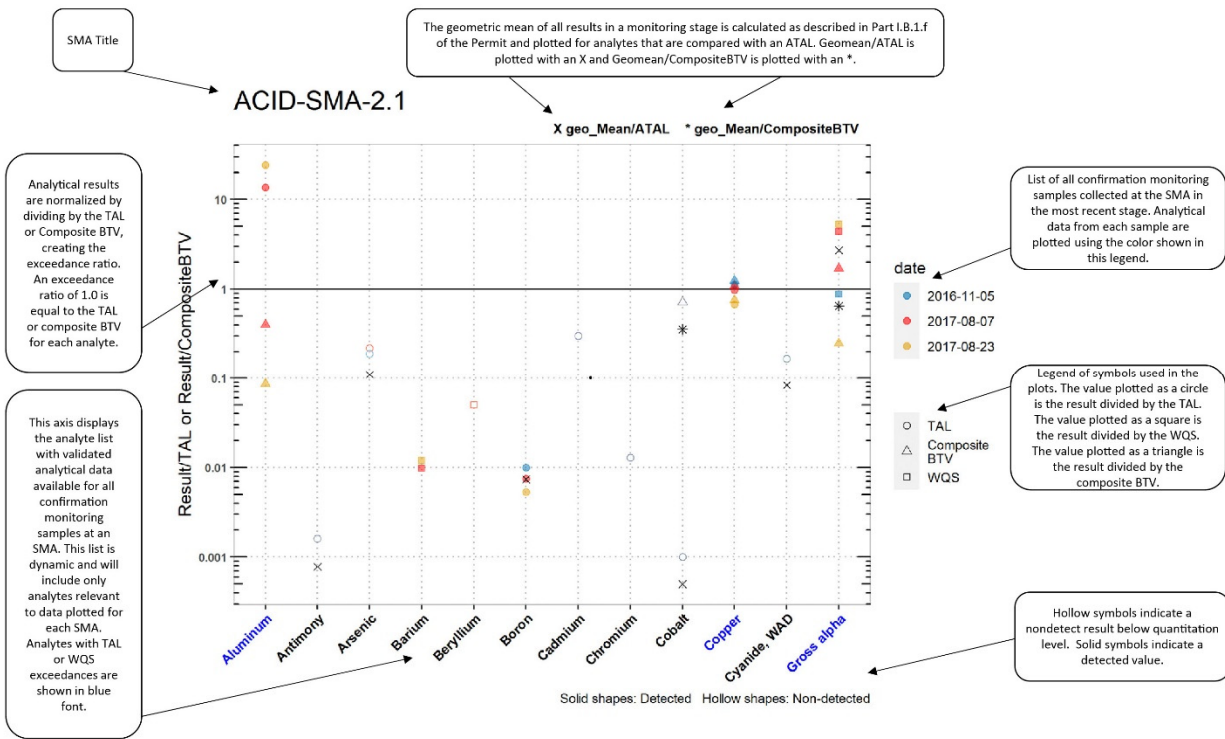


Figure 2.5-1 Analytical Results from Stormwater – Sample Plot with Explanations

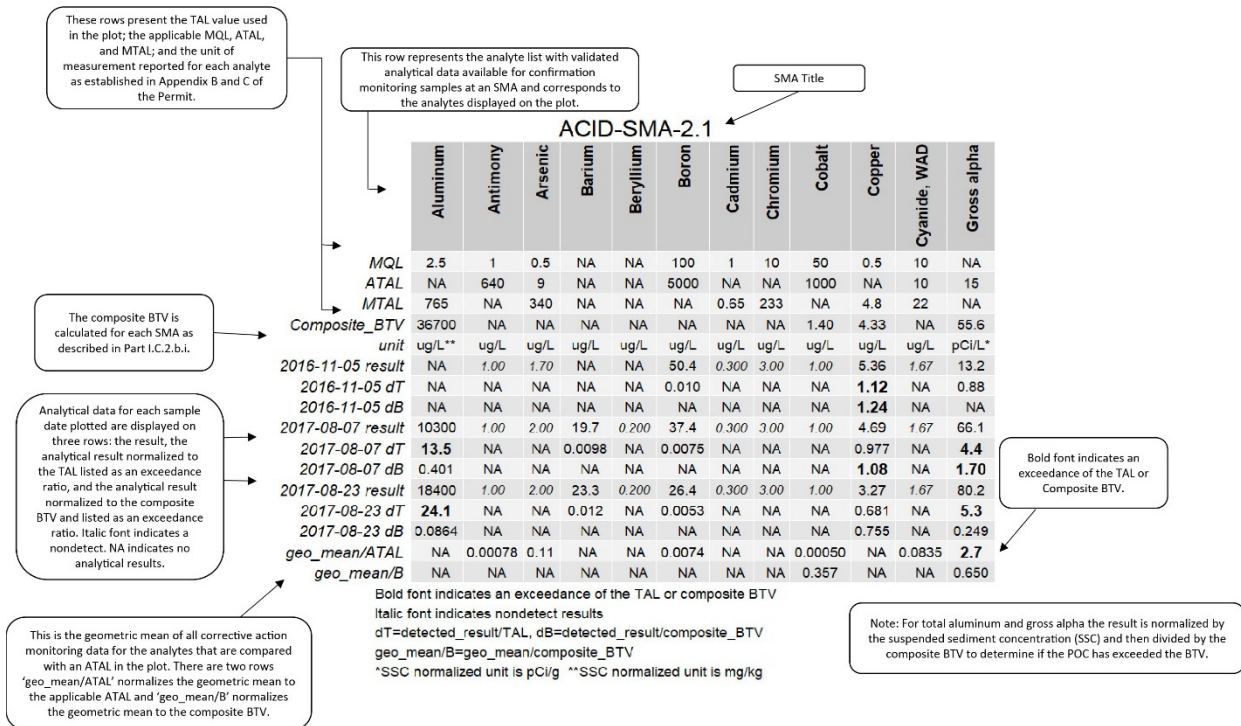


Figure 2.5-2 Analytical Results from Stormwater – Sample Table with Explanations

2.5.2 *SIP Section X.4.2, Assessment Unit and Stream Impairments*

A drainage analysis was conducted at each SMA to determine which assessment unit the SMA drains to. Assessment units are set by NMED-SWQB and are stream reaches intended to represent surface-water segments where the water quality is the same. The “2022–2024 State of New Mexico Clean Water Act 303(d)/305(b) Integrated Report” (<https://www.env.nm.gov/surface-water-quality/303d-305b/>) was used in this analysis to determine which impairments could be related to historic site activity, based on site history. A stream-reach impairment will be included in the sampling plan if it meets the following conditions:

- It is included in the Site history of an associated SMA as a potential POC and
- It has not yet been monitored at that SMA.

If it has been monitored at the SMA and exceeded TAL and BTV, it will continue to be monitored at the SMA. If the POC was monitored previously at the SMA and did not exceed TAL and BTV, it will not be included in the SAP.

2.6 *SIP Section X.5, Site-Specific Demonstration*

The SSD is the screening process used to review all data at an SMA and determine the current Permit status for that SMA, taking into account the following:

- Site history,
- applicable soil data, and
- stormwater data.

2.6.1 *SIP Section X.5.1, Soil Data Summary*

In this section, the soil plot and exceedance table (as described in section 2.4) is used to determine if all Site-related POCs that exceeded BVs, SSLs, or SALs in soil data were previously monitored in stormwater data. If Site-related POCs were not previously monitored in stormwater and they exceed the soil screening levels, they are added to the SAP for that SMA.

2.6.2 *SIP Section X.5.2, Stormwater Data Summary*

In this section, stormwater data are used to determine which POCs to include in the SAP.

- If, in a previous sample, a Site-related POC exceeded the TAL and composite BTV, it is included in the SAP for the SMA.
- If, in a previous sample, a Site-related POC exceeded the TAL but not the composite BTV, it is not included in the SAP for the SMA.
- If, in a previous sample, a Site-related POC exceeded the TAL and there is no composite BTV, it will be included in the SAP for the SMA.
- Instances in which there are no stormwater data for an SMA are noted in this section.

2.6.3 *SIP Section X.5.3, 2022 Permit Status*

The results of the SSD and the status of each SMA under the 2022 Permit (Active Monitoring, Active Monitoring/Corrective Action, Deletion, Long-Term Stewardship, or Corrective Action) are presented in this section.

2.6.4 SIP Section X.5.4, Sampling and Analysis Plan

This section describes the SAP for SMAs that are in Active Monitoring status. The SAP is a table with two columns:

- The first column identifies the POCs that will be monitored.
- The second column provides the background for including the POCs for monitoring. Possible rationales for monitoring include Site history, impairment, soil data, and/or stormwater data.

Unless otherwise denoted, two samples are planned for each POC. One sample is planned when the POC was analyzed for in a previous sample in the same stage at the SMA; in this case, a (1) is added behind the POC in the table. If 2 yr have passed since analytical results were received from the first sample at an SMA, the Permittees will act on the results from the first sample collected (Permit Part I.B.1.a).

Per Permit Part I.B.4, “in the event the volume of stormwater collected is insufficient to perform all required analysis listed in the SIP, the partial sample shall be analyzed in accordance with a priority list of Site-specific POCs determined based upon a review of site history, soil data, and other acceptable knowledge.” Prioritization of Site-related POCs shall be as follows:

- Site-related impairments,
- new POCs not previously analyzed in stormwater, and then
- all remaining POCs.

This is denoted in the SAP tables for each SMA by the order of analytes listed in the table.

Different analyses require different stormwater sample volumes. If the required volume for analyses cannot be met for a particular POC, the next POC on the prioritization list will be analyzed until all water in the partial sample can be used. If a second partial sample is collected at the same SMA, the remaining POCs that were not analyzed in the prior sample will be prioritized.

3.0 Site-Specific Screening Determinations

The results of the SSD are presented in the following sections. Because of the Permit issuance timeline, the 2022 SIP was implemented in monitoring year 2023 (approximately April to November 2023). All sampling results and other relevant changes to SMA information from 2022 and 2023 are incorporated into the 2023 SIP, which will be implemented in monitoring year 2024.

3.1 Active Monitoring

A total of 155 SMAs will be in Active Monitoring status for monitoring year 2024. These SMAs are included in Table 3.1-1. The master SAP in section 4 lists the POCs to be monitored at each SMA.

Table 3.1-1 SMAs in Active Monitoring Status for Monitoring Year 2024

SMA (Active Monitoring)				
2M-SMA-1.42	2M-SMA-1.43	2M-SMA-1.44	2M-SMA-1.45	2M-SMA-1.5
2M-SMA-1.67	2M-SMA-2.2	2M-SMA-2.5	2M-SMA-3 at SS193230	2M-SMA-3 at SS2439
3M-SMA-0.2	3M-SMA-0.5	3M-SMA-0.6	3M-SMA-2.6	ACID-SMA-1.05
ACID-SMA-2.01	A-SMA-2.5	A-SMA-2.7	A-SMA-2.8	A-SMA-3
A-SMA-4	B-SMA-0.5	CDB-SMA-0.15	CDB-SMA-1.15	CDB-SMA-4

Table 3.1-1 (continued)

SMA (Active Monitoring)				
CDV-SMA-1.2	CDV-SMA-1.3	CDV-SMA-1.4	CDV-SMA-1.45	CDV-SMA-1.7
CDV-SMA-2	CDV-SMA-2.3	CDV-SMA-2.42	CDV-SMA-2.51	CDV-SMA-3
CDV-SMA-4	CDV-SMA-6.01	CDV-SMA-7	CDV-SMA-8	CDV-SMA-8.5
CDV-SMA-9.05	CHQ-SMA-0.5	CHQ-SMA-1.01	CHQ-SMA-1.02	CHQ-SMA-3.05
CHQ-SMA-4	CHQ-SMA-4.1	CHQ-SMA-4.5	CHQ-SMA-5.05	CHQ-SMA-7.1
DP-SMA-0.3	DP-SMA-1	DP-SMA-2	DP-SMA-2.35	DP-SMA-3
LA-SMA-0.9	LA-SMA-1.25	LA-SMA-10.12	LA-SMA-2.1	LA-SMA-2.3
LA-SMA-3.9	LA-SMA-4.2	LA-SMA-5.01	LA-SMA-5.2	LA-SMA-5.33
LA-SMA-5.362	LA-SMA-5.51	LA-SMA-5.52	LA-SMA-5.53	LA-SMA-5.54
LA-SMA-5.91	LA-SMA-5.92	LA-SMA-6.25	LA-SMA-6.31	LA-SMA-6.32
LA-SMA-6.34	LA-SMA-6.38	LA-SMA-6.395	LA-SMA-6.5	LA-SMA-9
M-SMA-10	M-SMA-11.1	M-SMA-12	M-SMA-12.5	M-SMA-12.6
M-SMA-12.7	M-SMA-12.8	M-SMA-12.9	M-SMA-12.92	M-SMA-13
M-SMA-3	M-SMA-3.1	M-SMA-3.5	M-SMA-5	M-SMA-7.9
PJ-SMA-1.05	PJ-SMA-11	PJ-SMA-13.7	PJ-SMA-14.2	PJ-SMA-14.3
PJ-SMA-14.4	PJ-SMA-14.6	PJ-SMA-14.8	PJ-SMA-16	PJ-SMA-17
PJ-SMA-18	PJ-SMA-19	PJ-SMA-2	PJ-SMA-4.05	PJ-SMA-5.1
PJ-SMA-6	PJ-SMA-9.2	Pratt-SMA-1.05	P-SMA-0.3	P-SMA-1
P-SMA-2	P-SMA-2.15	P-SMA-2.2	PT-SMA-0.5	PT-SMA-2
PT-SMA-3	R-SMA-1	S-SMA-2.01	S-SMA-2.8	S-SMA-3.51
S-SMA-3.52	S-SMA-3.61	S-SMA-3.62	S-SMA-3.7	S-SMA-3.71
S-SMA-3.95	S-SMA-5	S-SMA-5.5	STRM-SMA-1.5	STRM-SMA-5.05
T-SMA-2.5	T-SMA-2.85	T-SMA-4	T-SMA-5	T-SMA-7
W-SMA-1	W-SMA-2.05	W-SMA-3.5	W-SMA-4.1	W-SMA-7
W-SMA-7.9	W-SMA-8	W-SMA-8.7	W-SMA-8.71	W-SMA-9.8
W-SMA-10	W-SMA-11.7	W-SMA-12.05	W-SMA-14.1	W-SMA-15.1

3.2 Deletion

Five SMAs and associated Sites are eligible for deletion based on the results reviewed in the 2022 SIP because all POCs have been monitored in stormwater data with no exceedances of the TAL or WQS. Consent Order investigations are complete (i.e., nature and extent have been defined) and all parameters that exceeded in soil data were monitored in stormwater data. The SMAs eligible for deletion from the Permit are included in Table 3.2-1.

Table 3.2-1 SMAs Eligible for Deletion for Monitoring Year 2024

SMA (Deletion)				
CDV-SMA-6.02	LA-SMA-1.1	R-SMA-2.3	S-SMA-4.1	W-SMA-9.05

3.3 Long-Term Stewardship

Thirty SMAs will be in Long-Term Stewardship status in 2024 based on the SSD. The initial SIP (N3B 2023, 702792) identified 32 SMAs that were placed in long-term stewardship in 2023. In 2024, one new SMA was placed into long-term stewardship (2M-SMA-1) while one SMA was moved from long-term stewardship into corrective action (W-SMA-1.5), and two SMAs were moved from long-term stewardship into active monitoring (W-SMA-1 and CDV-SMA-8). Sites are placed into long-term stewardship when

- all Sites within the SMA are deferred per the Consent Order (Part I.C.3),
- results exceed the TAL but do not exceed the composite BTV (when the composite BTV is greater than the TAL) (Part I.C.3.a),
- results exceed the HH-OO-based TALs but are below the wildlife habitat TALs for discharge to non-perennial streams (Part I.C.3.b),
- gross alpha was the sole TAL exceedance for samples collected under the 2010 Permit (Part I.C.3.c), or
- post-storm rain-event inspections have shown no evidence of stormwater discharges (per the requirements of Part I.B.8) from the Site for the past 5 yr (Part I.C.3.d).

The SMAs eligible for long-term stewardship are included in Table 3.3-1. The Permit reference for SMAs that are eligible for long-term stewardship because all Sites within the SMA are deferred per the Consent Order is listed directly in Part I.C.3, not in a subpart. The SMAs that are eligible via this criterion are shown in the first two columns of Table 3.3.-1.

Table 3.3-1 SMAs Eligible for Long-Term Stewardship for Monitoring Year 2024

SMA (Long-Term Stewardship per Permit Part I.C.3 Criterion)		SMA (Long-Term Stewardship per Permit Part I.C.3.a Criterion)	SMA (Long-Term Stewardship Permit Part I.C.3.c Criterion)
3M-SMA-0.4	A-SMA-1.1	2M-SMA-1	2M-SMA-1.65
A-SMA-2	A-SMA-3.5	CDV-SMA-2.5	B-SMA-1
F-SMA-2	LA-SMA-5.31	DP-SMA-0.6	M-SMA-10.01
LA-SMA-5.35	PJ-SMA-7	LA SMA-6.3	PT-SMA-1
PJ-SMA-8	PJ-SMA-10	M-SMA-1.21	W-SMA-9.9
PT-SMA-1.7	PT-SMA-2.01	M-SMA-1.22	
PT-SMA-4.2	R-SMA-1.95*	R-SMA-2.5	
S-SMA-6	W-SMA-9.5	W-SMA-6	
		W-SMA-7.8	

* SMA also qualifies for long-term stewardship pursuant to Part I.C.3.c criterion.

3.4 Corrective Action

Twenty-two SMAs have been screened into Corrective Action status. SMAs are screened into corrective action when one or more Site-related POC(s) exceed the TAL and composite BTV. The SMAs that have been screened into corrective action are included in Table 3.4-1. The master SAP in section 4 lists the POCs to be monitored at each SMA once corrective action is complete.

For samples collected under the 2010 Permit, corrective action will be completed within 2 yr from when the data from the second sample were received or within 2 yr of the effective date of the 2022 Permit, whichever is earlier. In July 2023, the Permittees submitted a compliance schedule for 34 SMAs that were screened into corrective action according to the 2022 Permit SSD (N3B 2023, 702831). For samples collected under the 2022 Permit, corrective action must be completed within 2 yr of when the SMA is placed into corrective action. Approximately January 15 of each year, when the draft SIP is submitted to NMED, will be used as the date the SMA is placed into corrective action.

Table 3.4-1 SMAs Screened into Corrective Action for Monitoring Year 2024

SMA (Corrective Action)				
2M-SMA-1.8	2M-SMA-2	ACID-SMA-2.1	CDB-SMA-0.25	CHQ-SMA-2
LA-SMA-0.85	LA-SMA-1	LA-SMA-4.1	LA-SMA-5.02	M-SMA-1
M-SMA-10.3	M-SMA-6	PJ-SMA-20	PJ-SMA-5	S-SMA-0.25
S-SMA-5.2	STRM-SMA-1.05	T-SMA-1	T-SMA-3	W-SMA-1.5
W-SMA-5	W-SMA-9.7			

3.5 Active Monitoring and Corrective Action

Twenty-eight SMAs have been screened into a combination of Active Monitoring/Corrective Action statuses. At these SMAs, the SSD reviewed stormwater data for samples that were collected under the 2010 Permit and are more than 2 yr old, and which had at least one TAL and composite BTV exceedance. Corrective action is required for the POC(s) that exceeded TAL and composite BTV in those samples. In July 2023, the Permittees submitted a compliance schedule for many of these SMAs (N3B 2023, 702831). However, the SSD also determined that not all Site-related POCs have been monitored. The master SAP in section 4 lists the POCs to be monitored at each SMA.

Table 3.5-1 SMAs Screened into Active Monitoring/Corrective Action for Monitoring Year 2024

SMA (Active Monitoring/Corrective Action)				
2M-SMA-1.7	2M-SMA-1.9	3M-SMA-4	ACID-SMA-2	A-SMA-6
CDB-SMA-0.55	CDB-SMA-1	CDV-SMA-2.41	CHQ-SMA-1.03	CHQ-SMA-6
DP-SMA-0.4	LA-SMA-3.1	LA-SMA-5.361	M-SMA-1.2	M-SMA-4
M-SMA-7	PJ-SMA-11.1	PJ-SMA-3.05	PJ-SMA-9	P-SMA-3.05
S-SMA-1.1	S-SMA-2	S-SMA-3.53	S-SMA-3.6	S-SMA-3.72
STRM-SMA-4.2	T-SMA-6.8	T-SMA-7.1		

4.0 Sampling Implementation Plan for Each Site Monitoring Area

This SIP will be implemented for monitoring year 2024, pending approval from EPA. Once it is approved by EPA, it will be added to the Permit as an appendix via a minor permit modification (Part I.E.2.f). The SMA status and SAP (as applicable) for all SMAs is included in the SIP. Table 4.0-1 shows the master SAP for the project, with 1 and 2 indicating the number of samples required. By default, two samples are planned for each POC. When one sample has already been collected for the monitoring stage, one additional sample is planned.

OVERVIEW

NPDES Permit No. NM0030759, March 2024

Table 4.0-1 Master Sampling and Analysis Plan for Monitoring Year 2024

Permit Sort Order	SMA	Latitude	Longitude	Status	Dissolved Organic Carbon	Suspended Sediment Concentration	Tritium	Strontium-90	Radium-226 and Radium-228	Gross Alpha	Total PCBs	SVOCs	Dissolved Antimony	Dissolved Arsenic	Dissolved Barium	Dissolved Beryllium	Dissolved Boron	Dissolved Cadmium	Dissolved Chromium	Dissolved Cobalt	Dissolved Copper	Dissolved Lead	Dissolved Manganese	Dissolved Nickel	Dissolved Silver	Dissolved Thallium	Dissolved Uranium	Dissolved Vanadium	Dissolved Zinc	Total Aluminum	Total Iron	Total Mercury	Total Molybdenum	Total Selenium	Total Cyanide	Asbestos	HE	Pesticides	Hexavalent Chromium	Tetrachlorodibenzodioxin[2,3,7,8-]	Chloride	Nitrate
119	2M-SMA-1	35.87306	-106.33083	Long-Term Stewardship	— ^a	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
120	2M-SMA-1.42	35.86489	-106.33428	Active Monitoring	2 ^b	2	—	—	—	—	—	—	—	—	—	—	—	—	2	—	2	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
121	2M-SMA-1.43	35.86136	-106.33382	Active Monitoring	2	2	—	—	—	—	1	2	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	—	—	—	—	—	—	
122	2M-SMA-1.44	35.86521	-106.33294	Active Monitoring	2	2	—	—	—	—	2	2	2	—	—	—	2	—	—	2	2	—	—	—	—	—	—	2	—	—	2	—	2	—	2	—	—	—	—	—	—	—
123	2M-SMA-1.45	35.86428	-106.33274	Active Monitoring	2	2	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
124	2M-SMA-1.5	35.86107	-106.33322	Active Monitoring	2	2	—	—	—	—	2	2	—	—	—	—	2	2	—	2	—	2	—	—	2	—	2	—	2	2	—	2	—	2	—	—	—	—	—	—	—	—
125	2M-SMA-1.65	35.86034	-106.32919	Long-Term Stewardship	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
126	2M-SMA-1.67	35.86319	-106.32634	Active Monitoring	1 ^c	1	—	—	—	—	—	—	—	—	1	—	—	—	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	—	—	—	—	
127	2M-SMA-1.7	35.86821	-106.32491	Active Monitoring/ Corrective Action	2	2	—	—	—	—	2	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
128	2M-SMA-1.8	35.86825	-106.32430	Corrective Action	2	2	—	—	—	—	2	2 ^d	—	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
129	2M-SMA-1.9	35.87215	-106.32594	Active Monitoring/ Corrective Action	2	2	—	—	—	—	2	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
130	2M-SMA-2	35.86841	-106.32273	Corrective Action	2	2	—	—	—	—	2	—	—	—	—	2	—	—	—	—	2	—	—	—	—	—	2	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—
131	2M-SMA-2.2	35.86906	-106.32147	Active Monitoring	2	2	—	—	—	—	2	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
133	2M-SMA-2.5	35.85730	-106.31854	Active Monitoring	2	2	—	—	—	—	2	2	—	—	—	—	1	1	—	—	1	1	—	—	—	1	—	1	1	—	1	1	—	—	—	1	—	—	—	—	—	—
132	2M-SMA-3 at SS193230	35.85911	-106.31390	Active Monitoring	2	2	2	—	1	1	—	—	—	—	—	—	1	1	—	1	1	1	1	—	—	—	1	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—
132	2M-SMA-3 at SS2439	35.86001	-106.31271	Active Monitoring	2	2	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
134	3M-SMA-0.2	35.84912	-106.30879	Active Monitoring	2	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	—	—	—	—	—	2	—	2	—	—	2	—	2	—	—	—	—	—	—	—	—
135	3M-SMA-0.4	35.84338	-106.29502	Long-Term Stewardship	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
136	3M-SMA-0.5	35.84338	-106.29043	Active Monitoring	2	2	—	2	—	1	2	2	—	—	—	2	—	—	—	—	1	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
137	3M-SMA-0.6	35.84532	-106.29037	Active Monitoring	2	2	—	—	—	2	—	—	—	—	—	2	—	—	—	—	2	2	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	2	—	—	—	—
138	3M-SMA-2.6	35.83891	-106.27309	Active Monitoring	2	2	—	—	—	—	2	2	—	—	—	2	2	2	2	2	2	2	2	—	2	—	2	—	2	—	—	2	—	—	—	—	—	—	—	—	—	—
139	3M-SMA-4	35.83918	-106.26936	Active Monitoring/ Corrective Action	2	2	—	—	—	—	2	2	—	—	2	2	—	—	—	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
7	ACID-SMA-1.05	35.88555	-106.30995	Active Monitoring	2	2	—	—	—	—	2	1	—	—	—	—	2	1	—	—	1	1	1	—	1	—	2	—	1	1	—	1	—	—	—	—	—	—	—	—	—	—
8	ACID-SMA-2	35.88671	-106.30727	Active Monitoring/ Corrective Action	2	2	—	2	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Table 4.1-1 (continued)

Permit Sort Order	SMA	Latitude	Longitude	Status	Dissolved Organic Carbon	Suspended Sediment Concentration	Tritium	Strontium-90	Radium-226 and Radium-228	Gross Alpha	Total PCBs	SVOCs	Dissolved Antimony	Dissolved Arsenic	Dissolved Barium	Dissolved Beryllium	Dissolved Boron	Dissolved Cadmium	Dissolved Chromium	Dissolved Cobalt	Dissolved Copper	Dissolved Lead	Dissolved Manganese	Dissolved Nickel	Dissolved Silver	Dissolved Thallium	Dissolved Uranium	Dissolved Vanadium	Dissolved Zinc	Total Aluminum	Total Iron	Total Mercury	Total Molybdenum	Total Selenium	Total Cyanide	Asbestos	HE	Pesticides	Hexavalent Chromium	Tetrachlorodibenzodioxin[2,3,7,8-]	Chloride	Nitrate			
9	ACID-SMA-2.01	35.88448	-106.30656	Active Monitoring	2	2	—	—	—	—	2	2	—	—	—	—	2	2	—	—	2	2	2	2	—	2	—	2	—	—	2	—	—	—	—	—	—	—	—	—	—	—			
10	ACID-SMA-2.1	35.88880	-106.30397	Corrective Action	2	2	—	—	—	—	2	—	—	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
219	A-SMA-1.1	35.80885	-106.26700	Long-Term Stewardship	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
220	A-SMA-2	35.80861	-106.26749	Long-Term Stewardship	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
221	A-SMA-2.5	35.80642	-106.26349	Active Monitoring	2	2	2	2	2	2	2	—	—	—	—	2	—	—	—	—	2	2	—	—	—	—	2	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	
222	A-SMA-2.7	35.80242	-106.26176	Active Monitoring	2	2	—	—	—	2	2	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
223	A-SMA-2.8	35.80211	-106.26120	Active Monitoring	2	2	—	—	—	1	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
224	A-SMA-3	35.79977	-106.26259	Active Monitoring	2	2	—	—	—	2	1	—	—	—	—	2	—	2	2	—	2	2	—	—	2	2	2	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	
225	A-SMA-3.5	35.78595	-106.25059	Long-Term Stewardship	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
226	A-SMA-4	35.77320	-106.23043	Active Monitoring	2	2	2	2	—	—	2	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
227	A-SMA-6	35.77150	-106.22970	Active Monitoring/ Corrective action	1	1	1	1	—	—	—	1	—	—	—	1	—	—	—	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	—	—	—	—	1	—	—	—	—	—	
5	B-SMA-0.5	35.88696	-106.24388	Active Monitoring	2	2	2	2	—	1	2	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
6	B-SMA-1	35.90022	-106.29622	Long-Term Stewardship	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
79	CDB-SMA-0.15	35.85982	-106.29199	Active Monitoring	2	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
80	CDB-SMA-0.25	35.85561	-106.28135	Corrective Action	2	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
81	CDB-SMA-0.55	35.85548	-106.28083	Active Monitoring/ Corrective Action	2	2	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
82	CDB-SMA-1	35.85293	-106.27970	Active Monitoring/ Corrective Action	2	2	2	2	—	—	1	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
83	CDB-SMA-1.15	35.85537	-106.28017	Active Monitoring	2	2	—	—	—	2	2	2	—	—	—	—	2	2	2	—	2	2	—	—	2	—	2	—	2	—	2	—	2	2	—	—	—	—	—	—	—	—	—	—	—
84	CDB-SMA-4	35.83289	-106.23944	Active Monitoring	2	2	—	—	—	2	—	—	—	—	—	—	—	—	—	—	2	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
169	CDV-SMA-1.2	35.84835	-106.34781	Active Monitoring	2	2	—	—	—	—	—	2	—	—	2	—	—	—	—	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
170	CDV-SMA-1.3	35.84823	-106.34714	Active Monitoring	2	2	—	—	—	2	2	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
171	CDV-SMA-1.4	35.85013	-106.34675	Active Monitoring	2	2	—	—	—	—	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	—	—	—	—	—	—	—	—	—	—	—	—	
172	CDV-SMA-1.45	35.84985	-106.34694	Active Monitoring	2	2	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
173	CDV-SMA-1.7	35.85100	-106.34221	Active Monitoring	2	2	—	—	—	—	—	—	—	—	2	—	2	2	—	2	2	2	2	2	2	—	2	—	2	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—
174	CDV-SMA-2	35.85041	-106.33986	Active Monitoring	2	2	—	—	—	2	—	—	—	—	2	2	—	2	2	2	2	2	2	2	2	—	2	2	2	2	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—
175	CDV-SMA-2.3	35.84610	-106.33307	Active Monitoring	2	2	—	—	—	—	2	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	

Table 4.1-1 (continued)

Permit Sort Order	SMA	Latitude	Longitude	Status	Dissolved Organic Carbon	Suspended Sediment Concentration	Tritium	Strontium-90	Radium-226 and Radium-228	Gross Alpha	Total PCBs	SVOCs	Dissolved Antimony	Dissolved Arsenic	Dissolved Barium	Dissolved Beryllium	Dissolved Boron	Dissolved Cadmium	Dissolved Chromium	Dissolved Cobalt	Dissolved Copper	Dissolved Lead	Dissolved Manganese	Dissolved Nickel	Dissolved Silver	Dissolved Thallium	Dissolved Uranium	Dissolved Vanadium	Dissolved Zinc	Total Aluminum	Total Iron	Total Mercury	Total Molybdenum	Total Selenium	Total Cyanide	Asbestos	HE	Pesticides	Hexavalent Chromium	Tetrachlorodibenzodioxin[2,3,7,8-]	Chloride	Nitrate	
176	CDV-SMA-2.41	35.84996	-106.33273	Active Monitoring/ Corrective Action	2	2	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	—	—	—	—	—			
177	CDV-SMA-2.42	35.84908	-106.33209	Active Monitoring	1	1	—	—	—	—	1	—	—	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	—	—	1	—	—	
178	CDV-SMA-2.5	35.84652	-106.33079	Long-Term Stewardship	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
179	CDV-SMA-2.51	35.84696	-106.32992	Active Monitoring	2	2	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
180	CDV-SMA-3	35.84777	-106.32067	Active Monitoring	2	2	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
181	CDV-SMA-4	35.84797	-106.31973	Active Monitoring	2	2	2	—	2	2	2	2	2	—	—	—	2	—	2	2	2	2	—	2	2	2	2	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	
182	CDV-SMA-6.01	35.84780	-106.31693	Active Monitoring	2	2	—	—	2	2	—	—	—	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	—	—	—		
183	CDV-SMA-6.02	35.84774	-106.31628	SMA Deletion	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
184	CDV-SMA-7	35.84531	-106.31173	Active Monitoring	2	2	—	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	—	—		
185	CDV-SMA-8	35.84427	-106.31015	Active Monitoring	2	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	—	—		
186	CDV-SMA-8.5	35.84136	-106.31146	Active Monitoring	2	2	—	—	—	—	2	2	—	—	—	—	—	—	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
187	CDV-SMA-9.05	35.83612	-106.30591	Active Monitoring	2	2	2	2	—	1	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	—	—	2	—	—
228	CHQ-SMA-0.5	35.78388	-106.25917	Active Monitoring	2	2	—	—	—	—	1	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
229	CHQ-SMA-1.01	35.78250	-106.25472	Active Monitoring	2	2	2	—	—	—	1	—	1	—	1	—	1	1	1	—	1	1	—	—	1	—	1	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—
230	CHQ-SMA-1.02	35.78273	-106.25466	Active Monitoring	2	2	—	—	—	—	2	2	—	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
231	CHQ-SMA-1.03	35.78257	-106.25424	Active Monitoring/ Corrective Action	2	2	—	—	—	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	—	—	—	
232	CHQ-SMA-2	35.78154	-106.25810	Corrective Action	2	2	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
233	CHQ-SMA-3.05	35.78179	-106.25416	Active Monitoring	2	2	2	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
234	CHQ-SMA-4	35.78070	-106.25577	Active Monitoring	2	2	—	—	—	2	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
235	CHQ-SMA-4.1	35.77891	-106.25592	Active Monitoring	2	2	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	—	—	—	
236	CHQ-SMA-4.5	35.77625	-106.24670	Active Monitoring	2	2	—	—	—	2	2	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	2	—	—	—	
237	CHQ-SMA-5.05	35.77156	-106.25358	Active Monitoring	2	2	2	2	2	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
238	CHQ-SMA-6	35.77084	-106.25220	Active Monitoring/ Corrective Action	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
239	CHQ-SMA-7.1	35.77146	-106.25041	Active Monitoring	2	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
52	DP-SMA-0.3	35.88002	-106.28875	Active Monitoring	2	2	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
53	DP-SMA-0.4	35.87879	-106.27880	Active Monitoring/ Corrective Action	2	2	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	

Table 4.1-1 (continued)

Permit Sort Order	SMA	Latitude	Longitude	Status	Dissolved Organic Carbon	Suspended Sediment Concentration	Tritium	Strontium-90	Radium-226 and Radium-228	Gross Alpha	Total PCBs	SVOCs	Dissolved Antimony	Dissolved Arsenic	Dissolved Barium	Dissolved Beryllium	Dissolved Boron	Dissolved Cadmium	Dissolved Chromium	Dissolved Cobalt	Dissolved Copper	Dissolved Lead	Dissolved Manganese	Dissolved Nickel	Dissolved Silver	Dissolved Thallium	Dissolved Uranium	Dissolved Vanadium	Dissolved Zinc	Total Aluminum	Total Iron	Total Mercury	Total Molybdenum	Total Selenium	Total Cyanide	Asbestos	HE	Pesticides	Hexavalent Chromium	Tetrachlorodibenzodioxin[2,3,7,8-]	Chloride	Nitrate		
54	DP-SMA-0.6	35.87784	-106.27750	Long-Term Stewardship	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
55	DP-SMA-1	35.87764	-106.27451	Active Monitoring	2	2	2	2	—	1	—	—	—	—	—	—	1	1	—	—	1	—	—	—	—	—	1	—	—	1	—	1	—	—	—	—	—	—	—	—	—	—	—	—
56	DP-SMA-2	35.87739	-106.27239	Active Monitoring	2	2	2	—	2	2	2	2	—	2	—	—	2	2	2	—	2	2	2	—	—	—	—	—	2	—	—	2	—	2	2	—	—	—	—	—	—	—	—	—
57	DP-SMA-2.35	35.87667	-106.27174	Active Monitoring	2	2	2	—	—	2	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
58	DP-SMA-3	35.87648	-106.27090	Active Monitoring	2	2	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
188	F-SMA-2	35.82732	-106.27673	Long-Term Stewardship	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
17	LA-SMA-0.85	35.87873	-106.32351	Corrective Action	2	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
18	LA-SMA-0.9	35.87964	-106.32146	Active Monitoring	2	2	2	—	2	2	—	—	—	—	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
19	LA-SMA-1	35.88018	-106.32128	Corrective Action	2	2	—	—	—	2	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
20	LA-SMA-1.1	35.88057	-106.32109	SMA Deletion	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
21	LA-SMA-1.25	35.87992	-106.32066	Active Monitoring	2	2	2	—	2	2	—	—	—	—	—	—	2	2	2	—	2	2	—	—	2	—	2	—	2	—	2	—	—	2	—	2	—	—	—	—	—	—	—	—
51	LA-SMA-10.12	35.86666	-106.25086	Active Monitoring	2	2	2	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
22	LA-SMA-2.1	35.87899	-106.31026	Active Monitoring	2	2	—	—	2	2	2	2	2	—	—	—	2	2	2	—	2	2	2	2	2	—	2	—	2	—	2	—	—	2	—	2	—	—	—	—	—	—	—	—
23	LA-SMA-2.3	35.87905	-106.30927	Active Monitoring	2	2	—	—	—	2	2	2	—	—	—	—	—	2	2	—	2	2	—	2	2	—	—	—	—	2	—	—	2	—	—	2	—	2	2	—	—	—	—	—
24	LA-SMA-3.1	35.87835	-106.30732	Active Monitoring/ Corrective Action	2	2	2	—	—	—	—	2	—	—	1	1	1	1	1	—	—	1	1	—	1	—	1	—	—	—	—	1	—	1	1	—	—	—	—	—	—	—	—	—
25	LA-SMA-3.9	35.87875	-106.30589	Active Monitoring	2	2	2	—	2	2	2	2	—	—	—	—	2	—	2	—	—	2	—	—	—	—	2	—	2	—	—	2	—	—	2	—	2	—	—	—	—	—	—	—
26	LA-SMA-4.1	35.87849	-106.30525	Corrective Action	2	2	—	—	—	2	2	—	—	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
27	LA-SMA-4.2	35.87843	-106.30490	Active Monitoring	2	2	2	—	2	2	2	2	—	—	—	—	2	—	2	2	—	2	2	2	—	—	2	—	2	—	2	—	—	2	—	—	—	—	—	—	—	—	—	—
28	LA-SMA-5.01	35.87819	-106.30305	Active Monitoring	2	2	2	—	—	2	2	2	—	—	—	2	2	—	2	—	2	2	—	—	2	—	—	—	—	2	—	—	2	—	—	2	—	2	—	—	—	2	—	—
29	LA-SMA-5.02	35.87841	-106.30286	Corrective Action	2	2	—	—	—	—	2	—	—	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
30	LA-SMA-5.2	35.87717	-106.30188	Active Monitoring	2	2	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	
31	LA-SMA-5.31	35.87666	-106.29638	Long-Term Stewardship	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
32	LA-SMA-5.33	35.87789	-106.29601	Active Monitoring	2	2	2	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
33	LA-SMA-5.35	35.87662	-106.29694	Long-Term Stewardship	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
34	LA-SMA-5.361	35.87665	-106.29534	Active Monitoring/ Corrective Action	2	2	—	—	—	—	2	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
35	LA-SMA-5.362	35.87774	-106.29519	Active Monitoring	2	2	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Table 4.1-1 (continued)

Permit Sort Order	SMA	Latitude	Longitude	Status	Dissolved Organic Carbon	Suspended Sediment Concentration	Tritium	Strontium-90	Radium-226 and Radium-228	Gross Alpha	Total PCBs	SVOCs	Dissolved Antimony	Dissolved Arsenic	Dissolved Barium	Dissolved Beryllium	Dissolved Boron	Dissolved Cadmium	Dissolved Chromium	Dissolved Cobalt	Dissolved Copper	Dissolved Lead	Dissolved Manganese	Dissolved Nickel	Dissolved Silver	Dissolved Thallium	Dissolved Uranium	Dissolved Vanadium	Dissolved Zinc	Total Aluminum	Total Iron	Total Mercury	Total Molybdenum	Total Selenium	Total Cyanide	Asbestos	HE	Pesticides	Hexavalent Chromium	Tetrachlorodibenzodioxin[2,3,7,8-]	Chloride	Nitrate
36	LA-SMA-5.51	35.87632	-106.29038	Active Monitoring	2	2	—	2	—	2	2	2	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	2	—	—	—	2	—	—	—	2	—	—	—
37	LA-SMA-5.52	35.87637	-106.29001	Active Monitoring	2	2	—	2	—	2	2	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—
38	LA-SMA-5.53	35.87609	-106.28976	Active Monitoring	2	2	2	2	2	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
39	LA-SMA-5.54	35.87623	-106.28928	Active Monitoring	2	2	—	2	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
40	LA-SMA-5.91	35.87702	-106.28209	Active Monitoring	2	2	—	—	—	2	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
41	LA-SMA-5.92	35.87664	-106.28161	Active Monitoring	2	2	—	—	—	2	—	—	—	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	
42	LA-SMA-6.25	35.87513	-106.27930	Active Monitoring	2	2	2	2	2	2	2	2	—	2	—	—	2	2	2	2	2	2	2	2	2	—	2	—	2	—	—	2	—	2	2	—	—	—	—	—	—	—
43	LA-SMA-6.3	35.87497	-106.27852	Long-Term Stewardship	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
44	LA-SMA-6.31	35.87477	-106.27796	Active Monitoring	2	2	2	—	2	2	2	2	2	—	—	—	2	2	2	—	2	2	—	—	—	—	—	—	2	—	—	2	—	2	2	—	—	—	—	—	—	—
45	LA-SMA-6.32	35.87569	-106.27688	Active Monitoring	2	2	—	2	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
46	LA-SMA-6.34	35.87435	-106.27651	Active Monitoring	2	2	—	—	2	2	2	2	—	—	—	—	2	2	2	—	2	2	—	—	2	—	—	—	2	—	2	2	—	2	2	—	—	—	—	—	—	—
47	LA-SMA-6.38	35.87409	-106.27430	Active Monitoring	2	2	2	—	2	2	2	2	—	—	—	—	2	2	—	—	2	2	—	—	—	—	2	—	2	—	—	2	—	2	2	—	—	—	—	—	—	—
48	LA-SMA-6.395	35.87370	-106.27327	Active Monitoring	2	2	2	—	—	2	2	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
49	LA-SMA-6.5	35.87395	-106.27101	Active Monitoring	2	2	2	—	2	2	2	2	2	2	2	—	2	2	2	—	2	2	—	—	—	2	—	—	2	—	—	2	—	2	2	—	—	—	—	—	—	—
50	LA-SMA-9	35.87350	-106.25405	Active Monitoring	2	2	2	—	—	1	2	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	1	—	—	—	—	—	—	
85	M-SMA-1	35.87009	-106.31917	Corrective Action	2	2	—	—	—	—	—	—	—	—	—	2	—	2	—	—	2	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	
86	M-SMA-1.2	35.86991	-106.31648	Active Monitoring/ Corrective Action	2	2	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	—	—	
87	M-SMA-1.21	35.87069	-106.31721	Long-Term Stewardship	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
88	M-SMA-1.22	35.87063	-106.31807	Long-Term Stewardship	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
97	M-SMA-10	35.86451	-106.29426	Active Monitoring	2	2	—	—	—	—	2	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
98	M-SMA-10.01	35.86470	-106.29403	Long-Term Stewardship	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
99	M-SMA-10.3	35.86465	-106.29317	Corrective Action	2	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—
100	M-SMA-11.1	35.86396	-106.29063	Active Monitoring	2	2	2	—	2	2	2	2	—	—	—	—	2	—	2	—	2	2	—	2	—	—	—	—	—	2	—	—	2	—	—	—	—	—	—	—	—	—
101	M-SMA-12	35.86355	-106.28925	Active Monitoring	2	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—
102	M-SMA-12.5	35.85791	-106.27678	Active Monitoring	2	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
103	M-SMA-12.6	35.85772	-106.27450	Active Monitoring	1	1	—	—	—	—	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
104	M-SMA-12.7	35.85922	-106.27066	Active Monitoring	1	1	—	—	—	1	—	1 ^d	—	—	—	—	—	1	—	—	—	1	1	—	—	—	—	1	—	1	—	—	1	—	—	—	—	—	—	—	—	—

Table 4.1-1 (continued)

Permit Sort Order	SMA	Latitude	Longitude	Status	Dissolved Organic Carbon	Suspended Sediment Concentration	Tritium	Strontium-90	Radium-226 and Radium-228	Gross Alpha	Total PCBs	SVOCs	Dissolved Antimony	Dissolved Arsenic	Dissolved Barium	Dissolved Beryllium	Dissolved Boron	Dissolved Cadmium	Dissolved Chromium	Dissolved Cobalt	Dissolved Copper	Dissolved Lead	Dissolved Manganese	Dissolved Nickel	Dissolved Silver	Dissolved Thallium	Dissolved Uranium	Dissolved Vanadium	Dissolved Zinc	Total Aluminum	Total Iron	Total Mercury	Total Molybdenum	Total Selenium	Total Cyanide	Asbestos	HE	Pesticides	Hexavalent Chromium	Tetrachlorodibenzodioxin[2,3,7,8-]	Chloride	Nitrate		
105	M-SMA-12.8	35.85918	-106.27023	Active Monitoring	2	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
106	M-SMA-12.9	35.85877	-106.26926	Active Monitoring	2	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
107	M-SMA-12.92	35.86086	-106.26836	Active Monitoring	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	—	2	2	—	2	—	—	—	—	2	—	—	—		
108	M-SMA-13	35.85706	-106.26539	Active Monitoring	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
89	M-SMA-3	35.86688	-106.30656	Active Monitoring	2	2	2	—	—	2	1	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
90	M-SMA-3.1	35.86694	-106.30603	Active Monitoring	2	2	2	2	2	2	—	—	—	—	—	—	—	—	2	—	2	2	—	—	—	—	2	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
91	M-SMA-3.5	35.86692	-106.30490	Active Monitoring	2	2	2	—	2	2	2	2	—	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
92	M-SMA-4	35.86549	-106.30402	Active Monitoring/ Corrective Action	1	1	—	—	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
93	M-SMA-5	35.86449	-106.30103	Active Monitoring	2	2	—	2	2	2	—	2	—	—	2	—	2	—	2	—	—	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
94	M-SMA-6	35.86377	-106.29744	Corrective Action	2	2	2	—	—	—	2	—	—	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
95	M-SMA-7	35.86432	-106.29876	Active Monitoring/ Corrective Action	2	2	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
96	M-SMA-7.9	35.86545	-106.29668	Active Monitoring	1	1	—	—	1	1	—	—	1	1	1	—	2	1	1	—	1	1	1	1	—	1	—	—	1	—	—	1	—	—	—	—	—	—	—	—	—	—	—	
140	PJ-SMA-1.05	35.86236	-106.34178	Active Monitoring	2	2	—	—	—	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	—	2	—	2	2	—	—	—	—		
151	PJ-SMA-10	35.85642	-106.31600	Long-Term Stewardship	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
152	PJ-SMA-11	35.85601	-106.31126	Active Monitoring	2	2	—	—	—	—	2	—	—	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	—	—	—		
153	PJ-SMA-11.1	35.85606	-106.31110	Active Monitoring/ Corrective Action	2	2	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
154	PJ-SMA-13.7	35.84007	-106.26638	Active Monitoring	2	2	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	2	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
155	PJ-SMA-14.2	35.83962	-106.26559	Active Monitoring	2	2	—	—	—	2	—	—	—	—	—	2	—	—	—	—	—	—	—	—	2	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
156	PJ-SMA-14.3	35.83939	-106.26503	Active Monitoring	2	2	—	—	—	2	2	2	—	—	—	2	—	—	—	—	—	—	—	—	2	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
157	PJ-SMA-14.4	35.83967	-106.26494	Active Monitoring	2	2	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	2	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
158	PJ-SMA-14.6	35.83956	-106.26443	Active Monitoring	2	2	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	2	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
159	PJ-SMA-14.8	35.83831	-106.26427	Active Monitoring	2	2	—	—	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
160	PJ-SMA-16	35.83057	-106.24817	Active Monitoring	2	2	—	—	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
161	PJ-SMA-17	35.83014	-106.24266	Active Monitoring	2	2	—	—	—	1	1	—	—	—	—	—	—	—	—	—	—	1	—	—	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	2	—	—	—	
162	PJ-SMA-18	35.82891	-106.23792	Active Monitoring	2	2	—	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	2	—	—	
163	PJ-SMA-19	35.82923	-106.23679	Active Monitoring	2	2	2	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
141	PJ-SMA-2	35.85724	-106.34125	Active Monitoring	2	2	—	2	—	—	2	2	—	—	—	—	1	1	—	1	1	—	—	—	1	—	1	1	1	1	1	1	1	—	1	—	—	—	—	—	—	—	—	—
164	PJ-SMA-20	35.82974	-106.23466	Corrective Action	2	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	

Table 4.1-1 (continued)

Permit Sort Order	SMA	Latitude	Longitude	Status	Dissolved Organic Carbon	Suspended Sediment Concentration	Tritium	Strontium-90	Radium-226 and Radium-228	Gross Alpha	Total PCBs	SVOCs	Dissolved Antimony	Dissolved Arsenic	Dissolved Barium	Dissolved Beryllium	Dissolved Boron	Dissolved Cadmium	Dissolved Chromium	Dissolved Cobalt	Dissolved Copper	Dissolved Lead	Dissolved Manganese	Dissolved Nickel	Dissolved Silver	Dissolved Thallium	Dissolved Uranium	Dissolved Vanadium	Dissolved Zinc	Total Aluminum	Total Iron	Total Mercury	Total Molybdenum	Total Selenium	Total Cyanide	Asbestos	HE	Pesticides	Hexavalent Chromium	Tetrachlorodibenzodioxin[2,3,7,8-]	Chloride	Nitrate	
142	PJ-SMA-3.05	35.85672	-106.33916	Active Monitoring/ Corrective Action	1	1	—	—	—	—	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	—	—	—	—	—		
143	PJ-SMA-4.05	35.85374	-106.33571	Active Monitoring	2	2	—	—	—	—	2	2	—	—	—	—	—	—	—	—	2	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
144	PJ-SMA-5	35.85962	-106.33492	Corrective Action	2	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
145	PJ-SMA-5.1	35.85896	-106.33386	Active Monitoring	2	2	—	—	—	—	2	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
146	PJ-SMA-6	35.85731	-106.32934	Active Monitoring	2	2	—	—	—	—	2	2	1	—	—	—	1	—	—	—	1	1	—	—	1	—	1	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	
147	PJ-SMA-7	35.85689	-106.32176	Long-Term Stewardship	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
148	PJ-SMA-8	35.85703	-106.32060	Long-Term Stewardship	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
149	PJ-SMA-9	35.85672	-106.31951	Active Monitoring/ Corrective Action	2	2	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	—	—
150	PJ-SMA-9.2	35.85655	-106.31888	Active Monitoring	2	2	—	—	—	—	2	2	—	—	—	—	2	2	—	—	2	2	—	—	2	—	2	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	
109	Pratt-SMA-1.05	35.86217	-106.28731	Active Monitoring	2	2	—	2	—	2	2	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
11	P-SMA-0.3	35.88213	-106.23874	Active Monitoring	1	1	—	—	—	1	1	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
12	P-SMA-1	35.88301	-106.26539	Active Monitoring	2	2	—	—	—	2	2	2	—	—	—	2	—	2	2	—	2	2	—	2	2	—	2	—	2	—	—	—	—	—	—	—	—	—	—	—	2	—	—
13	P-SMA-2	35.88417	-106.27478	Active Monitoring	2	2	2	—	2	2	2	2	2	2	2	2	—	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	—	2	—	—	—	2	—	—	
14	P-SMA-2.15	35.88528	-106.27951	Active Monitoring	2	2	—	—	—	—	2	2	—	—	—	—	2	—	—	—	2	2	—	—	—	—	2	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	
15	P-SMA-2.2	35.88411	-106.28633	Active Monitoring	2	2	2	—	—	2	2	2	2	2	2	2	—	2	2	—	2	2	—	2	2	2	—	2	2	—	—	—	—	—	—	—	—	—	—	—	—	—	
16	P-SMA-3.05	35.88993	-106.30863	Active Monitoring/ Corrective Action	2	2	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
189	PT-SMA-0.5	35.83918	-106.29948	Active Monitoring	2	2	—	—	—	2	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
190	PT-SMA-1	35.83783	-106.29758	Long-Term Stewardship	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
191	PT-SMA-1.7	35.83340	-106.29452	Long-Term Stewardship	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
192	PT-SMA-2	35.83651	-106.29234	Active Monitoring	2	2	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
193	PT-SMA-2.01	35.83654	-106.29184	Long-Term Stewardship	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
194	PT-SMA-3	35.83369	-106.28074	Active Monitoring	1	1	—	—	—	1	—	—	—	—	—	—	—	—	—	—	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
195	PT-SMA-4.2	35.82428	-106.24869	Long-Term Stewardship	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
1	R-SMA-1	35.90749	-106.29976	Active Monitoring	2	2	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	

Table 4.1-1 (continued)

Permit Sort Order	SMA	Latitude	Longitude	Status	Dissolved Organic Carbon	Suspended Sediment Concentration	Tritium	Strontium-90	Radium-226 and Radium-228	Gross Alpha	Total PCBs	SVOCs	Dissolved Antimony	Dissolved Arsenic	Dissolved Barium	Dissolved Beryllium	Dissolved Boron	Dissolved Cadmium	Dissolved Chromium	Dissolved Cobalt	Dissolved Copper	Dissolved Lead	Dissolved Manganese	Dissolved Nickel	Dissolved Silver	Dissolved Thallium	Dissolved Uranium	Dissolved Vanadium	Dissolved Zinc	Total Aluminum	Total Iron	Total Mercury	Total Molybdenum	Total Selenium	Total Cyanide	Asbestos	HE	Pesticides	Hexavalent Chromium	Tetrachlorodibenzodioxin[2,3,7,8-]	Chloride	Nitrate		
2	R-SMA-1.95	35.91000	-106.27458	Long-Term Stewardship	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
3	R-SMA-2.3	35.91417	-106.27481	SMA Deletion	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
4	R-SMA-2.5	35.91077	-106.26755	Long-Term Stewardship	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
59	S-SMA-0.25	35.87623	-106.32230	Corrective Action	2	2	—	—	—	—	—	—	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
60	S-SMA-1.1	35.87598	-106.31809	Active Monitoring/ Corrective Action	2	2	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
61	S-SMA-2	35.87517	-106.31850	Active Monitoring/ Corrective Action	2	2	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	—	—	—	
62	S-SMA-2.01	35.87259	-106.31721	Active Monitoring	2	2	2	2	2	2	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
63	S-SMA-2.8	35.87493	-106.31678	Active Monitoring	2	2	2	2	2	2	2	—	—	—	—	—	—	2	2	—	2	2	—	2	2	—	2	—	2	2	—	2	—	—	2	—	—	—	—	—	—	—	—	—
64	S-SMA-3.51	35.87352	-106.31615	Active Monitoring	2	2	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
65	S-SMA-3.52	35.87390	-106.31632	Active Monitoring	2	2	—	—	—	—	—	2	—	—	—	—	—	2	—	2	2	—	2	—	2	—	2	—	2	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—
66	S-SMA-3.53	35.87527	-106.31586	Active Monitoring/ Corrective Action	2	2	2	2	—	1	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
67	S-SMA-3.6	35.87348	-106.31287	Active Monitoring/ Corrective Action	1	1	—	—	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
68	S-SMA-3.61	35.87187	-106.31314	Active Monitoring	2	2	—	—	—	—	2	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
69	S-SMA-3.62	35.87157	-106.31258	Active Monitoring	1	1	—	—	—	—	1	1	—	—	1	—	—	—	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
70	S-SMA-3.7	35.86830	-106.27451	Active Monitoring	2	2	2	—	1	1	1	2	1	—	—	—	1	1	1	—	1	1	—	1	1	—	—	—	—	1	1	—	1	2	—	2	—	—	—	—	—	—	—	
71	S-SMA-3.71	35.86906	-106.27395	Active Monitoring	2	2	—	—	—	—	2	2	—	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	2	—	2	—	—	—	—	—	—	—	—	—	—	
72	S-SMA-3.72	35.86804	-106.27407	Active Monitoring/ Corrective Action	2	2	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
73	S-SMA-3.95	35.86545	-106.26377	Active Monitoring	2	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
74	S-SMA-4.1	35.86750	-106.26206	SMA Deletion	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
75	S-SMA-5	35.86376	-106.25784	Active Monitoring	2	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	—	—	—	—	
76	S-SMA-5.2	35.86407	-106.25731	Corrective Action	2	2	—	—	—	—	2 ^d	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
77	S-SMA-5.5	35.86300	-106.25534	Active Monitoring	2	2	—	—	—	—	2	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
78	S-SMA-6	35.86384	-106.24817	Long-Term Stewardship	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
165	STRM-SMA-1.05	35.85963	-106.34929	Corrective Action	2	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Table 4.1-1 (continued)

Permit Sort Order	SMA	Latitude	Longitude	Status	Dissolved Organic Carbon	Suspended Sediment Concentration	Tritium	Strontium-90	Radium-226 and Radium-228	Gross Alpha	Total PCBs	SVOCs	Dissolved Antimony	Dissolved Arsenic	Dissolved Barium	Dissolved Beryllium	Dissolved Boron	Dissolved Cadmium	Dissolved Chromium	Dissolved Cobalt	Dissolved Copper	Dissolved Lead	Dissolved Manganese	Dissolved Nickel	Dissolved Silver	Dissolved Thallium	Dissolved Uranium	Dissolved Vanadium	Dissolved Zinc	Total Aluminum	Total Iron	Total Mercury	Total Molybdenum	Total Selenium	Total Cyanide	Asbestos	HE	Pesticides	Hexavalent Chromium	Tetrachlorodibenzodioxin[2,3,7,8-]	Chloride	Nitrate			
166	STRM-SMA-1.5	35.86085	-106.34906	Active Monitoring	2	2	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
167	STRM-SMA-4.2	35.85878	-106.34480	Active Monitoring/ Corrective Action	2	2	—	1	—	—	1	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
168	STRM-SMA-5.05	35.85951	-106.33981	Active Monitoring	2	2	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	2	—	—	—	—	—	—	—		
110	T-SMA-1	35.86140	-106.29730	Corrective Action	2	2	—	—	—	—	2	—	—	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
111	T-SMA-2.5	35.86160	-106.29451	Active Monitoring	2	2	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
112	T-SMA-2.85	35.86160	-106.29367	Active Monitoring	2	2	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
113	T-SMA-3	35.86160	-106.29309	Corrective Action	2	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	—		
114	T-SMA-4	35.86194	-106.29246	Active Monitoring	2	2	2	2	2	2	2	2	2	2	2	—	2	—	2	—	2	2	—	2	2	—	2	—	2	—	2	—	—	2	—	—	—	—	—	—	—	—	—	—	
115	T-SMA-5	35.86150	-106.29163	Active Monitoring	2	2	2	—	2	2	2	2	—	—	—	—	2	2	2	—	2	2	—	—	2	—	—	—	2	—	—	2	—	—	2	—	—	—	—	—	—	—	—	—	
116	T-SMA-6.8	35.86171	-106.28229	Active Monitoring/ Corrective Action	2	2	2	2	2	1	2	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
117	T-SMA-7	35.86118	-106.28292	Active Monitoring	2	2	2	2	1	1	2	2	—	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
118	T-SMA-7.1	35.86125	-106.28252	Active Monitoring/ Corrective Action	2	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
196	W-SMA-1	35.84228	-106.35188	Active Monitoring	2	2	—	—	—	—	2	2	—	—	1	1	1	—	1	—	1	1	—	1	1	—	1	—	1	—	1	—	1	1	—	—	—	—	—	—	—	—	—	—	—
197	W-SMA-1.5	35.84177	-106.35540	Corrective Action	2	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
214	W-SMA-10	35.83794	-106.32334	Active Monitoring	2	2	—	—	—	—	2	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
215	W-SMA-11.7	35.82445	-106.30004	Active Monitoring	2	2	2	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
216	W-SMA-12.05	35.82545	-106.29894	Active Monitoring	2	2	2	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
217	W-SMA-14.1	35.83216	-106.29676	Active Monitoring	2	2	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
218	W-SMA-15.1	35.82442	-106.29501	Active Monitoring	2	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
198	W-SMA-2.05	35.83952	-106.35299	Active Monitoring	2	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
199	W-SMA-3.5	35.83729	-106.34431	Active Monitoring	2	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	—	—	—	—	—	
200	W-SMA-4.1	35.83706	-106.34052	Active Monitoring	2	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
201	W-SMA-5	35.84162	-106.33879	Corrective Action	2	2	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
202	W-SMA-6	35.83760	-106.33968	Long-Term Stewardship	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
203	W-SMA-7	35.83852	-106.33728	Active Monitoring	2	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	—	—	—	—	—	

Table 4.1-1 (continued)

Permit Sort Order	SMA	Latitude	Longitude	Status	Dissolved Organic Carbon	Suspended Sediment Concentration	Tritium	Strontium-90	Radium-226 and Radium-228	Gross Alpha	Total PCBs	SVOCs	Dissolved Antimony	Dissolved Arsenic	Dissolved Barium	Dissolved Beryllium	Dissolved Boron	Dissolved Cadmium	Dissolved Chromium	Dissolved Cobalt	Dissolved Copper	Dissolved Lead	Dissolved Manganese	Dissolved Nickel	Dissolved Silver	Dissolved Thallium	Dissolved Uranium	Dissolved Vanadium	Dissolved Zinc	Total Aluminum	Total Iron	Total Mercury	Total Molybdenum	Total Selenium	Total Cyanide	Asbestos	HE	Pesticides	Hexavalent Chromium	Tetrachlorodibenzodioxin[2,3,7,8-]	Chloride	Nitrate		
204	W-SMA-7.8	35.83625	-106.33795	Long-Term Stewardship	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
205	W-SMA-7.9	35.83592	-106.33770	Active Monitoring	2	2	—	—	—	—	2	2	—	—	2	—	2	2	2	2	2	2	—	2	—	2	2	—	2	2	—	2	—	—	—	—	—	—	—	—	—	—	—	—
206	W-SMA-8	35.83613	-106.33730	Active Monitoring	2	2	—	—	—	—	—	2	—	—	—	—	—	2	2	2	2	2	—	2	—	—	2	—	2	2	—	2	—	—	—	—	—	—	—	—	—	—	2	—
207	W-SMA-8.7	35.84359	-106.33358	Active Monitoring	2	2	2	2	—	—	—	2	—	—	—	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
208	W-SMA-8.71	35.84355	-106.33460	Active Monitoring	2	2	2	2	—	—	2	2	—	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
209	W-SMA-9.05	35.83501	-106.33310	SMA Deletion	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
210	W-SMA-9.5	35.83861	-106.32759	Long-Term Stewardship	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
211	W-SMA-9.7	35.83906	-106.32595	Corrective Action	2	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
212	W-SMA-9.8	35.83894	-106.32482	Active Monitoring	2	2	—	—	—	—	—	—	—	—	—	—	—	2	—	—	2	2	—	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
213	W-SMA-9.9	35.83898	-106.32383	Long-Term Stewardship	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		

a — = Not applicable.
 b 2 = Two samples are planned.
 c 1 = One sample is planned.
 d Hexachlorobenzene only.

Appendix A Acronyms, Abbreviations, and Glossary

AEC	Atomic Energy Commission
ANS	American Nuclear Society
ANSI	American National Standards Institute
AOC	area of concern
AST	aboveground storage tank
ATAL	average target action level
AUA	annual unit audit
bgs	below ground surface
BHC	benzene hexachloride
BMP	best management practice
BTV	background threshold value
BV	background value
CAS	Chemical Abstracts Service
CDB	Cañada del Buey
CDV	Cañon de Valle
CEARP	Comprehensive Environmental Assessment and Response Program
CFR	Code of Federal Regulations
CHQ	Chaquehui
CI	cast iron
CLP	Contract Laboratory Program
CMI	corrective measures implementation
CMP	corrugated metal pipe
CMR	Chemistry and Metallurgy Research
COC	certificate of completion
Consent Order	Compliance Order on Consent
cpm	counts per minute
CWWTP	central wastewater treatment plant
D&D	decontamination and decommissioning
DDD	dichlorodiphenyldichloroethane
DDE	dichlorodiphenyldichloroethylene
DDT	dichlorodiphenyltrichloroethane
DOC	dissolved organic carbon
DoD	Department of Defense (U.S.)
DOE	Department of Energy (U.S.)
DOECAP-AP	Consolidated Audit Program – Accreditation Program

Appendix A Acronyms and Glossary (continued)

DP	Delta Prime
ds	downstream
DU	Depleted uranium
EC	expedited cleanup
EPA	Environmental Protection Agency (U.S.)
G.C.	Garratt Callahan
gpd	gallons per day
GSA	General Services Administration
HE	high explosives
HEPA	high-efficiency particulate air
HH-OO	NMWQCC human-health organism only, surface water quality standard
HMX	Her Majesty’s Explosive (octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine)
HRL	Health Research Laboratory
HSE	Health, Safety and Environment
HWFP	Hazardous Waste Facility Permit
HYPO	high power
IA	interim action
ID	identification
IM	interim measure(s)
IP	Individual Permit (National Pollutant Discharge Elimination System Permit No. NM0030759)
IR	investigation report
IWP	investigation work plan
Laboratory	Los Alamos National Laboratory
LA	Los Alamos
LAMC	Los Alamos Medical Center
LASCP	Los Alamos Site Characterization Program
LANL	Los Alamos National Laboratory
LASL	Los Alamos Scientific Laboratory
LLW	low-level waste
LLWTF	low-level waste treatment facility
LOPO	low power
MARLAP	Multi-Agency Radiological Laboratory Analytical Protocols Manual
MDA	material disposal area
MDL	method detection limit
MLLW	mixed LLW
MQL	minimum quantification level

Appendix A Acronyms and Glossary (continued)

MTAL	maximum target action level
ND	nondetect
NES	nuclear environmental site
N3B	Newport News Nuclear BWXT-Los Alamos, LLC
NESHAP	National Emission Standards for Hazardous Air Pollutants (program)
NM	New Mexico
NMAC	New Mexico Administrative Code
NMED	New Mexico Environment Department
NMWQCC	New Mexico Water Quality Control Commission
NPDES	National Pollutant Discharge Elimination System
NTISV	non-traditional in-situ vitrification
OD	open detonation
OU	operable unit
OWR	Omega West Reactor
PAH	polycyclic aromatic hydrocarbon
PBX	plastic-bonded explosive (potassium butyl xanthate—also polymer-bonded explosive)
PCB	polychlorinated biphenyl
Permittees	DOE and N3B
PHERMEX	Pulsed High-Energy Radiographic Machine Emitting X-rays
PJ	Pajarito
POC	pollutant of concern
PT	Potrillo
PVC	polyvinyl chloride
QA	quality assurance
QC	quality control
QSM	quality systems manual
RCRA	Resource Conservation and Recovery Act
RDX	Royal Demolition Explosive (hexahydro-1,3,5-trinitro-1,3,5-triazine)
RFI	RCRA facility investigation
RLW	radioactive liquid waste
RLWTF	radioactive liquid waste treatment facility
RLWTP	radioactive liquid waste treatment plant
SAA	satellite accumulation area
SAFR	small arms firing range
SAL	screening action level
SAP	sampling and analysis plan
SIP	sampling implementation plan

Appendix A Acronyms and Glossary (continued)

SIR	supplemental investigation report
SMA	site monitoring area
SSC	suspended sediment concentration
SSD	site-specific demonstration
SSL	soil screening level
STRM	Starmer
SUPO	super power
SVOC	semivolatile organic compound
SWMU	solid waste management unit
SWQB	Surface Water Quality Bureau (NMED)
SWSC	Sanitary Wastewater Systems Consolidation (plant)
TA	technical area
TAL	target action level
TATB	triaminotrinitrobenzene
TCE	trichloroethane
TD	Trap Door (Site)
TLWTF	transuranic liquid waste treatment facility
TNT	trinitrotoluene(2,4,6-)
Triad	Triad National Security, LLC
TRU	transuranic
TSCA	Toxic Substances Control Act
TSTA	Tritium Systems Test Assembly
ULR	unassigned land release
USFS	U.S. Forest Service
UST	underground storage tank
UTL	upper tolerance limit
VCA	voluntary corrective action
VCM	voluntary corrective measure
VCP	vitriified clay pipe
VOC	volatile organic compound
WAD	weak acid dissociable
WBR	water boiler reactor
WQC	water-quality criteria
WQS	water-quality standard(s)
WWTP	wastewater treatment plant

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Appendix C SSC-Normalized Results

Location ID	Field Sample ID	Sample Date	Parameter Name	Filtered/Unfiltered (F/UF)	Detect	SSC Normalized Result	Unit
CHQ-SMA-1.02	WT_IPC-21-228786	5/31/2021	Aluminum	UF	Yes	16,333.33333	mg/kg
CHQ-SMA-1.02	WT_IPC-21-228787	8/3/2021	Aluminum	UF	Yes	25,571.42857	mg/kg
CHQ-SMA-1.02	WT_IPC-21-228786	5/31/2021	Gross alpha	UF	Yes	27.55555556	pCi/g
CHQ-SMA-1.02	WT_IPC-21-228787	8/3/2021	Radium-226 and radium-228	UF	Yes	2.7	pCi/g
CHQ-SMA-1.02	WT_IPC-21-228787	8/3/2021	Gross alpha	UF	Yes	71.71428571	pCi/g
CHQ-SMA-1.02	WT_IPC-21-228786	5/31/2021	Radium-226 and radium-228	UF	Yes	3.5	pCi/g
CHQ-SMA-1.03	WT_IPC-18-154614	8/10/2018	Aluminum	UF	Yes	8100	mg/kg
CHQ-SMA-1.03	WT_IPC-18-154614	8/10/2018	Gross alpha	UF	Yes	32.4	pCi/g
CHQ-SMA-1.03	WT_IPC-18-154614	8/10/2018	Radium-226 and radium-228	UF	Yes	5.7	pCi/g
CHQ-SMA-6	WT_IPC-22-253334	7/12/2022	Gross alpha	UF	Yes	16.88	pCi/g
A-SMA-6	WT_IPC-23-284005	5/22/2023	Gross alpha	UF	Yes	17.42857143	pCi/g
A-SMA-6	WT_IPC-23-284010	8/8/2023	Aluminum	F10u	Yes	443.8848921	mg/kg
A-SMA-6	WT_IPC-23-284009	5/22/2023	Aluminum	F10u	Yes	10,442.85714	mg/kg
CHQ-SMA-2	WT_IPC-22-241252	7/30/2022	Radium-226 and radium-228	UF	Yes	1.073684211	pCi/g
CHQ-SMA-2	WT_IPC-22-241252	7/30/2022	Gross alpha	UF	Yes	3.342105263	pCi/g
CHQ-SMA-1.01	WT_IPC-22-241331	7/12/2022	Aluminum	UF	Yes	7619.565217	mg/kg
CHQ-SMA-1.01	WT_IPC-22-241331	7/12/2022	Gross alpha	UF	Yes	18.36956522	pCi/g
CHQ-SMA-1.01	WT_IPC-22-241331	7/12/2022	Radium-226 and radium-228	UF	Yes	0.263043478	pCi/g
A-SMA-3.5	WT_IPC-22-241741	7/12/2022	Gross alpha	UF	Yes	66.34146341	pCi/g
A-SMA-3.5	WT_IPC-22-241741	7/12/2022	Aluminum	UF	Yes	6512.195122	mg/kg
A-SMA-3.5	WT_IPC-22-241741	7/12/2022	Radium-226 and radium-228	UF	Yes	1.507317073	pCi/g
A-SMA-2.8	WT_IPC-22-241316	7/27/2022	Aluminum	UF	Yes	9058.823529	mg/kg
A-SMA-2.8	WT_IPC-22-241316	7/27/2022	Radium-226 and radium-228	UF	Yes	1.352941176	pCi/g
A-SMA-2.8	WT_IPC-22-241316	7/27/2022	Gross alpha	UF	Yes	39.35294118	pCi/g
CHQ-SMA-0.5	WT_IPC-21-221391	8/3/2021	Aluminum	UF	Yes	13,714.28571	mg/kg
CHQ-SMA-0.5	WT_IPC-21-221391	8/3/2021	Radium-226 and radium-228	UF	Yes	2.785714286	pCi/g
CHQ-SMA-0.5	WT_IPC-21-221391	8/3/2021	Gross alpha	UF	Yes	445.7142857	pCi/g
A-SMA-4	WT_IPC-18-153752	7/23/2018	Gross alpha	UF	Yes	4.265734266	pCi/g
A-SMA-4	WT_IPC-18-153752	7/23/2018	Radium-226 and radium-228	UF	Yes	0.353146853	pCi/g
A-SMA-4	WT_IPC-18-153752	7/23/2018	Aluminum	UF	Yes	2510.48951	mg/kg
DP-SMA-1	WT_IPC-22-241322	6/27/2022	Aluminum	UF	Yes	13,275	mg/kg
DP-SMA-1	WT_IPC-22-241322	6/27/2022	Radium-226 and radium-228	UF	Yes	5.025	pCi/g
DP-SMA-1	WT_IPC-22-241322	6/27/2022	Gross alpha	UF	Yes	22.9	pCi/g

SSC-Normalized Results (continued)

Location ID	Field Sample ID	Sample Date	Parameter Name	Filtered/Unfiltered (F/UF)	Detect	SSC Normalized Result	Unit
ACID-SMA-1.05	WT_IPC-22-241489	7/27/2022	Radium-226 and radium-228	UF	Yes	1.74	pCi/g
ACID-SMA-1.05	WT_IPC-22-241489	7/27/2022	Gross alpha	UF	Yes	16	pCi/g
ACID-SMA-1.05	WT_IPC-23-283848	8/25/2023	Gross alpha	UF	Yes	128.6363636	pCi/g
ACID-SMA-1.05	WT_IPC-23-283856	8/25/2023	Aluminum	F10u	Yes	1445.454545	mg/kg
P-SMA-0.3	WT_IPC-23-283502	7/27/2023	Gross alpha	UF	Yes	106.2857143	pCi/g
LA-SMA-10.12	WT_IPC-15-101964	7/20/2015	Gross alpha	UF	Yes	21.8	pCi/g
DP-SMA-3	WT_IPC-19-174934	7/25/2019	Aluminum	UF	Yes	21875	mg/kg
DP-SMA-3	WT_IPC-19-174954	8/9/2019	Aluminum	UF	Yes	16,133.33333	mg/kg
DP-SMA-3	WT_IPC-19-174235	8/9/2019	Radium-226 and radium-228	UF	Yes	1.231111111	pCi/g
DP-SMA-3	WT_IPC-19-174235	8/9/2019	Gross alpha	UF	Yes	36.44444444	pCi/g
DP-SMA-3	WT_IPC-19-174183	7/25/2019	Radium-226 and radium-228	UF	Yes	3.01875	pCi/g
DP-SMA-3	WT_IPC-19-174183	7/25/2019	Gross alpha	UF	Yes	41.5625	pCi/g
R-SMA-2.5	WT_IPC-19-175022	8/8/2019	Aluminum	UF	Yes	21,944.44444	mg/kg
R-SMA-2.5	WT_IPC-19-173580	8/8/2019	Radium-226 and radium-228	UF	Yes	2.088888889	pCi/g
R-SMA-2.5	WT_IPC-19-173580	8/8/2019	Gross alpha	UF	Yes	41.5	pCi/g
LA-SMA-6.3	WT_IPC-19-174997	7/26/2019	Aluminum	UF	Yes	672.6973684	mg/kg
LA-SMA-6.3	WT_IPC-19-173819	7/26/2019	Radium-226 and radium-228	UF	Yes	0.34375	pCi/g
LA-SMA-6.3	WT_IPC-19-173819	7/26/2019	Gross alpha	UF	Yes	14.09539474	pCi/g
DP-SMA-0.6	WT_IPC-19-173376	7/26/2019	Radium-226 and radium-228	UF	Yes	1.139130435	pCi/g
DP-SMA-0.6	WT_IPC-19-173376	7/26/2019	Gross alpha	UF	Yes	43.26086957	pCi/g
DP-SMA-0.6	WT_IPC-19-175020	7/26/2019	Aluminum	UF	Yes	14,086.95652	mg/kg
LA-SMA-3.1	WT_IPC-18-164272	10/24/2018	Radium-226 and radium-228	UF	No	9.02	pCi/g
LA-SMA-3.1	WT_IPC-18-164272	10/24/2018	Gross alpha	UF	No	18.3	pCi/g
LA-SMA-3.1	WT_IPC-18-164272	10/24/2018	Aluminum	UF	Yes	5550	mg/kg
LA-SMA-5.2	WT_IPC-19-174995	7/26/2019	Aluminum	UF	Yes	770.0205339	mg/kg
LA-SMA-5.2	WT_IPC-19-173365	7/26/2019	Radium-226 and radium-228	UF	Yes	0.345995893	pCi/g
LA-SMA-5.2	WT_IPC-19-173365	7/26/2019	Gross alpha	UF	Yes	23.81930185	pCi/g
LA-SMA-5.361	WT_IPC-19-174996	8/7/2019	Aluminum	UF	Yes	3803.030303	mg/kg
LA-SMA-5.361	WT_IPC-19-173383	8/7/2019	Radium-226 and radium-228	UF	Yes	1.96969697	pCi/g
LA-SMA-5.361	WT_IPC-19-173383	8/7/2019	Gross alpha	UF	Yes	49.24242424	pCi/g
LA-SMA-1.1	WT_IPC-23-284986	5/22/2023	Gross alpha	UF	Yes	8.636363636	pCi/g
LA-SMA-1.1	WT_IPC-23-284985	5/19/2023	Gross alpha	UF	Yes	11.22	pCi/g
LA-SMA-4.1	WT_IPC-23-285084	5/22/2023	Gross alpha	UF	Yes	24.28571429	pCi/g
LA-SMA-4.1	WT_IPC-23-285083	5/15/2023	Gross alpha	UF	Yes	14.5625	pCi/g
ACID-SMA-2.1	WT_IPC-17-135533	8/23/2017	Aluminum	UF	Yes	3172.413793	mg/kg

SSC-Normalized Results (continued)

Location ID	Field Sample ID	Sample Date	Parameter Name	Filtered/Unfiltered (F/UF)	Detect	SSC Normalized Result	Unit
ACID-SMA-2.1	WT_IPC-17-135526	8/7/2017	Aluminum	UF	Yes	14,714.28571	mg/kg
ACID-SMA-2.1	WT_IPC-17-135533	8/23/2017	Gross alpha	UF	Yes	13.82758621	pCi/g
ACID-SMA-2.1	WT_IPC-17-135526	8/7/2017	Gross alpha	UF	Yes	94.42857143	pCi/g
ACID-SMA-2.1	WT_IPC-17-135533	8/23/2017	Radium-226 and radium-228	UF	Yes	0.222413793	pCi/g
ACID-SMA-2.1	WT_IPC-17-135526	8/7/2017	Radium-226 and radium-228	UF	No	2.227142857	pCi/g
ACID-SMA-2	WT_IPC-17-135527	7/26/2017	Gross alpha	UF	Yes	5.771084337	pCi/g
ACID-SMA-2	WT_IPC-17-135520	7/8/2017	Gross alpha	UF	Yes	124.2105263	pCi/g
ACID-SMA-2	WT_IPC-17-135527	7/26/2017	Radium-226 and radium-228	UF	Yes	0.513253012	pCi/g
ACID-SMA-2	WT_IPC-17-135520	7/8/2017	Radium-226 and radium-228	UF	Yes	1.315789474	pCi/g
ACID-SMA-2	WT_IPC-17-135527	7/26/2017	Aluminum	UF	Yes	1054.216867	mg/kg
ACID-SMA-2	WT_IPC-17-135520	7/8/2017	Aluminum	UF	Yes	5263.157895	mg/kg
M-SMA-12	WT_IPC-15-102019	7/7/2015	Radium-226 and radium-228	UF	Yes	5.95	pCi/g
M-SMA-12	WT_IPC-15-102019	7/7/2015	Gross alpha	UF	Yes	9.7	pCi/g
M-SMA-12.9	WT_IPC-15-101985	7/20/2015	Radium-226 and radium-228	UF	Yes	0.271484375	pCi/g
M-SMA-12.9	WT_IPC-15-101985	7/20/2015	Gross alpha	UF	Yes	5.390625	pCi/g
CDB-SMA-0.15	WT_IPC-15-102084	7/20/2015	Radium-226 and radium-228	UF	No	2.6	pCi/g
CDB-SMA-0.15	WT_IPC-15-102084	7/20/2015	Gross alpha	UF	Yes	13.3	pCi/g
S-SMA-3.7	WT_IPC-22-241477	7/30/2022	Aluminum	UF	Yes	2142.5	mg/kg
S-SMA-3.7	WT_IPC-22-241477	7/30/2022	Radium-226 and radium-228	UF	Yes	5.425	pCi/g
S-SMA-3.7	WT_IPC-22-241477	7/30/2022	Gross alpha	UF	Yes	7.875	pCi/g
S-SMA-6	WT_IPC-21-221611	8/26/2021	Gross alpha	UF	Yes	27.36842105	pCi/g
S-SMA-6	WT_IPC-22-242150	7/26/2022	Gross alpha	UF	Yes	14.52380952	pCi/g
T-SMA-1	WT_IPC-21-221542	8/26/2021	Aluminum	UF	Yes	4695.238095	mg/kg
T-SMA-1	WT_IPC-21-221542	8/26/2021	Radium-226 and radium-228	UF	Yes	3.133333333	pCi/g
T-SMA-1	WT_IPC-21-221542	8/26/2021	Gross alpha	UF	Yes	44.52380952	pCi/g
M-SMA-1	WT_IPC-23-284511	5/18/2023	Gross alpha	UF	Yes	8.25	pCi/g
M-SMA-1	WT_IPC-23-284510	5/15/2023	Gross alpha	UF	Yes	6.65	pCi/g
M-SMA-12.7	WT_IPC-22-241388	8/16/2022	Aluminum	UF	Yes	3390.243902	mg/kg
M-SMA-12.7	WT_IPC-22-241388	8/16/2022	Radium-226 and radium-228	UF	Yes	0.841463415	pCi/g
M-SMA-12.7	WT_IPC-22-241388	8/16/2022	Gross alpha	UF	Yes	32.19512195	pCi/g
CDB-SMA-1	WT_IPC-21-221102	8/3/2021	Gross alpha	UF	Yes	28.49056604	pCi/g
S-SMA-5.2	WT_IPC-19-175050	7/26/2019	Aluminum	UF	Yes	3680.851064	mg/kg
S-SMA-5.2	WT_IPC-19-173901	7/26/2019	Radium-226 and radium-228	UF	Yes	0.581914894	pCi/g
S-SMA-5.2	WT_IPC-19-173901	7/26/2019	Gross alpha	UF	Yes	36.91489362	pCi/g
M-SMA-12.8	WT_IPC-19-175002	7/25/2019	Aluminum	UF	Yes	3901.098901	mg/kg

SSC-Normalized Results (continued)

Location ID	Field Sample ID	Sample Date	Parameter Name	Filtered/Unfiltered (F/UF)	Detect	SSC Normalized Result	Unit
M-SMA-12.8	WT_IPC-19-173846	7/25/2019	Radium-226 and radium-228	UF	Yes	2.241758242	pCi/g
M-SMA-12.8	WT_IPC-19-173846	7/25/2019	Gross alpha	UF	Yes	37.14285714	pCi/g
M-SMA-12.5	WT_IPC-19-173844	7/25/2019	Radium-226 and radium-228	UF	Yes	0.826190476	pCi/g
M-SMA-12.5	WT_IPC-19-173844	7/25/2019	Gross alpha	UF	Yes	51.66666667	pCi/g
M-SMA-12.5	WT_IPC-19-175000	7/25/2019	Aluminum	UF	Yes	15,357.14286	mg/kg
T-SMA-2.5	WT_IPC-19-175060	7/26/2019	Aluminum	UF	Yes	3927.272727	mg/kg
T-SMA-2.5	WT_IPC-19-173393	7/26/2019	Radium-226 and radium-228	UF	Yes	0.930909091	pCi/g
T-SMA-2.5	WT_IPC-19-173393	7/26/2019	Gross alpha	UF	Yes	67.09090909	pCi/g
T-SMA-7.1	WT_IPC-19-175062	7/25/2019	Aluminum	UF	Yes	10,062.5	mg/kg
T-SMA-7.1	WT_IPC-19-173558	7/25/2019	Radium-226 and radium-228	UF	Yes	2.4375	pCi/g
T-SMA-7.1	WT_IPC-19-173558	7/25/2019	Gross alpha	UF	Yes	53.125	pCi/g
M-SMA-4	WT_SIP-17-135629	9/28/2017	Aluminum	UF	Yes	12,866.66667	mg/kg
M-SMA-4	WT_SIP-17-135629	9/28/2017	Gross alpha	UF	Yes	25.96666667	pCi/g
M-SMA-4	WT_SIP-17-135629	9/28/2017	Radium-226 and Radium-228	UF	Yes	5.7	pCi/g
M-SMA-7.9	WT_IPC-23-283860	8/25/2023	Gross alpha	UF	Yes	37.69230769	pCi/g
M-SMA-1.21	WT_IPC-18-153559	10/24/2018	Gross alpha	UF	Yes	9	pCi/g
M-SMA-1.21	WT_IPC-18-153559	10/24/2018	Radium-226 and radium-228	UF	No	3.895	pCi/g
M-SMA-1.21	WT_IPC-18-153559	10/24/2018	Aluminum	UF	Yes	920	mg/kg
T-SMA-7	WT_IPC-17-133273	9/12/2017	Gross alpha	UF	Yes	10.64705882	pCi/g
T-SMA-7	WT_IPC-17-133273	9/12/2017	Radium-226 and radium-228	UF	Yes	1.029411765	pCi/g
T-SMA-7	WT_IPC-17-133273	9/12/2017	Aluminum	UF	Yes	2594.117647	mg/kg
T-SMA-6.8	WT_SIP-17-135643	7/26/2017	Aluminum	UF	Yes	1103.773585	mg/kg
T-SMA-6.8	WT_SIP-17-135665	9/27/2017	Aluminum	UF	Yes	812	mg/kg
T-SMA-6.8	WT_SIP-17-135665	9/27/2017	Gross alpha	UF	Yes	4.55	pCi/g
T-SMA-6.8	WT_SIP-17-135665	9/27/2017	Radium-226 and radium-228	UF	Yes	1.43	pCi/g
T-SMA-6.8	WT_SIP-17-135643	7/26/2017	Gross alpha	UF	Yes	14.05660377	pCi/g
T-SMA-6.8	WT_SIP-17-135643	7/26/2017	Radium-226 and radium-228	UF	Yes	0.550943396	pCi/g
T-SMA-3	WT_SIP-17-135640	10/5/2017	Aluminum	UF	Yes	25,650	mg/kg
T-SMA-3	WT_SIP-17-135640	10/5/2017	Gross alpha	UF	No	9.35	pCi/g
T-SMA-3	WT_SIP-17-135640	10/5/2017	Radium-226 and radium-228	UF	No	5.545	pCi/g
STRM-SMA-5.05	WT_IPC-15-101953	8/2/2015	Aluminum	UF	Yes	31,500	mg/kg
STRM-SMA-5.05	WT_IPC-15-101952	8/2/2015	Gross alpha	UF	Yes	19.15	pCi/g
2M-SMA-1.45	WT_IPC-15-101940	7/7/2015	Radium-226 and radium-228	UF	Yes	16	pCi/g
2M-SMA-1.45	WT_IPC-15-101940	7/7/2015	Gross alpha	UF	Yes	28.8	pCi/g
PJ-SMA-3.05	WT_IPC-22-253341	8/6/2022	Gross alpha	UF	Yes	28.6	pCi/g

SSC-Normalized Results (continued)

Location ID	Field Sample ID	Sample Date	Parameter Name	Filtered/Unfiltered (F/UF)	Detect	SSC Normalized Result	Unit
PJ-SMA-3.05	WT_IPC-22-253340	7/20/2022	Gross alpha	UF	Yes	18.66666667	pCi/g
3M-SMA-0.5	WT_IPC-22-241596	7/27/2022	Gross alpha	UF	Yes	32.68817204	pCi/g
PJ-SMA-11	WT_IPC-21-221598	8/26/2021	Gross alpha	UF	Yes	7.072072072	pCi/g
PJ-SMA-11	WT_IPC-21-221597	6/27/2021	Gross alpha	UF	Yes	8.545454545	pCi/g
PJ-SMA-11	WT_IPC-19-174937	7/2/2019	Aluminum	UF	Yes	5164.705882	mg/kg
PJ-SMA-11	WT_IPC-18-154593	8/10/2018	Gross alpha	UF	Yes	17.6344086	pCi/g
PJ-SMA-11	WT_IPC-18-154593	8/10/2018	Radium-226 and radium-228	UF	Yes	0.668817204	pCi/g
PJ-SMA-11	WT_IPC-19-174184	7/2/2019	Radium-226 and radium-228	UF	Yes	0.864705882	pCi/g
PJ-SMA-11	WT_IPC-19-174184	7/2/2019	Gross alpha	UF	Yes	41.47058824	pCi/g
PJ-SMA-11	WT_IPC-18-154593	8/10/2018	Aluminum	UF	Yes	2612.903226	mg/kg
PJ-SMA-4.05	WT_SIP-17-135632	7/29/2017	Aluminum	UF	Yes	15,900	mg/kg
PJ-SMA-4.05	WT_SIP-17-135653	7/29/2017	Aluminum	UF	Yes	52,000	mg/kg
PJ-SMA-4.05	WT_SIP-17-135654	9/26/2017	Aluminum	UF	Yes	8700	mg/kg
PJ-SMA-4.05	WT_SIP-17-135632	7/29/2017	Gross alpha	UF	No	25.2	pCi/g
PJ-SMA-4.05	WT_SIP-17-135632	7/29/2017	Radium-226 and radium-228	UF	No	3.19	pCi/g
PJ-SMA-4.05	WT_SIP-17-135654	9/26/2017	Gross alpha	UF	Yes	18.16666667	pCi/g
PJ-SMA-4.05	WT_SIP-17-135654	9/26/2017	Radium-226 and radium-228	UF	Yes	5.433333333	pCi/g
STRM-SMA-1.05	WT_SIP-17-135660	8/23/2017	Aluminum	UF	Yes	14,600	mg/kg
STRM-SMA-1.05	WT_SIP-17-135638	7/26/2017	Aluminum	UF	Yes	4580	mg/kg
STRM-SMA-1.05	WT_SIP-17-135660	8/23/2017	Gross alpha	UF	Yes	46.6	pCi/g
STRM-SMA-1.05	WT_SIP-17-135660	8/23/2017	Radium-226 and radium-228	UF	No	6.9	pCi/g
STRM-SMA-1.05	WT_SIP-17-135638	7/26/2017	Gross alpha	UF	Yes	14.25	pCi/g
STRM-SMA-1.05	WT_SIP-17-135638	7/26/2017	Radium-226 and radium-228	UF	No	5.94	pCi/g
2M-SMA-1.43	WT_SIP-17-135624	7/12/2017	Aluminum	UF	Yes	47,333.33333	mg/kg
2M-SMA-1.43	WT_SIP-17-135625	6/25/2017	Aluminum	UF	Yes	15,105.26316	mg/kg
2M-SMA-1.43	WT_SIP-17-135647	7/12/2017	Aluminum	UF	Yes	16,333.33333	mg/kg
2M-SMA-1.43	WT_SIP-17-143796	7/27/2017	Aluminum	UF	Yes	16,066.66667	mg/kg
2M-SMA-1.43	WT_SIP-17-135624	7/12/2017	Radium-226 and radium-228	UF	Yes	10.86666667	pCi/g
2M-SMA-1.43	WT_SIP-17-135625	6/25/2017	Gross alpha	UF	Yes	28.15789474	pCi/g
2M-SMA-1.43	WT_SIP-17-135625	6/25/2017	Radium-226 and radium-228	UF	Yes	1.205263158	pCi/g
2M-SMA-1.43	WT_SIP-17-135624	7/12/2017	Gross alpha	UF	Yes	55	pCi/g
2M-SMA-1.43	WT_SIP-17-135647	7/12/2017	Gross alpha	UF	Yes	17.7	pCi/g
2M-SMA-1.43	WT_SIP-17-135647	7/12/2017	Radium-226 and radium-228	UF	Yes	4.633333333	pCi/g
2M-SMA-1.43	WT_SIP-17-143796	7/27/2017	Gross alpha	UF	Yes	30.13333333	pCi/g
2M-SMA-1.43	WT_SIP-17-143796	7/27/2017	Radium-226 and radium-228	UF	Yes	1.54	pCi/g

SSC-Normalized Results (continued)

Location ID	Field Sample ID	Sample Date	Parameter Name	Filtered/Unfiltered (F/UF)	Detect	SSC Normalized Result	Unit
PJ-SMA-9	WT_IPC-21-230497	7/27/2021	Aluminum	UF	Yes	924.2857143	mg/kg
PJ-SMA-9	WT_IPC-21-230497	7/27/2021	Gross alpha	UF	Yes	18.71428571	pCi/g
PJ-SMA-19	WT_IPC-21-221539	8/22/2021	Aluminum	UF	Yes	15,692.30769	mg/kg
PJ-SMA-19	WT_IPC-21-221539	8/22/2021	Radium-226 and radium-228	UF	Yes	2.761538462	pCi/g
PJ-SMA-19	WT_IPC-21-221539	8/22/2021	Gross alpha	UF	Yes	34.38461538	pCi/g
PJ-SMA-19	WT_IPC-23-283655	9/9/2023	Gross alpha	UF	Yes	72.74725275	pCi/g
PJ-SMA-2	WT_IPC-22-241450	7/31/2022	Aluminum	UF	Yes	15,266.66667	mg/kg
PJ-SMA-2	WT_IPC-22-241450	7/31/2022	Radium-226 and radium-228	UF	Yes	3.733333333	pCi/g
PJ-SMA-2	WT_IPC-22-241450	7/31/2022	Gross alpha	UF	Yes	37.66666667	pCi/g
PJ-SMA-11.1	WT_IPC-21-221376	8/26/2021	Gross alpha	UF	Yes	4.230769231	pCi/g
STRM-SMA-1.5	WT_IPC-18-154710	9/3/2018	Gross alpha	UF	Yes	36.95454545	pCi/g
STRM-SMA-1.5	WT_IPC-18-154710	9/3/2018	Radium-226 and radium-228	UF	Yes	2.181818182	pCi/g
STRM-SMA-1.5	WT_IPC-18-154710	9/3/2018	Aluminum	UF	Yes	3886.363636	mg/kg
PJ-SMA-17	WT_IPC-23-283674	9/14/2023	Gross alpha	UF	Yes	4.002624672	pCi/g
PJ-SMA-18	WT_IPC-18-153405	8/10/2018	Gross alpha	UF	Yes	48	pCi/g
PJ-SMA-18	WT_IPC-18-153402	8/10/2018	Radium-226 and radium-228	UF	Yes	4.157142857	pCi/g
PJ-SMA-18	WT_IPC-18-153419	8/10/2018	Aluminum	UF	Yes	5585.714286	mg/kg
2M-SMA-3	WT_IPC-17-135513	10/4/2017	Gross alpha	UF	Yes	54	pCi/g
2M-SMA-3	WT_IPC-17-135506	7/26/2017	Gross alpha	UF	Yes	18.3	pCi/g
2M-SMA-3	WT_IPC-17-135513	10/4/2017	Radium-226 and radium-228	UF	No	4.673333333	pCi/g
2M-SMA-3	WT_IPC-17-135506	7/26/2017	Radium-226 and radium-228	UF	Yes	11.1	pCi/g
2M-SMA-3	WT_IPC-17-135513	10/4/2017	Aluminum	UF	Yes	15,133.33333	mg/kg
2M-SMA-3	WT_IPC-17-135506	7/26/2017	Aluminum	UF	Yes	7160	mg/kg
2M-SMA-3	WT_SIP-17-135626	10/4/2017	Aluminum	UF	Yes	18,933.33333	mg/kg
2M-SMA-3	WT_SIP-17-135626	10/4/2017	Gross alpha	UF	Yes	49	pCi/g
2M-SMA-3	WT_SIP-17-135626	10/4/2017	Radium-226 and radium-228	UF	No	3.12	pCi/g
3M-SMA-4	WT_IPC-17-135472	7/26/2017	Gross alpha	UF	Yes	6.266666667	pCi/g
PJ-SMA-5.1	WT_SIP-17-135633	9/28/2017	Aluminum	UF	Yes	5600	mg/kg
PJ-SMA-5.1	WT_SIP-17-135633	9/28/2017	Gross alpha	UF	No	15	pCi/g
PJ-SMA-5.1	WT_SIP-17-135633	9/28/2017	Radium-226 and radium-228	UF	No	7.385	pCi/g
CDV-SMA-2.3	WT_IPC-15-102065	7/20/2015	Radium-226 and radium-228	UF	Yes	2.016	pCi/g
CDV-SMA-2.3	WT_IPC-15-102065	7/20/2015	Gross alpha	UF	Yes	21.76	pCi/g
PT-SMA-3	WT_IPC-22-241524	7/4/2022	Aluminum	UF	Yes	25,285.71429	mg/kg
PT-SMA-3	WT_IPC-22-241524	7/4/2022	Radium-226 and radium-228	UF	Yes	2.271428571	pCi/g
PT-SMA-3	WT_IPC-22-241524	7/4/2022	Gross alpha	UF	Yes	21.57142857	pCi/g

SSC-Normalized Results (continued)

Location ID	Field Sample ID	Sample Date	Parameter Name	Filtered/Unfiltered (F/UF)	Detect	SSC Normalized Result	Unit
F-SMA-2	WT_IPC-22-241276	7/27/2022	Aluminum	UF	Yes	19,672.13115	mg/kg
F-SMA-2	WT_IPC-22-241276	7/27/2022	Radium-226 and radium-228	UF	Yes	2.426229508	pCi/g
F-SMA-2	WT_IPC-22-241276	7/27/2022	Gross alpha	UF	Yes	46.55737705	pCi/g
F-SMA-2	WT_IPC-21-221104	8/26/2021	Aluminum	UF	Yes	402.9850746	mg/kg
F-SMA-2	WT_IPC-21-221104	8/26/2021	Radium-226 and radium-228	UF	Yes	0.303358209	pCi/g
F-SMA-2	WT_IPC-21-221104	8/26/2021	Gross alpha	UF	Yes	1.388059701	pCi/g
W-SMA-1.5	WT_IPC-22-241660	7/4/2022	Gross alpha	UF	No	7.2	pCi/g
W-SMA-1.5	WT_IPC-22-241660	7/4/2022	Aluminum	UF	Yes	9100	mg/kg
W-SMA-1.5	WT_IPC-22-241660	7/4/2022	Radium-226 and radium-228	UF	Yes	3.4	pCi/g
W-SMA-1.5	WT_IPC-17-135601	9/28/2017	Gross alpha	UF	No	23.4	pCi/g
W-SMA-1.5	WT_IPC-17-135601	9/28/2017	Radium-226 and radium-228	UF	No	13.86	pCi/g
W-SMA-1.5	WT_IPC-17-135601	9/28/2017	Aluminum	UF	Yes	6610	mg/kg
W-SMA-10	WT_IPC-15-101966	8/1/2015	Gross alpha	UF	Yes	22.22857143	pCi/g
W-SMA-9.05	WT_IPC-22-241483	6/26/2022	Gross alpha	UF	Yes	40.6	pCi/g
W-SMA-9.05	WT_IPC-22-241483	6/26/2022	Aluminum	UF	Yes	3780	mg/kg
W-SMA-9.05	WT_IPC-22-241483	6/26/2022	Radium-226 and radium-228	UF	Yes	13	pCi/g
PT-SMA-2	WT_IPC-22-241707	8/11/2022	Gross alpha	UF	Yes	45.81395349	pCi/g
PT-SMA-2	WT_IPC-21-231304	8/26/2021	Gross alpha	UF	Yes	20.58823529	pCi/g
CDV-SMA-9.05	WT_IPC-21-221589	8/26/2021	Gross alpha	UF	Yes	16.1	pCi/g
CDV-SMA-7	WT_IPC-21-221585	8/26/2021	Gross alpha	UF	Yes	17.38461538	pCi/g
W-SMA-7.8	WT_IPC-19-175055	7/15/2019	Aluminum	UF	Yes	3300	mg/kg
W-SMA-7.8	WT_IPC-19-173392	7/15/2019	Radium-226 and radium-228	UF	Yes	1.833333333	pCi/g
W-SMA-7.8	WT_IPC-19-173392	7/15/2019	Gross alpha	UF	Yes	25.16666667	pCi/g
W-SMA-7.8	WT_IPC-21-221285	5/30/2021	Radium-226 and radium-228	UF	Yes	4.0625	pCi/g
W-SMA-7.8	WT_IPC-21-221285	5/30/2021	Gross alpha	UF	Yes	79.25	pCi/g
W-SMA-7.8	WT_IPC-21-221285	5/30/2021	Aluminum	UF	Yes	3962.5	mg/kg
W-SMA-6	WT_IPC-19-173591	7/7/2019	Radium-226 and radium-228	UF	Yes	1.061111111	pCi/g
W-SMA-6	WT_IPC-19-173591	7/7/2019	Gross alpha	UF	Yes	33.61111111	pCi/g
PT-SMA-4.2	WT_IPC-18-154588	8/10/2018	Radium-226 and radium-228	UF	Yes	2.021052632	pCi/g
PT-SMA-4.2	WT_IPC-18-154588	8/10/2018	Gross alpha	UF	Yes	44.47368421	pCi/g
PT-SMA-4.2	WT_IPC-21-221485	8/22/2021	Radium-226 and radium-228	UF	Yes	2.5	pCi/g
PT-SMA-4.2	WT_IPC-21-221485	8/22/2021	Gross alpha	UF	Yes	38.41666667	pCi/g
W-SMA-1	WT_IPC-18-153393	10/24/2018	Gross alpha	UF	Yes	63.4	pCi/g
W-SMA-1	WT_IPC-18-153394	10/24/2018	Radium-226 and radium-228	UF	Yes	8	pCi/g
W-SMA-1	WT_IPC-18-153396	10/24/2018	Aluminum	UF	Yes	7930	mg/kg

SSC-Normalized Results (continued)

Location ID	Field Sample ID	Sample Date	Parameter Name	Filtered/Unfiltered (F/UF)	Detect	SSC Normalized Result	Unit
PT-SMA-1	WT_IPC-17-135610	9/26/2017	Gross alpha	UF	Yes	88	pCi/g
PT-SMA-1	WT_IPC-17-135610	9/26/2017	Radium-226 and radium-228	UF	No	7.88	pCi/g
PT-SMA-1	WT_IPC-17-135610	9/26/2017	Aluminum	UF	Yes	9800	mg/kg