# Appendix A: NPDES Stormwater Individual Permit

## A.1 Compliance Checklist

The Review Team used the following checklists to assess compliance with the National Pollutant Discharge Elimination System (NPDES) NM0030759, Los Alamos National Laboratory (LANL) Individual Stormwater. This permit is held by co-permittees U.S. Department of Energy Environmental Management and Newport News Nuclear BWXT, LLC (N3B).

.

### A.1.1 PART I REQUIREMENTS FOR NPDES PERMITS

| Permit Section | Section Title | Permit Requirement | Applicable Areas | Compliance Status (Y/N) | Method of Compliance |
|---|---|---|---|---|---|
| Part I.A. | NON-NUMERIC TECHNOLOGY-BASED EFFLUENT LIMITATIONS | 1. Erosion and Sedimentation Controls. The Permittees must minimize discharges of pollutants caused by onsite erosion and sedimentation. The Permittees must implement structural and non-structural, vegetative, and/or stabilization control measures as necessary to achieve this requirement. | All (Refer to Table A-1) | Y | Visual inspection of facility |
| | | 2. Management of Run-on and Runoff. The Permittees must divert, infiltrate, reuse, contain or otherwise reduce storm water run-on/runoff in order, to minimize pollutants in discharges. | All | Y | Visual inspection of facility |
| | | 3. Employee Training. The Permittees must provide training, at least once per year, to all employees who work in areas where industrial materials or activities are exposed to storm water, or who are responsible for implementing activities identified in the SDPPP. Training must cover both the specific components and scope of the SDPPP and the control measures required under this Part. | All | Y | Review of training roster and materials |
| | | 4. Unauthorized Discharges. The Permittees must eliminate non-stormwater discharges not authorized by an NPDES permit. | All | Y | Visual inspection of facility |
| | | 5. Other Controls. The Permittees must do the following where applicable: (a) Implement controls to ensure that no waste, garbage, or floatable debris are discharged to receiving waters. | All | Y | Visual inspection of facility |
| | | 5. Other Controls. The Permittees must do the following where applicable: (b) Minimize the generation of dust, along with off-site vehicle tracking of raw, final or waste materials, or sediments. | All | Y | Visual inspection of facility |
| | | 5. Other Controls. The Permittees must do the following where applicable: (c) Minimize the introduction of raw, final, or waste materials to exposed areas. | All | Y | Visual inspection of facility |
| | | 5. Other Controls. The Permittees must do the following where applicable: (d) Place flow velocity dissipation devices at discharge locations and along the length of any discharge channel if the flows would otherwise create erosive conditions. | All | Y | Visual inspection of discharge locations |

| Permit Section | Section Title | Permit Requirement | Applicable Areas | Compliance Status (Y/N) | Method of Compliance |
|---|---|---|---|---|---|
| Part I.B. | CONTROL MEASURES | 1. Installation of Baseline Control Measures. Permittees must select, design, install and implement baseline control measures (including best management practices) to minimize storm water pollutant discharges as necessary to meet the non-numeric effluent limits established in Part I.A. and Appendix E of the Permit. Permittees shall certify completion of baseline control measures to address the non-numeric effluent limits to EPA within 30 days of completion of such measures, or if such measures have already been installed, then within 30 days after the effective date of the Permit. Such certification shall be signed in accordance with 40 CFR 122.22(b) and shall include a description and photographs of all completed baseline control measures. Such certification shall be forwarded to the Chief of the NPDES Compliance Section (R6-ENWC), with copies to the Chief of the NPDES Permits and Technical Assistance Section (6WQ-PP) and NMED's Surface Water Quality Bureau (SWQB). | All | Y | Visual inspection of facility and review of certifications |
| | | 2. Maintenance of Control Measures. The Permittees must maintain all control measures in effective operating condition. The Permittees must keep documentation onsite that describes procedures and a regular schedule for preventative maintenance of all control measures and discussions of back-up practices in place should a runoff event occur while a control measure is off-line. | All | Y | Visual inspection of facility and review of written maintenance and back-up procedures |
| Part I.C. | APPLICABLE TARGET ACTION LEVELS | Monitoring results based on validated analytical data showing pollutant concentrations above applicable target action levels at any **Site (solid waste management units or areas of concern at the facility)** indicate that corrective action is required. (Refer to permit for list.) | All | Y | Review of analytical results |
| Part I.D. | CONFIRMATION MONITORING REQUIREMENTS | 1. Initial Sampling. (a) For Sites at which baseline control measures to address the non-numeric effluent limits in Part I.A. of the Permit have already been installed and implemented prior to the effective date of this permit, the Permittees shall collect two or more confirmation samples. One (1) confirmation sample shall be collected during each of at least two (2) separate measurable storm events occurring at least fifteen (15) days apart and within one (1) year after the effective date of this Permit at associated SMAs. | SMAs with baseline control measures | Y | Per Annual Reports, this monitoring is completed or has been extended |
| | | 1. Initial Sampling. (b) For Sites at which baseline control measures to address the non-numeric effluent limits in Part I.A. of the Permit are installed within six (6) months of the effective date of the permit, the Permittees shall collect two or more confirmation samples. One (1) confirmation sample shall be collected during each of at least two (2) separate measurable storm events occurring at least fifteen (15) days apart) and within eighteen (18) months after the effective date of this Permit at associated SMAs. | SMAs with baseline control measures | Y | Per Annual Reports, this monitoring is completed or has been extended |

| Permit Section | Section Title | Permit Requirement | Applicable Areas | Compliance Status (Y/N) | Method of Compliance |
|---|---|---|---|---|---|
| | | 2. Sampling Locations. All samples taken for purposes of confirmation monitoring shall be taken in compliance with the monitoring requirements specified below at SMAs specified in Appendix A to the Permit. Instead of monitoring at each individual Site, the Permittees may, when appropriate based on drainage patterns for the affected Sites, monitor two or more Sites in conjunction at an associated SMA, so long as the SMA and all associated Sites are identified in Appendix A to the Permit. The Permit may be modified, in accordance with the provisions of 40 C.F.R. § 122.62, to relocate a SMA based on a determination that the SMA is no longer representative of the drainage area for a Site or Sites, provided sufficient technical justification for the relocation is included with Permittee's request for permit modification. The Permittees shall provide that any permit modification request to EPA will be emailed to email list pursuant to Section I.7.b. The Permittees must include the following information in their SDPPP regarding each SMA: (a) Location of each Site within the SMA drainage area; (b) Coordinates for sampling location; (c) If more than one Site is monitored by a SMA, information to demonstrate those Sites are expected to discharge substantially identical effluents; and (d) Estimates of the size of the drainage area (in square feet) for each of the Sites and the total drainage area of the associated SMA. | Sampling locations | Y | Review of monitoring results, SDPPP, and, if applicable, EPA correspondence |
| | | 3. Sampling Procedures. Any sampling performed for purposes of confirmation monitoring at a particular SMA must be performed following a storm event after installation of applicable control measures that results in an actual discharge from that Site or Sites and that produces sufficient volume to perform the required analyses (referred to herein as a "measurable storm event"), provided the interval since the preceding sampled storm event is at least fifteen (15) days. For each sampling event, the Permittees must identify the date and duration (in hours) of the storm event(s) sampled, rainfall measurements or estimates (in inches) of the storm event that generated the sampled runoff, and the duration between the storm event samples and the end of the previous measurable storm event. The Permittees may take meteorological information from the nearest meteorological tower or automated rain gage. Snow melt samples shall not be used for purposes of confirmation monitoring. Grab samples shall be taken when discharge occurs. Samples must be collected beginning within the first thirty (30) minutes of (or as soon after as practical but beginning no later than one (1) hour after) a measurable storm event. Samples shall not be used if the collected volume of sample is insufficient to perform all required analyses. Samples from the same SMA shall be at least fifteen (15) days apart. | Sampling locations | Y | Review of monitoring results |

| Permit Section | Section Title | Permit Requirement | Applicable Areas | Compliance Status (Y/N) | Method of Compliance |
|---|---|---|---|---|---|
| | | 4. Confirmation Results below Target Action Levels. (a) If all analytical results for a particular pollutant of concern at a particular SMA are at or below the maximum target action level (MTAL) and the average of all applicable sampling results is at or below the average target action level (ATAL), or the applicable minimum quantification level (MQL), whichever is greater, monitoring of that pollutant at the same SMA is no longer required for the remaining period of the permit. An exception is made for instances in which future installation of control measures at the Site or Sites being monitored involves soil disturbance. As described in Section E.5.a below, if soil disturbance is involved, the Permittees must again sample for all listed pollutants of concern at that SMA. A minimum of two confirmation samples must be collected and analyzed before removing a particular pollutant of concern from monitoring requirements under this Section, except as provided in Sections E.5.(d) and (e) below. The two samples required for initial sampling under Section D.1 are sufficient to meet this requirement provided analytical results for the pollutant of concern at issue are at or below applicable target action levels. | Sampling locations | Y | Certifications of corrective actions complete for results below TALs on IP website |
| | | 4. Confirmation Results below Target Action Levels. (b) If analytical results for all pollutants of concern at a particular SMA are at or below the MTALs and the average of all applicable sampling results is at or below the ATALs, or the applicable MQLs, whichever is greater, no further sampling is required for the Site or group of Sites within the associated SMA for the remaining period of the permit (except as provided in Section E. 5.). A minimum of two confirmation samples must be collected and analyzed before removing a Site or group of Sites from monitoring requirements under this Section, except as provided in Sections E.5.(d) and (e) below. The two samples required for initial sampling under Section D.1 are sufficient to meet this requirement provided analytical results for all pollutants of concern at the SMA at issue are at or below applicable target action levels. | Sampling locations | Y | Certifications of corrective actions complete for results below TALs on IP website |

| Permit Section | Section Title | Permit Requirement | Applicable Areas | Compliance Status (Y/N) | Method of Compliance |
|---|---|---|---|---|---|
| Part I.E. | CORRECTIVE ACTION | 1. Confirmation Results above Target Action Levels. (a) If, following installation of baseline control measures, any validated sample analytical result for a specific pollutant of concern at a particular SMA is greater than the applicable MTAL (or applicable MQL, whichever is greater) or the average of all applicable sampling results is greater than the applicable ATAL (or applicable MQL, whichever is greater), the Permittees shall conduct visual inspections for all Sites within the SMA drainage area, reevaluate the existing control measures, and initiate corrective action as soon as practicable. Such corrective action may entail the design and installation of enhanced (additional, expanded or better tailored) control measures reasonably expected to achieve compliance with target action levels identified in the Permit for all Sites within the SMA drainage area. If this type of corrective action is selected, at least two confirmation samples shall be collected (one confirmation sample shall be collected during each of at least two (2) separate measurable storm events occurring at least fifteen (15) days apart) following installation of any enhanced control. If either validated confirmation sample result for any specific pollutant of concern exceeds applicable target action levels, the Permittees shall conduct visual inspections for all Sites within the SMA drainage area, reevaluate the existing control measures, and initiate further measures to achieve completion of corrective action under Sections E.2 or 3 as soon as practicable. | Sampling locations | Y | Review of monitoring results and, if applicable, inspection of SMAs |

| Permit Section | Section Title | Permit Requirement | Applicable Areas | Compliance Status (Y/N) | Method of Compliance |
|---|---|---|---|---|---|
| | | 1. Confirmation Results above Target Action Levels. (b) If the Permittees decide to achieve corrective action under this Section through installation of measures to totally eliminate exposure of pollutants to stormwater at a Site, Permittees will be in compliance with this Permit at that Site once they have certified and demonstrated to EPA, through the submission of certified as-built drawings, that such measures have been properly installed to perform their function to totally eliminate exposure of pollutants to stormwater, and no further confirmation sampling is required, unless required by Section E.5(c). Thereafter, Permittees shall collect one sample and make the analytical results available via email notification and on the public website pursuant to Section I.7 of the Permit. If the Permittees decide to achieve corrective action under this Section through installation of total retention measures, Permittees will be in compliance with this Permit at that Site once they have certified and demonstrated to EPA, through the submission of certified as-built drawings, that such measures have been properly installed to perform their function to totally retain discharges of stormwater, and no further confirmation sampling is required, unless required by Section E.5(c). If the Permittees decide to achieve corrective action under this Section through demonstration that the Site has achieved RCRA "corrective action complete without controls/corrective action complete with controls" status or a Certificate of Completion under NMED's Consent Order, Permittees will be in compliance with this Permit at that Site once they have certified such results to EPA and provided the supporting documentation from NMED, and no further confirmation sampling is required except as provided by Section E.5(c) and Section I.2(b). | SMAs | Y | No exposure and corrective action complete certifications on IP website |
| | | 1. Confirmation Results above Target Action Levels. (c) Permittees shall certify completion of installation of control measures under this subsection to EPA within 30 days of completion of all such measures at the Site and, where applicable shall provide sampling results within 30 days of receipt of analytical results from the first measurable storm event after completion of such measures. Such certification shall be signed in accordance with 40 C.F.R. Section 122.22(b) and shall include a description and photographs of all completed measures. Except as provided in Section I.2, Permittees are required to continue to inspect the Site in accordance with Section G of the Permit and to maintain all control measures in effective operating condition as required by Section B.2. | SMAs | Y | Certifications of control measures and follow-up sampling results on IP website |

| Permit Section | Section Title | Permit Requirement | Applicable Areas | Compliance Status (Y/N) | Method of Compliance |
|---|---|---|---|---|---|
| | | 1. Confirmation Results above Target Action Levels. (d) For high priority sites, if no confirmation sample could be collected due to lack of a measurable storm event prior to the second year of the permit (or prior to September 30, 2012), then the compliance deadlines for corrective action under Section E.4 below, shall be extended for a one (1) year period following the first successful confirmation sampling event. | SMAs | Y | Per Annual Reports, all SMAs are compliant with corrective action deadlines (or extensions) |
| | | 2. Completion of Corrective Action. Permittees must certify to EPA, pursuant to 40 C.F.R. section 122.22(b), completion of corrective action at all Sites within the deadlines established under Section E.4 below. Except as provided in subsection E.3 below, "Completion of Corrective Action" under this Permit shall mean: (a) Analytical results from confirmation sampling show pollutant concentrations for all pollutants of concern at the Site to be at or below applicable target action levels; or (b) Control measures that totally retain and prevent the discharge of storm water have been installed at the Site; or (c) Control measures that totally eliminate exposure of pollutants to stormwater have been installed at the Site; or (d) The Site has achieved RCRA "corrective action complete without controls/corrective action complete with controls" status or a Certificate of Completion under NMED's Consent Order. | SMAs | Y | Corrective action complete certifications on IP website |
| | | 3. Alternative Compliance. (a) Where Permittees believe they have installed measures to minimize pollutants in their storm water discharges as required by Part 1.A of the Permit at a Site or Sites, but are unable to certify Completion of Corrective action under Sections E.2.(a) through E.2.(d) above (individually or collectively) due, for instance, to force majeure events, background concentrations of pollutants of concern, site conditions that make it impracticable to install further control measures, or pollutants of concern contributed by sources beyond the Permittees control, the Permittees may seek to place a site into Alternative Compliance, whereby Completion of Corrective Action will be accomplished on a case-by-case basis, and as necessary, pursuant to a individually tailored compliance schedule determined by EPA. | SMAs | Y | Annual Reports identify SMAs where alternate compliance has been requested |

| Permit Section | Section Title | Permit Requirement | Applicable Areas | Compliance Status (Y/N) | Method of Compliance |
|---|---|---|---|---|---|
| | | 3. Alternative Compliance. (b) To seek to place a Site or Sites into Alternative Compliance, the Permittees must file a written request with EPA and provide written notice to the public and opportunity for public comment. Such a request must include a comprehensive description of the control measures installed at the Site or Sites and a detailed demonstration, including any underlying studies and technical information, of how the Permittees reached the conclusion that they are unable to certify Completion of Corrective action under Sections E.2.(a) through E.2.(d) above (individually or collectively).<br>Upon submitting such a request to EPA, the Permittees shall make the request and all supporting information available to the public for review and comment for a period of forty-five (45) days, and shall develop and provide to the commenters a written response document addressing all relevant and significant concerns raised during the comment period. Permittees' request under this subsection, along with the complete record of public comment and the Permittees' response to comments shall be submitted to EPA Region 6 for a final determination on the request.<br>In making a final determination to place a Site or Sites into Alternative Compliance, EPA shall carefully consider all of the information submitted by the Permittees, including all comments received on the request and the Permittees response to those comments. The Permittees shall not be out of compliance with the applicable deadlines for achieving completion of corrective action under Section E.4 with respect to the Site or Sites covered by a request, provided that the request is submitted to EPA on or at least six months before the applicable deadlines. | SMAs | Y | Alternative Compliance Requests on IP website |
| | | 3. Alternative Compliance. (c) If the Permittees' request under this subsection is denied, EPA shall promptly notify the<br>Permittees of the specifics of its decision and of the timeframe under which Completion of Corrective Action under Sections E.2.(a) through E.2. (d) above (individually or collectively) must be accomplished for that Site or Sites. EPA will determine the timeframe on a case-by-case basis taking into consideration the types of actions Permittees will be required to take, the time needed to complete such actions, and the need to complete corrective action as expeditiously as possible. | SMAs | Y | Alternative Compliance Requests have been submitted and are pending U.S. EPA response |

| Permit Section | Section Title | Permit Requirement | Applicable Areas | Compliance Status (Y/N) | Method of Compliance |
|---|---|---|---|---|---|
| | | 3. Alternative Compliance. (d) If the Permittees' request under this subsection is granted, in whole or in part, EPA will issue a new, individually tailored work plan for the Site or Sites that may include, among other requirements, specific control measure enhancements, mitigation measures to address discharges from the Site or Sites, and any other requirements deemed necessary by EPA under the CWA, and will extend the compliance deadline for Completion of Corrective Action as necessary to implement the work plan. EPA may condition its response on the Permittees' acceptance of such conditions (applicable to the Site or Sites covered by the request) as may be reasonable and warranted in view of the demonstration submitted with the request. | SMAs | Y | Alternative Compliance Requests have been submitted and are pending U.S. EPA response |
| | | 4. Deadlines for Corrective Action. (a) Permittees must certify completion of corrective action under Part I.E.2 of the Permit for all High Priority Sites (refer to permit for list) within three (3) years of the effective date of the Permit, or such other time period as may be specified pursuant to Section E.3 or E.5.d. Such certification shall be forwarded to the Chief of the NPDES Compliance Section (R6-ENWC), with copies to the Chief of the NPDES Permits and Technical Assistance Section (6WQ-PP) and NMED's Surface Water Quality Bureau (SWQB). | SMAs | Y | Per Annual Reports, all SMAs are compliant with corrective action deadlines (or extensions) |
| | | 4. Deadlines for Corrective Action. (b) The remaining Sites identified in Appendix A are Moderate Priority Sites. Permittees must certify completion of corrective action under Part I.E.2 of the Permit for all Moderate Priority Sites within five (5) years of the effective date of the Permit, or such other time period as may be specified pursuant to Section E.3 or E.5.d. Such certification shall be forwarded to the Chief of the NPDES Compliance Section (R6-ENWC), with copies to the Chief of the NPDES Permits and Technical Assistance Section (6WQ-PP) and NMED's Surface Water Quality Bureau (SWQB). | SMAs | Y | Per Annual Reports, all SMAs are compliant with corrective action deadlines (or extensions) |
| | | 4. Deadlines for Corrective Action. (c) The Permittees may seek EPA approval for an extension to a deadline if the Permittees can demonstrate that "force majeure" has resulted, or will result, in a delay in meeting the obligation to confirm Completion of Corrective Action by the specified deadline.To obtain an extension from EPA, the Permittees shall describe in detail: (a) the cause or causes of the delay; (b) the expected duration of the delay, including any obligations that would be affected; (c) the actions taken or to be taken by the Permittees to minimize the delay; and (d) the timetable by which those actions are expected to be implemented. | SMAs | Y | Per Annual Reports, all SMAs are compliant with corrective action deadlines (or extensions) and a Force Majeure request (on IP website) was submitted to the U.S. EPA on 4/17/20 |

| Permit Section | Section Title | Permit Requirement | Applicable Areas | Compliance Status (Y/N) | Method of Compliance |
|---|---|---|---|---|---|
| | | 5. Additional Sampling Requirements. (a) If installation of control measures at a particular Site does not involve soil disturbance, the Permittees may choose to monitor only those pollutants for which previous monitoring data, including samples collected under the 2005 Federal Facility Compliance Agreement (FFCA), demonstrates an exceedance of the applicable target action levels as listed in Section C of this Permit. If monitoring of PCBs is required, analysis for PCBs must be re-conducted unless Method 1668A or later revision of congener method was used in the previous analyses. If soil disturbance is involved, all listed pollutants of concern at that Site listed in Appendix B of the Permit shall be analyzed. Installation and routine maintenance of monitoring devices is not considered to involve soil disturbance. | SMAs | Y | Visual inspection of SMAs and review of monitoring results |
| | | 5. Additional Sampling Requirements. (b) Sampling is not required for any Site which is designated by the Permittees in writing to EPA as a “No Exposure” Site, provided such “No Exposure” status has been verified and confirmed in writing by EPA and the Site is continuously maintained under such status. EPA may request NMED provide such verification on behalf of EPA. (Note: “No Exposure” in this permit means that all pollutants of concern are protected from being exposed to storm water, including rain, snow, snowmelt and/or runoff). | SMAs | Y | No exposure certifications on IP website |

| Permit Section | Section Title | Permit Requirement | Applicable Areas | Compliance Status (Y/N) | Method of Compliance |
|---|---|---|---|---|---|
| | | 5. Additional Sampling Requirements. (c) Notwithstanding the provisions of Sections D.4 and E.1, and except as provided in Section I.2, if a Site for which monitoring has ceased, later exhibits evidence of a discharge of contaminated runoff, or conditions that could lead to a discharge of contaminated runoff, such as control measure failure, erosion problems, re-exposure of "no exposure" Sites, or if monitoring data (from the facility, State or local agency), shows an exceedance of applicable target action levels, the Permittees shall initiate appropriate actions to correct the problems within thirty (30) days of being made aware of such information. After completion of any required corrective actions, at least two confirmation samples shall be taken. One confirmation sample shall be collected during each of at least two (2) separate measurable storm events occurring at least fifteen (15) days apart and within one (1) year of completion of the corrective action to evaluate the effectiveness of the action. If confirmation samples show the problem continues, control measures sufficient to reduce pollutant concentration levels to at or below target action levels or control measures designed to totally eliminate the discharge of pollutants from the Site shall be installed and implemented within one year from receipt of analytical results. Confirmation sampling is not required if such a corrective action is part of routine control measure maintenance prior to any evidence of discharge of contaminated runoff. Any actions taken under this paragraph must be summarized in the Annual SDPPP update and in the Annual Report. | SMAs | Y | Visual inspection of SMAs and review of monitoring results |
| | | 5. Additional Sampling Requirements. (d) If, during any period in which two (2) confirmation samples are required, only one confirmation sample could be collected from a measurable storm event, compliance with applicable target action levels for that particular Site or Sites will be determined by the single confirmation sample result. | Sampling locations | Y | Annual Reports compare all sample results to TALs |

| Permit Section | Section Title | Permit Requirement | Applicable Areas | Compliance Status (Y/N) | Method of Compliance |
|---|---|---|---|---|---|
| | | 5. Additional Sampling Requirements. (e) If no confirmation sample could be collected during the applicable period from a measurable storm event, confirmation sampling shall continue until at least one sample is collected, and compliance with applicable target action levels for that particular Site or Sites will be determined based on the single result from the first successful confirmation sampling event. If the Permittees are unable to collect samples from a measurable storm event for a particular Site or Sites, the adjusted deadline for Completion of Corrective Action for that Site or Sites shall be 6 months after receipt of a single result from the first successful confirmation sampling event or the deadline specified under Section E.4 for that Site, whichever is later. In the event it is impracticable to meet the adjusted deadline due to conditions affecting the Permittees' ability to install the necessary measures, the Permittees may request a further extension. EPA may grant a further extension after taking into account the anticipated seasonal construction conditions and any other relevant factors. | Sampling locations | Y | Per Annual Reports, monitoring is completed or has been extended |
| | | 5. Additional Sampling Requirements. (f) Monitoring Location Change. If the location of any SMA for any Site or Sites has been changed, confirmation samples must be analyzed for all pollutants of concern for that Site or Sites, as listed in Appendix B of the Permit. | Sampling locations | Y | Review of monitoring results |
| Part I.F. | SITE DISCHARGE POLLUTION PREVENTION PLAN | 1. Contents of SDPPP. (a) Site Discharge Pollution Prevention Team. The Permittees must identify the staff members (by name or title) that comprise the facility's Site Discharge Pollution Prevention Team (Pollution Prevention Team). Specific responsibilities of each staff individual on the Team must be identified and listed in the SDPPP. Each member of the Pollution Prevention Team must have ready access to either an electronic or paper copy of applicable portions of this Permit and the facility's SDPPP. | SDPPP | Y | Review of SDPPP |
| | | 1. Contents of SDPPP. (b) Site Description. The facility's SDPPP must include historical activities at each Site, precipitation information, general location map, and Site maps. | SDPPP | Y | Review of SDPPP |
| | | 1. Contents of SDPPP. (c) Receiving Waters and Wetlands. The SDPPP must include the name(s) of all receiving waters that receive discharges from Sites covered by this permit. The SDPPP must also include the size and description of wetlands or other special aquatic sites. | SDPPP | Y | Review of SDPPP |

| Permit Section | Section Title | Permit Requirement | Applicable Areas | Compliance Status (Y/N) | Method of Compliance |
|---|---|---|---|---|---|
| | | 1. Contents of SDPPP. (d) Summary of Potential Pollutant Sources. The SDPPP must identify each Site at the facility where industrial materials or activities were previously exposed to storm water and from which allowable non-storm water discharges were released. The SDPPP must also identify the pollutants of concern associated with those activities. and from which allowable non-storm water discharges were released. The SDPPP must also identify the pollutants of concern associated with those activities. | SDPPP | Y | Review of SDPPP |
| | | 1. Contents of SDPPP. (e) Description of Control Measures. The SDPPP must identify the baseline control measures specified in Appendix E that will be, or which have been implemented for each Site to address the pollutant sources identified above, and to address storm water run-on that commingles with discharges associated with industrial activity. The Permittees must update the SDPPP as needed to document additional control measures implemented at any Site as a result of Corrective Action under Section E of the Permit. The SDPPP must include sufficient detail to identify and describe the Site-specific control measures. | SDPPP | Y | Review of SDPPP |
| | | 1. Contents of SDPPP. (f) Schedules for Control Measure Installation. The SDPPP must include schedules for baseline control measure installation and implementation for each Site, and must be updated as necessary to include schedules for additional control measure installation and implementation resulting from Corrective Action under Section E of the Permit. If the Permittees find that significant amounts of pollutants are running onto a specific Site, the Permittees should identify and address the contaminated run-on in the annual SDPPP update. | SDPPP | Y | Review of SDPPP |
| | | 1. Contents of SDPPP. (g) Monitoring and Inspection Procedures. The Permittees must document in the SDPPP schedules and planned procedures for sample collection and site inspection. For each sample to be collected, the SDPPP must identify: (i) Locations where samples are to be collected, including coordinates for sampling locations and any determination that two or more Sites are substantially identical; (ii) Person(s) or positions of person(s) responsible for sample collection; (iii) Parameters to be sampled and frequency of sampling for each parameter; (iv) Procedures for gathering storm event data. The Permittees must document in the SDPPP all tentative schedules and procedures for erosion and post-storm inspections as described in Sections G. 1 & 2.of the Permit below. | SDPPP | Y | Review of SDPPP |
| | | 1. Contents of SDPPP. (h) Signature Requirements. The SDPPP shall be signed, certified and dated in accordance with 40 CFR 122.22(b) no later than one hundred-eighty (180) days from the effective date of this Permit. | SDPPP | Y | Review of SDPPP |

| Permit Section | Section Title | Permit Requirement | Applicable Areas | Compliance Status (Y/N) | Method of Compliance |
|---|---|---|---|---|---|
| | | 2. Documentation. The initial SDPPP document must include records and documents as described in Section F.1 above to comply with this permit. Additionally, the Permittees are required to maintain inspection, monitoring, and certification documentation with the SDPPP. Following the preparation of the initial SDPPP, the Permittees must at a minimum keep the following records and documentation alongside the SDPPP:<br>(a) Dates of training sessions, names of employees trained, and subject matter of training;<br>(b) Sampling reports including sampling dates, analytical results, outfall locations, name and qualifications of technician;<br>(c) Inspection reports, including visual inspections required by Section E.1 above, and any other information required to be included in an Inspection Report under Section G.3.below;<br>(d) An accounting of and explanation of the length of time taken to modify control measures or implement additional control measures following the discovery of a deficiency or the need for modification;<br>(e) Documentation of maintenance and repairs of control measures, including the date(s) of regular maintenance, date(s) of discovery of areas in need of repair/replacement, and for repairs, the date(s) that control measure(s) returned to full function, and the justification for any extended maintenance/repair schedules. | SDPPP | Y | Review of SDPPP |
| | | 3. Required Modifications. The Permittees must keep documents and records with the SDPPP as necessary to reflect:(a) Construction or a change in design, operation, or maintenance at the facility having a significant impact on the discharge, or potential for discharge, of pollutants from the facility;(b) Findings of deficiencies in control measures during inspection or based on analytical monitoring results;(c) Any change of monitoring requirement or compliance status;(d) Any change of SMA location; and(e) Summary of changes from the last year's SDPPP.If any of the circumstances described above occur at any Site, the Permittees must address these changes or deficiencies to ensure compliance with this Permit's conditions and applicable monitoring requirements. All changes must be incorporated into the SDPPP (see Section F.4 below) and a summary of these changes must be included in the Annual Report. | SDPPP | Y | Review of SDPPP |
| | | 4. SDPPP Updates. The SDPPP shall be updated annually to fully incorporate all changes made during the previous year and to reflect any changes projected for the following year. | SDPPP | Y | Review of SDPPP |

| Permit Section | Section Title | Permit Requirement | Applicable Areas | Compliance Status (Y/N) | Method of Compliance |
|---|---|---|---|---|---|
| | | 5. SDPPP Availability. The Permittees must retain a paper copy of the current SDPPP required by this Permit at the facility, and it must be immediately available to EPA, a State, Tribal or local agency approving storm water management plans, the Pollution Prevention Team members, and representatives of the U.S. Fish and Wildlife Service (USFWS) or the National Marine Fisheries Service (NMFS) at the time of an onsite inspection or upon request. In accordance with Section I.7 of this permit, a copy of the SDPPP will also be made available on a public website. | SDPPP | Y | Review of SDPPP |
| Part I.G. | INSPECTIONS | 1. Erosion Inspection and Reevaluation. The facility's Pollution Prevention Team shall inspect and evaluate each Site annually for changes of conditions affecting erosion. The facility's Pollution Prevention Team must also re-inspect and reevaluate all Sites after notice of a significant event, such as a fire, which could significantly impact the control measures and environmental conditions in the affected area. Such inspection and reevaluation should be conducted prior to the next anticipated storm event or as early as practicable. | SMAs | Y | Review of inspection documentation |
| | | 2. Post-Storm Inspection. The facility's Pollution Prevention Team must inspect control measures and storm water management devices at any Site affected by a "storm rain event" defined below, within fifteen (15) calendar days after such storm rain event. The occurrence of a storm rain event as defined below shall be determined based on data from the nearest meteorological tower to any particular Site. A "storm rain event" under this paragraph means a 0.25-inch or more intensive rain event within 30 minutes. If several storms exceeding the above intensity threshold occur over a period not to exceed fifteen (15) days from the first event, a single inspection following these storms is sufficient for compliance with this requirement, provided that the inspection occurs no more than fifteen (15) days from the date of the first storm. If adverse weather conditions prevent a site inspection within the required time period, the Permittees shall inspect the Site as soon as practicable. Adverse weather events shall be documented and maintained with the SDPPP. Adverse weather conditions include dangerous weather-related events (e.g., flooding, wildfires, or hail) that make site inspection dangerous for worker safety. | SMAs | Y | Review of inspection documentation |

| Permit Section | Section Title | Permit Requirement | Applicable Areas | Compliance Status (Y/N) | Method of Compliance |
|---|---|---|---|---|---|
| | | 3. Inspection Report. All inspection reports shall include, at a minimum, the following items:<br>(a) The personnel who conduct the inspections;<br>(b) Date(s) on which inspection was performed;<br>(c) A written summary of major observations, including observation of deficiency;<br>(d) A summary of evidence of potential contaminants, BMP failure, or alteration of management structure or runoff pathway, etc.;<br>(e) Actions that should be taken to correct noted deficiencies;<br>(f) Photo documentation of findings at the Site if necessary; and<br>(g) The signature of the delegated official of the Permittees and certification of findings, including observation of no deficiency. | SMAs | Y | Review of inspection documentation |
| | H. REPORTING | 1. Compliance Status Reports. Each SMA ID number shall be provided an outfall number for ease of reporting. That list is provided in Appendix D. Monitoring results for each SMA ID shall be reported on the sample forms provided in Appendix D. The information includes, at a minimum, the assigned outfall number, the SMA ID number, pollutants of concern greater than the applicable target action levels, targeted control measure completion date, and actual control measure completion date if control measure installation and implementation is complete. EPA may require the Permittees to submit additional information. These reports shall be signed, certified, and dated in accordance with 40 CFR 122.22(b). Reporting period is from January 1st to December 31st. The first reporting period is from the effective date of the permit to December 31, 2010, and the first DMR report is due on March 1, 2011. In addition to electronic and paper reports to EPA 6's Enforcement Division, a copy of these reports shall be sent to the Chief of the NPDES Permits and Technical Assistance Section (6WQ-PP) and NMED's Surface Water Quality Bureau (SWQB). | SMAs | Y | Review of Compliance Status Reports |
| | | 2. Annual Reports. The Permittees shall submit an annual status report. This report shall include the following:<br>(a) For each SMA (or Site), a summary of the Site-specific compliance status during the report period;<br>(b) SMA and associated Outfall and Site(s) numbers/identifications;<br>(c) Monitoring results available during the reporting period;<br>(d) Identification of pollutants which exceed applicable MTAL or ATAL;<br>(e) Description of baseline control measures installed, including the completion date or targeted completion date;<br>(f) Description of corrective actions required under Section E of this Permit to be taken or having been taken, including completion date or targeted | SMAs | Y | Review of Annual Reports |

| Permit Section | Section Title | Permit Requirement | Applicable Areas | Compliance Status (Y/N) | Method of Compliance |
|---|---|---|---|---|---|
| | | completion date, and Progress update;<br>(g) Identification of Sites which meet No Exposure status;<br>(h) Identification of Sites which meet "corrective action complete without controls/corrective action complete with controls" under RCRA or which have been issued a Certificate of Completion under the NMED Consent Order;<br>(i) Highlights of any change of compliance status from the Annual Report;<br>(j) Lists of requests, for EPA's approval, including any requests for change of monitoring location or Site deletion and any requests to place a Site or Sites into Section E.3 Alternative compliance; and<br>(k) A summary of inspections performed in accordance with Sections G. 1 and 2 above, as well as for any visual inspections performed under Section E.1 above.<br>Copies of the Annual Reports in electronic format (e.g., compact discs or other acceptable media) shall be submitted to EPA 6EN, EPA 6WQ-PP and NMED's SWQB no later than March 1 of each year. A copy of each Report shall be kept with the facility's SDPPP and a copy of the most current Annual Report shall be maintained on Permittees' public website. | | | |
| | I. OTHER CONDITIONS | 1. Construction Activity Associated with Site Remediation. If disturbance of soil is required to install a control measure, the Permittees shall take all necessary steps to minimize migration of sediments and runoff from disturbed sites. Steps taken to minimize discharges of contaminated runoff during remediation activity shall be included in the SDPPP update. The Permittees shall conduct site inspections once a week to ensure sediments and runoffs control measures are maintained in good order. Corrective actions shall be taken immediately if deficiencies of sediments and runoff control measures are noticed either by inspectors or contractors. Storm water discharges associated with construction activity disturbing one acre or more are not covered under this permit. Storm water discharges associated with construction activity disturbing one acre or more must be covered under EPA's Construction General Permit (CGP) or through a separate individual NPDES permit. | SMAs | Y | Visual inspection of remediation areas, if applicable |

| Permit Section | Section Title | Permit Requirement | Applicable Areas | Compliance Status (Y/N) | Method of Compliance |
|---|---|---|---|---|---|
| | | 2. Deletion of Site. The Permittees may submit a written request to remove a Site if the Permittees can demonstrate that the Site meets one of the following conditions: (a) The Site was never used for management of hazardous waste, assuming the Site does not otherwise meet the definitions of industrial activities (40 CFR 122.26(b)(14)(i) through (xi)); or (b) The Site has met RCRA's "corrective action complete without controls/corrective action complete with controls" status or the Site has received a Certificate of Completion under NMED's Consent Order and confirmation samples of runoff have demonstrated concentrations no greater than applicable target action levels. EPA may approve such a request as a minor modification to the Permit under 40 C.F.R. § 122.63. If such a request is approved, EPA will notify the Permittees in writing and issue a written public notice that the Permit has been modified to remove the Site from the Permit prior to the expiration of the Permit. Documents to support such requests and decisions must be kept with facility's SDPPP. Once a Site is removed from the Permit, a discharge of contaminated runoff is no longer authorized by this Permit. | SMAs | Y | Per Annual Reports, requests to delete twelve sites were submitted in 2015 and are pending U.S. EPA response |
| | | 3. Watershed Protection Approach. EPA encourages the Permittees to voluntarily install watershed-based control measures, such as sediment barriers, to mitigate sediment or storm water runoff reaching the main channels of the canyons and/or the Rio Grande. The Permittees should include information and monitoring data regarding the installation of any such watershed-based control measures in the Annual Report or the SDPPP. | All | Y | Visual inspection of watershed-based control measures |
| | | 4. Record Keeping. The Permittees shall retain records of all monitoring information and reports, Site inspections and reports, decision making procedures and supporting documents and records, and annual SDPPP updates with supplemental information for at least three years after the issuance of the next permit renewal. | All | Y | Review of records |
| | | 5. Reopener and Modification. This Permit may be reopened and modified in accordance with 40 C.F.R. § 122.62. Any changes to monitoring and/or control measure requirements made to the Permit in accordance with such a permit modification shall be addressed in the Annual Report and in the annual SDPPP update. | NA | NA | NA |

| Permit Section | Section Title | Permit Requirement | Applicable Areas | Compliance Status (Y/N) | Method of Compliance |
|---|---|---|---|---|---|
| | | 6. Permit Compliance. Any noncompliance with any of the requirements of this Permit constitutes a violation of the Clean Water Act. Failure to take any required corrective actions constitute an independent violation of this Permit and the Clean Water Act. As such, any actions and time periods specified for remedying noncompliance do not absolve parties of the initial underlying noncompliance. However, where corrective action is triggered by an event that does not itself constitute Permit noncompliance, such as an exceedance of an applicable target action level prior to the deadline for corrective action established in Section I.E.3 of the Permit, there is no permit violation provided Permittees take the required corrective action within the relevant deadlines. Any corrective action required under this Permit must be completed by the deadlines or extensions established in Section E. of the Permit. If completion of corrective action, as defined under Section I.E.2 of the Permit, has not been demonstrated at any given Site by the deadlines or extensions established in Section E, Permittees are in violation of this Permit at that Site. | All | Y | Review of records |
| | | 7. Public Involvement. (a) Website: Within six (6) months after the effective date of the Permit, the Permittees shall establish a public website where information on the Permit, including the SDPPP, Annual Reports, **Inspection Reports**, DMRs, transmittal correspondence between Permittees and EPA, and other relevant data and documents, will be made available. A copy (either paper or electronic) of these documents will also be made available by the Permittees as soon as practicable to any member of the public who makes such a request in writing. Confidential Business Information (CBI) may not be withheld from regulatory agencies, but may be withheld from the public. All portions of the SDPPP not identified as CBI, pursuant to 40 CFR Part 2, must be provided to the public upon request. | Public website | N | No inspection reports on IP website. Per 7/22 meeting with N3B, some of the reports contain CBI. The rest should be posted on the public website. |
| | | 7. Public Involvement. (b) E-mail notification: The Permittees will provide the opportunity for members of the public to register for and receive e-mail notifications on compliance with the Permit on the public website. E-mail notifications will provide notice of completion of installation of baseline control measures, updates on permit compliance, any requests for time extensions, spill information, and notification of any modification to the Permit or SDPPP including changing SMA locations, removing, deleting, or adding sites, and completions of corrective action. Such notifications will have a direct link to the specific document to which it relates. Notice will also be provided for any request to complete correction action under Section I.E.3 of the Permit. | Public website | Y | Review of public website |

| Permit Section | Section Title | Permit Requirement | Applicable Areas | Compliance Status (Y/N) | Method of Compliance |
|---|---|---|---|---|---|
| | | 7. Public Involvement. (c) Public Meetings: The Permittees shall publish a public notice and send an email notification to members of the public who have registered as provided in Section 7(b) about public meetings which will be held approximately every 6 months. The Permittees shall update the public on implementation of and compliance with the permit and provide an opportunity for both written and oral public comment. The meetings may be combined with other public meetings, but Permittees shall provide a discrete, separate time for comment and discussion of this Permit. Permittees shall email a draft Agenda at least one week before the meeting and will consider suggestions from the public for changes or additions to the Agenda. | Public website | Y | Review of public website |
| Part I.J. | WATER QUALITY-BASED EFFLUENT LIMITS | Permittees must control discharges from all Sites as necessary to ensure that such discharges will not cause or contribute to a violation of applicable water quality standards. EPA believes that compliance with the technology-based effluent limitations and other terms and conditions of this permit will control discharges as necessary to meet applicable water quality standards. | SMAs | Y | Visual inspection of SMAs |

### A.1.2 PART II OTHER CONDITIONS

| Permit Section | Section Title | Permit Requirement | Applicable Areas | Compliance Status (Y/N) | Method of Compliance |
|---|---|---|---|---|---|
| Part II.A. | MINIMUM QUANTIFICATION LEVEL | If any individual analytical test result is less than the minimum quantification level listed in Part I.A.3.a. or in Appendix C, a value of zero (0) may be used for that individual result for reporting purpose. The permittee may develop an effluent specific method detection limit (MDL) in accordance with Appendix B to 40CFR136. For any pollutant for which the permittee determines an effluent specific MDL, the permittee shall send to the EPA Region 6 NPDES Permits and TMDL Branch (6WQ-P) a report containing QA/QC documentation, analytical results, and calculations necessary to demonstrate that the effluent specific MDL was correctly calculated. An effluent specific minimum quantification level (MQL) shall be determined in accordance with the following calculation: MQL = 3.3 x MDL. The permittees may also develop congener-basis storm water effluent-specific MQLs for PCBs. Upon written approval by the EPA Region 6 NPDES Permits and TMDL Branch (6WQ-P), the effluent specific MQL may be utilized by the permittee for all future Discharge Monitoring Report (DMR) reporting requirements. | All | Y | Review of EPA correspondence, if applicable |

| Permit Section | Section Title | Permit Requirement | Applicable Areas | Compliance Status (Y/N) | Method of Compliance |
|---|---|---|---|---|---|
| Part II.B. | 24-HOUR ORAL REPORTING | Exceedances of maximum target levels (MTLs) for any applicable pollutants shall be reported orally to EPA Region 6, Compliance and Assurance Division, Water Enforcement Branch (6EN-W), Dallas, Texas and NMED, Surface Water Quality Bureau (SWQB), Santa Fe, New Mexico within 24 hours from the time the permittee becomes aware of the exceedance. | All | Y | Review of records |
| Part II.C. | COMPOSITE SAMPLING | Unless otherwise specified in this permit, the term "composite sample" means samples collected either by an automatic sampler or by manual, during the whole or part of a rainfall period, are composited prior to an analysis. The permittee may use either grab samples or flow-weighted composite samples for monitoring purpose for specific Sites as long as it keeps practice consistency. | All | NA | NA |
| Part II.D. | DATA AVERAGE | The average is the geometric mean of applicable monitoring results at the SMA. If all analytical results are below analytical method detect level, a value of “zero” may be reported. If one or more data are above detect level, a value of one-half (½) of the detect level shall be assigned to those below detect level data for calculation purpose. If the average value of a specific pollutant is below its MQL, a value of zero (0) may be reported for the average. If a new or an enhanced BMP is installed, the average is calculated based on analytical results from samples taken after installation of the BMP. | Sampling locations | Y | Review of analytical results |
| Part II.E. | PERMIT REOPENER | The Permit may be reopened and modified during the life of the Permit if relevant portions of New Mexico’s Water Quality Standards for Interstate and Intrastate Streams are revised, or new State water quality standards are established and/or remanded by the New Mexico Water Quality Control Commission. The Permit also may be reopened and modified if new information, e.g., EPA approved TMDLs, and etc., is received that was not available at the time of permit issuance that would have justified the application of different permit conditions at the time of permit issuance. | All | Y | Permit renewal application acceptance and issuance of draft permit by U.S. EPA |

### A.1.3 PART III STANDARD CONDITIONS FOR NPDES PERMITS

| Permit Section | Section Title | Permit Requirement | Applicable Areas | Compliance Status (Y/N) | Method of Compliance |
|---|---|---|---|---|---|
| Part III.A. | GENERAL CONDITIONS | 1. INTRODUCTION. In accordance with the provisions of 40 CFR Part 122.41, et. seq., this permit incorporates by reference ALL conditions and requirements applicable to NPDES Permits set forth in the Clean Water Act, as amended, (hereinafter known as the "Act") as well as ALL applicable regulations. | All | Y | NA |
| | | 2. DUTY TO COMPLY. The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. | All | Y | Review records for non-compliances |
| | | 3. TOXIC POLLUTANTS. a. Notwithstanding Part III.A.5, if any toxic effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) is promulgated under Section 307(a) of the Act for a toxic pollutant which is present in the discharge and that standard or prohibition is more stringent than any limitation on the pollutant in this permit, this permit shall be modified or revoked and reissued to conform to the toxic effluent standard or prohibition. | All | Y | State Certification, 11/30/20 |
| | | 3. TOXIC POLLUTANTS. b. The permittee shall comply with effluent standards or prohibitions established under Section 307(a) of the Act for toxic pollutants within the time provided in the regulations that established those standards or prohibitions, even if the permit has not yet been modified to incorporate the requirement. | All | Y | State Certification, 11/30/20 |
| | | 4. DUTY TO REAPPLY. If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee must apply for and obtain a new permit. The application shall be submitted at least 180 days before the expiration date of this permit. The Director may grant permission to submit an application less than 180 days in advance but no later than the permit expiration date. Continuation of expiring permits shall be governed by regulations promulgated at 40 CFR Part 122.6 and any subsequent amendments. | All | Y | Permit renewal application acceptance and issuance of draft permit by U.S. EPA |
| | | 5. PERMIT FLEXIBILITY. This permit may be modified, revoked and reissued, or terminated for cause in accordance with 40 CFR 122.62-64. The filing of a request for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition. | All | Y | Permit renewal application acceptance and issuance of draft permit by U.S. EPA |
| | | 6. PROPERTY RIGHTS. This permit does not convey any property rights of any sort, or any exclusive privilege. | All | Y | NA |

| Permit Section | Section Title | Permit Requirement | Applicable Areas | Compliance Status (Y/N) | Method of Compliance |
|---|---|---|---|---|---|
| | | 7. DUTY TO PROVIDE INFORMATION. The permittee shall furnish to the Director, within a reasonable time, any information which the Director may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The permittee shall also furnish to the Director, upon request, copies of records required to be kept by this permit. | All | Y | Permit renewal application acceptance and issuance of draft permit by U.S. EPA |
| | | 8. CRIMINAL AND CIVIL LIABILITY. Except as provided in permit conditions on "Bypassing" and "Upsets", nothing in this permit shall be construed to relieve the permittee from civil or criminal penalties for noncompliance. Any false or materially misleading representation or concealment of information required to be reported by the provisions of the permit, the Act, or applicable regulations, which avoids or effectively defeats the regulatory purpose of the Permit may subject the Permittee to criminal enforcement pursuant to 18 U.S.C. Section 1001. | All | Y | Review records for penalties |
| | | 9. OIL AND HAZARDOUS SUBSTANCE LIABILITY. Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under Section 311 of the Act. | All | Y | Review records for legal actions and penalties related to oil and hazardous substances |
| | | 10. STATE LAWS. Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any applicable State law or regulation under authority preserved by Section 510 of the Act. | All | Y | Review records for state legal actions and penalties |
| | | 11. SEVERABILITY. The provisions of this permit are severable, and if any provision of this permit or the application of any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby. | All | Y | Permit renewal application acceptance and issuance of draft permit by U.S. EPA |
| Part III.B. | PROPER OPERATION AND MAINTENANCE | 1. NEED TO HALT OR REDUCE NOT A DEFENSE. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. The permittee is responsible for maintaining adequate safeguards to prevent the discharge of untreated or inadequately treated wastes during electrical power failure either by means of alternate power sources, standby generators or retention of inadequately treated effluent. | All | Y | Visual inspection of facility |

| Permit Section | Section Title | Permit Requirement | Applicable Areas | Compliance Status (Y/N) | Method of Compliance |
|---|---|---|---|---|---|
| | | 2. DUTY TO MITIGATE. The permittee shall take all reasonable steps to minimize or prevent any discharge in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment. | SMAs | Y | Visual inspection of SMAs |
| | | 3. PROPER OPERATION AND MAINTENANCE. a. The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by permittee as efficiently as possible and in a manner which will minimize upsets and discharges of excessive pollutants and will achieve compliance with the conditions of this permit. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures. This provision requires the operation of backup or auxiliary facilities or similar systems which are installed by a permittee only when the operation is necessary to achieve compliance with the conditions of this permit. | SMAs | Y | Visual inspection of SMAs and review of analytical data QA protocols |
| | | 3. PROPER OPERATION AND MAINTENANCE. b. The permittee shall provide an adequate operating staff which is duly qualified to carry out operation, maintenance and testing functions required to insure compliance with the conditions of this permit. | All | Y | Review of records |
| | | 4. BYPASS OF TREATMENT FACILITIES. a. BYPASS NOT EXCEEDING LIMITATIONS. The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of Parts III.B.4.b. and 4.c. | SMAs | NA | Review of submittals |
| | | 4. BYPASS OF TREATMENT FACILITIES. b. NOTICE. (1) ANTICIPATED BYPASS. If the permittee knows in advance of the need for a bypass, it shall submit prior notice, if possible at least ten days before the date of the bypass. | SMAs | NA | Review of submittals |
| | | 4. BYPASS OF TREATMENT FACILITIES. b. NOTICE. (2) UNANTICIPATED BYPASS. The permittee shall, within 24 hours, submit notice of an unanticipated bypass as required in Part III.D.7. | SMAs | NA | Review of submittals |

| Permit Section | Section Title | Permit Requirement | Applicable Areas | Compliance Status (Y/N) | Method of Compliance |
|---|---|---|---|---|---|
| | | 4. BYPASS OF TREATMENT FACILITIES. c. PROHIBITION OF BYPASS. (1) Bypass is prohibited, and the Director may take enforcement action against a permittee for bypass, unless: (a) Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage; (b) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and, (c) The permittee submitted notices as required by Part III.B.4.b. | SMAs | NA | Review of submittals |
| | | 4. BYPASS OF TREATMENT FACILITIES. c. PROHIBITION OF BYPASS. (2) The Director may allow an anticipated bypass after considering its adverse effects, if the Director determines that it will meet the three conditions listed at Part III.B.4.c(1). | SMAs | NA | Review of submittals |
| | | 5. UPSET CONDITIONS. a. EFFECT OF AN UPSET. An upset constitutes an affirmative defense to an action brought for noncompliance with such technology-based permit effluent limitations if the requirements of Part III.B.5.b. are met. No determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is final administrative action subject to judicial review. | SMAs | NA | Review of submittals |
| | | 5. UPSET CONDITIONS. b. CONDITIONS NECESSARY FOR A DEMONSTRATION OF UPSET. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that: (1) An upset occurred and that the permittee can identify the cause(s) of the upset; (2) The permitted facility was at the time being properly operated; (3) The permittee submitted notice of the upset as required by Part III.D.7; and, (4) The permittee complied with any remedial measures required by Part III.B.2. | SMAs | NA | Review of submittals |
| | | 5. UPSET CONDITIONS. c. BURDEN OF PROOF. In any enforcement proceeding, the permittee seeking to establish the occurrence of an upset has the burden of proof. | SMAs | NA | Review of submittals |
| | | 6. REMOVED SUBSTANCES. Unless otherwise authorized, solids, sewage sludges, filter backwash, or other pollutants removed in the course of treatment or wastewater control shall be disposed of in a manner such as to prevent any pollutant from such materials from entering navigable waters. | SMAs | Y | Visual inspection of SMAs |

| Permit Section | Section Title | Permit Requirement | Applicable Areas | Compliance Status (Y/N) | Method of Compliance |
|---|---|---|---|---|---|
| Part III.C. | MONITORING AND RECORDS | 1. INSPECTION AND ENTRY. The permittee shall allow the Director, or an authorized representative, upon the presentation of credentials and other documents as may be required by the law to: a. Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit; b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit; c. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices or operations regulated or required under this permit; and d. Sample or monitor at reasonable times, for the purpose of assuring permit compliance or as otherwise authorized by the Act, any substances or parameters at any location. | All | Y | Permit renewal application acceptance and issuance of draft permit by U.S. EPA |
| | | 2. REPRESENTATIVE SAMPLING. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity. | SMAs | Y | Review of monitoring results |
| | | 3. RETENTION OF RECORDS. The permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least 3 years from the date of the sample, measurement, report, or application. This period may be extended by request of the Director at any time. | All | Y | Review of records |
| | | 4. RECORD CONTENTS. Records of monitoring information shall include:<br>a. The date, exact place, and time of sampling or measurements;<br>b. The individual(s) who performed the sampling or measurements;<br>c. The date(s) and time(s) analyses were performed;<br>d. The individual(s) who performed the analyses;<br>e. The analytical techniques or methods used; and<br>f. The results of such analyses. | SMAs | Y | Review of monitoring results |
| | | 5. MONITORING PROCEDURES. a. Monitoring must be conducted according to test procedures approved under 40 CFR Part 136, unless other test procedures have been specified in this permit or approved by the Regional Administrator. | SMAs | Y | Review of monitoring results |
| | | 5. MONITORING PROCEDURES. b. The permittee shall calibrate and perform maintenance procedures on all monitoring and analytical instruments at intervals frequent enough to insure accuracy of measurements and shall maintain appropriate records of such activities. | SMAs | Y | Review of monitoring results |

| Permit Section | Section Title | Permit Requirement | Applicable Areas | Compliance Status (Y/N) | Method of Compliance |
|---|---|---|---|---|---|
| | | 5. MONITORING PROCEDURES. c. An adequate analytical quality control program, including the analyses of sufficient standards, spikes, and duplicate samples to insure the accuracy of all required analytical results shall be maintained by the permittee or designated commercial laboratory. | SMAs | Y | Review of analytical results and data QC protocols |
| | | 6. FLOW MEASUREMENTS. Appropriate flow measurement devices and methods consistent with accepted scientific practices shall be selected and used to ensure the accuracy and reliability of measurements of the volume of monitored discharges. The devices shall be installed, calibrated, and maintained to insure that the accuracy of the measurements is consistent with the accepted capability of that type of device. Devices selected shall be capable of measuring flows with a maximum deviation of less than 10% from true discharge rates throughout the range of expected discharge volumes. | SMAs | NA | Review of monitoring results |
| Part III.D. | REPORTING REQUIREMENTS | 1. PLANNED CHANGES. a. **INDUSTRIAL PERMITS**. The permittee shall give notice to the Director as soon as possible of any planned physical alterations or additions to the permitted facility. Notice is required only when: (1) The alteration or addition to a permitted facility may meet one of the criteria for determining whether a facility is a new source in 40 CFR Part 122.29(b); or, (2) The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are subject neither to effluent limitations in the permit, nor to notification requirements listed at Part III.D.10.a. | All | NA | Review of records |
| | | 2. ANTICIPATED NONCOMPLIANCE. The permittee shall give advance notice to the Director of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements. | All | Y | Review of records |
| | | 3. TRANSFERS. This permit is not transferable to any person except after notice to the Director. The Director may require modification or revocation and reissuance of the permit to change the name of the permittee and incorporate such other requirements as may be necessary under the Act. | All | Y | NA |
| | | 4. DISCHARGE MONITORING REPORTS AND OTHER REPORTS. Monitoring results must be reported to EPA on either the electronic or paper Discharge Monitoring Report (DMR) approved formats. Duplicate copies of paper DMR's and all other reports shall be submitted to the regional EPA office and the NMED. | SMAs | Y | Review of compliance status and annual reports |

| Permit Section | Section Title | Permit Requirement | Applicable Areas | Compliance Status (Y/N) | Method of Compliance |
|---|---|---|---|---|---|
| | | 5. ADDITIONAL MONITORING BY THE PERMITTEE. If the permittee monitors any pollutant more frequently than required by this permit, using test procedures approved under 40 CFR Part 136 or as specified in this permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the Discharge Monitoring Report (DMR). Such increased monitoring frequency shall also be indicated on the DMR. | Sampling locations | Y | Review of monitoring results |
| | | 6. AVERAGING OF MEASUREMENTS. Calculations for all limitations which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified by the Director in the permit. | Sampling locations | Y | Review of monitoring results |
| | | 7. TWENTY-FOUR HOUR REPORTING. a. The permittee shall report any noncompliance which may endanger health or the environment. Any information shall be provided orally within 24 hours from the time the permittee becomes aware of the circumstances. A written submission shall be provided within 5 days of the time the permittee becomes aware of the circumstances. The report shall contain the following information: (1) A description of the noncompliance and its cause; (2) The period of noncompliance including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and, (3) Steps being taken to reduce, eliminate, and prevent recurrence of the noncomplying discharge.<br>b. The following shall be included as information which must be reported within 24 hours: (1) Any unanticipated bypass which exceeds any effluent limitation in the permit; (2) Any upset which exceeds any effluent limitation in the permit; and, (3) Violation of a maximum daily discharge limitation for any of the pollutants listed by the Director in Part II (industrial permits only) of the permit to be reported within 24 hours.<br>c. The Director may waive the written report on a case-by-case basis if the oral report has been received within 24 hours. | SMAs | Y | Review of records |
| | | 8. OTHER NONCOMPLIANCE. The permittee shall report all instances of noncompliance not reported under Parts III.D.4 and D.7 and Part I.B (for **industrial** permits only) at the time monitoring reports are submitted. The reports shall contain the information listed at Part III.D.7. | All | Y | Review of records |
| | | 9. OTHER INFORMATION. Where the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the Director, it shall promptly submit such facts or information. | All | Y | Review of records |

| Permit Section | Section Title | Permit Requirement | Applicable Areas | Compliance Status (Y/N) | Method of Compliance |
|---|---|---|---|---|---|
| | | 10. CHANGES IN DISCHARGES OF TOXIC SUBSTANCES. All existing manufacturing, commercial, mining, and silvacultural permittees shall notify the Director as soon as it knows or has reason to believe:<br>a. That any activity has occurred or will occur which would result in the discharge, on a routine or frequent basis, of any toxic pollutant listed at 40 CFR Part 122, Appendix D, Tables II and III (excluding Total Phenols) which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels"<br>b. That any activity has occurred or will occur which would result in any discharge, on a nonroutine or infrequent basis, of a toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels" | All | Y | Review of records |
| | | 11. SIGNATORY REQUIREMENTS. All applications, reports, or information submitted to the Director shall be signed and certified. a. ALL PERMIT APPLICATIONS shall be signed as follows: (3) FOR A MUNICIPALITY, STATE, FEDERAL, OR OTHER PUBLIC AGENCY - by either a principal executive officer or ranking elected official. For purposes of this section, a principal executive officer of a Federal agency includes: (a) The chief executive officer of the agency, or (b) A senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency.b. ALL REPORTS required by the permit and other information requested by the Director shall be signed by a person described above or by a duly authorized representative of that person. A person is a duly authorized representative only if: (1) The authorization is made in writing by a person described above; (2) The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity, such as the position of plant manager, operator of a well or a well field, superintendent, or position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company. A duly authorized representative may thus be either a named individual or an individual occupying a named position; and, (3) The written authorization is submitted to the Director.c. CERTIFICATION. Any person signing a document under this section shall make the following certification: "I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am | Submittals | Y | Review of submittals |

| Permit Section | Section Title | Permit Requirement | Applicable Areas | Compliance Status (Y/N) | Method of Compliance |
|---|---|---|---|---|---|
| | | aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations." | | | |
| | | 12. AVAILABILITY OF REPORTS. Except for applications, effluent data permits, and other data specified in 40 CFR 122.7, any information submitted pursuant to this permit may be claimed as confidential by the submitter. If no claim is made at the time of submission, information may be made available to the public without further notice. | Submittals | Y | NA |
| Part III.E. | PENALTIES FOR VIOLATIONS OF PERMIT CONDITIONS | 1. CRIMINAL. a. NEGLIGENT VIOLATIONS. The Act provides that any person who negligently violates permit conditions implementing Section 301, 302, 306, 307, 308, 318, or 405 of the Act is subject to a fine of not less than $2,500 nor more than $25,000 per day of violation, or by imprisonment for not more than 1 year, or both.<br>b. KNOWING VIOLATIONS. The Act provides that any person who knowingly violates permit conditions implementing Sections 301, 302, 306, 307, 308, 318, or 405 of the Act is subject to a fine of not less than $5,000 nor more than $50,000 per day of violation, or by imprisonment for not more than 3 years, or both.<br>c. KNOWING ENDANGERMENT. The Act provides that any person who knowingly violates permit conditions implementing Sections 301, 302, 303, 306, 307, 308, 318, or 405 of the Act and who knows at that time that he is placing another person in imminent danger of death or serious bodily injury is subject to a fine of not more than $250,000, or by imprisonment for not more than 15 years, or both.<br>d. FALSE STATEMENTS. The Act provides that any person who knowingly makes any false material statement, representation, or certification in any application, record, report, plan, or other document filed or required to be maintained under the Act or who knowingly falsifies, tampers with, or renders inaccurate, any monitoring device or method required to be maintained under the Act, shall upon conviction, be punished by a fine of not more than $10,000, or by imprisonment for not more than 2 years, or by both. If a conviction of a person is for a violation committed after a first conviction of such person under this paragraph, punishment shall be by a fine of not more than $20,000 per day of violation, or by imprisonment of not more than 4 years, or by both. (See Section 309.c.4 of the Clean Water Act). | All | Y | Review of records for violations |
| | | 2. CIVIL PENALTIES. The Act provides that any person who violates a permit condition implementing Sections 301, 302, 306, 307, 308, 318, or 405 of the Act is subject to a civil penalty not to exceed $27,500 per day for each violation. | All | Y | Review of records for violations |

| Permit Section | Section Title | Permit Requirement | Applicable Areas | Compliance Status (Y/N) | Method of Compliance |
|---|---|---|---|---|---|
| | | 3. ADMINISTRATIVE PENALTIES. The Act provides that any person who violates a permit condition implementing Sections 301, 302, 306, 307, 308, 318, or 405 of the Act is subject to an administrative penalty, as follows: a. CLASS I PENALTY. Not to exceed $11,000 per violation nor shall the maximum amount exceed $27,500. b. CLASS II PENALTY. Not to exceed $11,000 per day for each day during which the violation continues nor shall the maximum amount exceed $137,500. | All | Y | Review of records for violations |

## A.2 Observation Forms

The Review Team made the following observations during the review of LANL's Stormwater Individual Permit and the associated site monitoring areas (SMAs).

# SEP – Second Triennial Review Observation Form

*PRE-DECISIONAL*

**Observation No.:** IP-001 **Category:** Erosion control

**Observation Title:** Lack of Control Measures

**Observation Type:** II - Potential Environmental Regulatory Violation

**Date:** 6/21/2021

**Technical Area:** TA-03 **Location:** 2M-SMA-1

**Operational Entity:** N3B

**Reference:** Individual Permit, Part I, A.1, Erosion and Sedimentation Controls.

**Requirement:**

The Permittees must minimize discharges of pollutants caused by onsite erosion and sedimentation. The Permittees must implement structural and non-structural, vegetative, and/or stabilization control measures as necessary to achieve this requirement.

Sediment in runoff must be minimized / mitigated.

**Notes:**

Erosion and sedimentation over SWMU. Also, loose, exposed soil from construction activities (not related to SMA / Individual Permit [IP]) is located adjacent to drainageway.

The Review Team discovered gaps in communications. Triad provided EXID 20X-0623 to N3B in October 2020, providing notice of a planned gas line replacement at this SWMU, and an email from excavation@lanl.gov, sent on December 16, 2020, provided notice that the excavation work would commence the following day (Dec. 17, 2020). Triad sent EXID 21X-0126 to N3B in February 2021 for additional work at the site. N3B acknowledged receipt of both. Despite monthly interface meetings with N3B, Triad, EM-LA, and NA-LA, the Review Team found no documentation of follow-on actions related to the potential IP impacts identified in the EXIDs.

**Recommendation:**

Coordinate with Triad's NPDES Construction General Permit (CGP) contact to resolve.

Recommend a formalized and preferably automated process for Triad to notify N3B anytime activities occur in the IP areas and generate an agenda item for the monthly interface meetings.

**Response:**

N3B provided recent site visit write-up with photographs and weekly construction inspections for weeks ending 7/9, 7/16, and 7/23 (COMP-86905, COMP-87077, and COMP-87210). Mitigations occurred during construction to minimize sediments in runoff.

Triad also provided the construction SWPPP map and the NPDES Construction General Permit Stormwater Site Inspection Report dated 6/28/2021 associated with a precipitation event. Triad identified the need for routine maintenance and additional controls to mitigate for erosion.

**Status:** Closed **Reviewer:** Adam Czaplinski

# SEP – Second Triennial Review Observation Form

*PRE-DECISIONAL*

**Observation No.:** IP-002 **Category:** Release/Spill

**Observation Title:** Oil Spill

**Observation Type:** I - Operational Deficiency (not following LANL procedure)

**Date:** 6/22/2021

**Technical Area:** TA-60 **Location:** S-SMA-3.6

**Operational Entity:** N3B

**Reference:** Individual Permit

**Requirement:**

Oil is not allowed in runoff.

**Notes:**

Puddle of oil located under dump truck in drainage area.

**Recommendation:**

Clean up oil spill.

**Response:**

A drain intercepts runoff from the area of the spill and routes runoff to an oil/water separator, thereby eliminating the potential for an unauthorized discharge. The drain did have a clog in it, but this was entered into MainConn for maintenance. This maintenance is routine and is completed several times a year, so this observation has been removed.

**Status:** Removed **Reviewer:** Adam Czaplinski

# SEP – Second Triennial Review Observation Form

*PRE-DECISIONAL*

**Observation No.:** IP-003 **Category:** Recordkeeping

**Observation Title:** Outdated Map

**Observation Type:** I - Operational Deficiency (not following LANL procedure)

**Date:** 6/22/2021

**Technical Area:** TA-03 **Location:** S-SMA-1.1

**Operational Entity:** N3B

**Reference:** Individual Permit, Part I, Section D.2

**Requirement:**

Maps must accurately depict drainage areas.

**Notes:**

Map does not include new electrical substation or expanded northern drainage boundary.

**Recommendation:**

Update map.

**Response:**

Received copy of work order CCN-86829. Map of S-SMA-1.1 was revised (Revision 15) and is available on the IP public website.

**Status:** Closed **Reviewer:** Adam Czaplinski

# SEP – Second Triennial Review Observation Form

*PRE-DECISIONAL*

**Observation No.:** IP-004 **Category:** Recordkeeping

**Observation Title:** Outdated Map

**Observation Type:** I - Operational Deficiency (not following LANL procedure)

**Date:** 6/22/2021

**Technical Area:** TA-48 **Location:** M-SMA-3.5

**Operational Entity:** N3B

**Reference:** Individual Permit, Part I, Section D.2

**Requirement:**

Maps must accurately depict drainage areas.

**Notes:**

Map does not include expanded western boundary (to include diesel generator).

**Recommendation:**

Update map.

**Response:**

N3B received notification from Triad of additional construction work in area. Received weekly construction inspection for week ending 7/16 (COMP-87130) which indicated dirt disturbance had not begun. Construction inspections will continue to monitor the area, and the drainage evaluation will be processed at the completion of construction in area per N3B-SOP-ER-5002 RCI, *Remediation Construction Compliance Inspection*.

**Status:** Closed **Reviewer:** Adam Czaplinski

# SEP – Second Triennial Review Observation Form

*PRE-DECISIONAL*

**Observation No.:** IP-005 **Category:** Best Management Practice

**Observation Title:** Outdated Map

**Observation Type:** Efficiency / Improvement Recommendation

**Date:** 6/22/2021

**Technical Area:** TA-60 **Location:** S-SMA-3.6

**Operational Entity:** N3B

**Reference:** Individual Permit, Part I, Section D.2

**Requirement:**

Maps must accurately depict control measures.

**Notes:**

Map does not include areas of rip rap below the shop area. Upon further review, this rip rap is a non-IP control. It is not an IP responsibility and is therefore not inlcuded on the map.

**Recommendation:**

NA

**Response:**

**Status:** Removed **Reviewer:** Adam Czaplinski

# SEP – Second Triennial Review Observation Form

*PRE-DECISIONAL*

**Observation No.:** IP-006 **Category:** Erosion control

**Observation Title:** Minor Erosion

**Observation Type:** II - Potential Environmental Regulatory Violation

**Date:** 6/23/2021

**Technical Area:** TA-16 **Location:** W-SMA-1.5

**Operational Entity:** N3B

**Reference:** Individual Permit

**Requirement:**

Sediment in runoff must be minimized / mitigated.

**Notes:**

Gravel pad supporting transportainers is eroding, depositing sediment into drainageway.

**Recommendation:**

Repair gravel pad, install control measures, clean out drainageway.

**Response:**

Ongoing email communications between Triad and N3B are occurring as part of Interface Office coordination. Received weekly construction inspections for weeks ending 6/18, 6/25, 7/2, 7/9, 7/16, and 7/23 (COMP-86298, COMP-86394, COMP-86633, COMP-86907, COMP-87079, COMP-87213). Each inspection assessed impact to control measures and identified need for additional mitigation.

**Status:** Closed **Reviewer:** Adam Czaplinski

# SEP – Second Triennial Review Observation Form

*PRE-DECISIONAL*

**Observation No.:** IP-007 **Category:** Monitoring/ Testing

**Observation Title:** Impeded Drainageway

**Observation Type:** I - Operational Deficiency (not following LANL procedure)

**Date:** 6/23/2021

**Technical Area:** TA-53 **Location:** S-SMA-3.71

**Operational Entity:** N3B

**Reference:** Individual Permit, Part I, section D.3

**Requirement:**

Sampling is required for SMA.

**Notes:**

A small berm of gravel, dirt, and asphalt from snowplowing operations is blocking the upstream side of a small drainage area, severely limiting stormwater flow through the drainageway.

**Recommendation:**

Remove the berm.

**Response:**

Received Work Order BMP-86831. Maintenance conducted on 7/6, debris berm removed and drainage reviewed.

**Status:** Closed **Reviewer:** Adam Czaplinski

# SEP – Second Triennial Review Observation Form

*PRE-DECISIONAL*

**Observation No.:** IP-008 **Category:** Recordkeeping

**Observation Title:** Lack of 24-Hour Notification Records

**Observation Type:** Efficiency / Improvement Recommendation

**Date:** 6/23/2021

**Technical Area:** Universal **Location:** Facility-wide

**Operational Entity:** N3B

**Reference:** Individual Permit, Part II, Section B

**Requirement:**

Exceedances of maximum target levels for any applicable pollutants shall be reported orally to EPA Region 6, Compliance and Assurance Division, Water Enforcement Branch (6EN-W), Dallas, Texas, and NMED, Surface Water Quality Bureau, Santa Fe, New Mexico, within 24 hours from the time the permittee becomes aware of the exceedance.

**Notes:**

24-hour notification records are not maintained.

**Recommendation:**

Provide written protocols for new procedure.

**Response:**

N3B provided their Administrative Procedure for N3B Regulatory Documentation's Correspondence Control as well as copies of 24-hour oral notification records sent to EPA. The recent 24-hour notification records have been placed in the Reports section of the IP public website.

**Status:** Closed **Reviewer:** Adam Czaplinski

# SEP – Second Triennial Review Observation Form

*PRE-DECISIONAL*

**Observation No.:** IP-009 **Category:** Recordkeeping

**Observation Title:** Complete Inspections Not on Public Webpage

**Observation Type:** II - Potential Environmental Regulatory Violation

**Date:** 6/23/2021

**Technical Area:** Universal **Location:** Facility-wide

**Operational Entity:** N3B

**Reference:** Individual Permit, Part I, Section I.7(a)

**Requirement:**

Within six months after the effective date of the Permit, the Permittees shall establish a public website where information on the Permit, including the SDPPP, Annual Reports, Inspection Reports, DMRs, transmittal correspondence between Permittees and EPA, and other relevant data and documents, will be made available. Confidential Business Information (CBI) may not be withheld from regulatory agencies but may be withheld from the public.

**Notes:**

Complete inspection records are not maintained on the IP public website.

**Recommendation:**

Maintain complete non-CBI inspection records on the IP public website to suppplement the summary reports.

**Response:**

Status reports by watershed are made available on the IP public website. They include summaries of the inspections and maintenance that occurred during the report period.

**Status:** Open **Reviewer:** Adam Czaplinski

# SEP – Second Triennial Review Observation Form

*PRE-DECISIONAL*

**Observation No.:** IP-010 **Category:** Recordkeeping

**Observation Title:** Outdated Map

**Observation Type:** I - Operational Deficiency (not following LANL procedure)

**Date:** 6/24/2021

**Technical Area:** TA-35 **Location:** T-SMA-2.85

**Operational Entity:** N3B

**Reference:** Individual Permit, Part I Section D.2

**Requirement:**

Maps must accurately depict drainage areas.

**Notes:**

Drainage boundary on map should be reduced to exclude the parking area within its northern boundary.

**Recommendation:**

Update map.

**Response:**

Drainage area modeling was field verified with Work Order CCN-87502. New map created and field verified.

**Status:** Closed **Reviewer:** Adam Czaplinski

# SEP – Second Triennial Review Observation Form

*PRE-DECISIONAL*

**Observation No.:** IP-011 **Category:** Maintenance

**Observation Title:** Rock Check Dam repair and add additional control measure

**Observation Type:** II - Potential Environmental Regulatory Violation

**Date:** 6/25/2021

**Technical Area:** TA-33 **Location:** CHQ-SMA-1.03

**Operational Entity:** N3B

**Reference:** Individual Permit, Part 1, Section B.2

**Requirement:**

The Permittees must maintain all control measures in effective operating condition.

**Notes:**

Lower rock check dam was disturbed/displaced from recent stormwater event and requires repair. Dirt road for monitoring well installation created additional channel flow along road rather than into drainage.

**Recommendation:**

Repair rock check dam. Add control measures to dirt road to prevent runon from road outside of the drainage.

**Response:**

The rock check dam was retired as a control and abandoned in place in 2014 under Work Order CCN-34372. Completed inspection and maintenance assesment under Work Order BMP-87168 to address potential need for run-on controls in the area of the access road. Maintenance scheduled under Work Order BMP-87675.

**Status:** Closed **Reviewer:** Georgia Vondra

# SEP – Second Triennial Review Observation Form

*PRE-DECISIONAL*

**Observation No.:** IP-012 **Category:** Maintenance

**Observation Title:** Asphalt berm repair

**Observation Type:** II - Potential Environmental Regulatory Violation

**Date:** 6/25/2021

**Technical Area:** TA-33 **Location:** CHQ-SMA-2

**Operational Entity:** N3B

**Reference:** Individual Permit, Part 1, Section B.2

**Requirement:**

The Permittees must maintain all control measures in effective operating condition.

**Notes:**

Asphalt berm appears to have been damaged in the process of paving a road and parking area and is no longer functioning as designed.

**Recommendation:**

Repair berm.

**Response:**

Field inspections of the asphalt berm indicated that it is still functioning as intended to prevent run-on onto the Solid Waste Management Unit. Field personnel do not believe the berm needs maintenance at this time and will continue to monitor it.

**Status:** Closed **Reviewer:** Georgia Vondra

# SEP – Second Triennial Review Observation Form

*PRE-DECISIONAL*

**Observation No.:** IP-013 **Category:** Procedures

**Observation Title:** Notification response

**Observation Type:** Efficiency / Improvement Recommendation

**Date:** 6/21/2021

**Technical Area:** TA-03 **Location:** 2M-SMA-1

**Operational Entity:**

**Reference:**

**Requirement:**

**Notes:**

N3B response to notifications (from Triad and County) of impact to SMA lacks a formal process.

**Recommendation:**

Develop process or procedure to respond to notifications of impact to SMA from outside organizations and ensure N3B field personnel are aware of modifications at SMA sites.

**Response:**

Formal processes are in place to notify N3B of potential impacts to SMAs. The process for Triad notifications is via the Triad PR-ID process and monthly interface meetings between Triad and N3B. The process for Los Alamos County notifications is via the Los Alamos County's Community Development Department's Interdepartmental Review Committee (IDRC) meetings and the monthly Utilities, Public Works, and Engineering (UPWE) meetings. Increased frequency of interface meetings and notifications when in proximity of SMA sites may improve efficiencies.

**Status:** Closed **Reviewer:** Tracy Cangelosi

# SEP – Second Triennial Review Observation Form

*PRE-DECISIONAL*

**Observation No.:** IP-014 **Category:** Recordkeeping

**Observation Title:** Outdated Map

**Observation Type:** Efficiency / Improvement Recommendation

**Date:** 6/28/2021

**Technical Area:** TA-46 **Location:** CDB-SMA-1

**Operational Entity:** N3B

**Reference:** Individual Permit, Part 1, Section D.2

**Requirement:**

Maps must accurately depict drainage areas.

**Notes:**

Building footprint should be removed from map. Building was demolished.

**Recommendation:**

Update map.

**Response:**

The demolished building is not within the drainage area, and the change in conditions at the site will not initiate a drainage area evaluation.

**Status:** Removed **Reviewer:** Georgia Vondra

# SEP – Second Triennial Review Observation Form

*PRE-DECISIONAL*

**Observation No.:** IP-015 **Category:** Recordkeeping

**Observation Title:** Outdated Map

**Observation Type:** Efficiency / Improvement Recommendation

**Date:** 6/28/2021

**Technical Area:** TA-46 **Location:** CDB-SMA-0.25

**Operational Entity:** N3B

**Reference:** Individual Permit, Part 1, Section D.2

**Requirement:**

Maps must accurately depict drainage areas.

**Notes:**

Building footprint should be removed from map. Building was demolished.

**Recommendation:**

Update map.

**Response:**

Received Work Order CNN-87252. Drafted map revision that removed the demolished building. Drainage evaluation and field verification are completed. A new map has been posted on the IP public website.

**Status:** Closed **Reviewer:** Georgia Vondra

# SEP – Second Triennial Review Observation Form

*PRE-DECISIONAL*

**Observation No.:** IP-016 **Category:** Recordkeeping

**Observation Title:** Outdated Map

**Observation Type:** Efficiency / Improvement Recommendation

**Date:** 6/28/2021

**Technical Area:** TA-46 **Location:** CDB-SMA-0.55

**Operational Entity:** N3B

**Reference:** Individual Permit, Part 1, Section D.2

**Requirement:**

Maps must accurately depict drainage areas.

**Notes:**

Building footprint should be removed from map. Building was demolished. Add sediment basin control feature to map.

**Recommendation:**

Update map.

**Response:**

N3B provided Work Order CCN-87253. Revised map removed the building footprint. Its posting to the IP public website is completed.

**Status:** Closed **Reviewer:** Georgia Vondra

# SEP – Second Triennial Review Observation Form

*PRE-DECISIONAL*

**Observation No.:** IP-017 **Category:** Recordkeeping

**Observation Title:** Outdated Map

**Observation Type:** Efficiency / Improvement Recommendation

**Date:** 6/28/2021

**Technical Area:** TA-03 **Location:** LA-SMA-0.85

**Operational Entity:** N3B

**Reference:** Individual Permit, Part 1, Section D.2

**Requirement:**

Maps must accurately depict drainage areas.

**Notes:**

Gabion and Rock Check Dam locations are reversed.

**Recommendation:**

Update map.

**Response:**

Maintenance activities to fill erosion and enhance curb completed under Work Order BMP-86343. Active control locations have been mapped using Global Positioning System (GPS), and map is accurate.

**Status:** Closed **Reviewer:** Georgia Vondra

# SEP – Second Triennial Review Observation Form

*PRE-DECISIONAL*

**Observation No.:** IP-018 **Category:** Recordkeeping

**Observation Title:** Outdated Map

**Observation Type:** Efficiency / Improvement Recommendation

**Date:** 6/28/2021

**Technical Area:** Townsite **Location:** LA-SMA-5.362

**Operational Entity:** N3B

**Reference:** Individual Permit, Part 1, Section D.2

**Requirement:**

Maps must accurately depict drainage areas.

**Notes:**

Check scale of map to see if it accurately depicts sampler location.

**Recommendation:**

Update map.

**Response:**

The map scale is correct, as it is scaled to the primary map and not the inset map. The SMA is an extremely small area (approximately 825 square feet), and the primary map is zoomed-in to show all aspects of the SMA clearly, including the Sample Implementation Process (SIP) approved sampling location. The inset map is zoomed-out to show the SMA's relative location to the receiving watershed (Los Alamos Canyon watershed).

The sampler location was decided upon during the 2016-2018 SIP and has been agreed upon between NMED and Permittees. Supporting map documentation with signatures was provided.

**Status:** Removed **Reviewer:** Georgia Vondra

# SEP – Second Triennial Review Observation Form

*PRE-DECISIONAL*

**Observation No.:** IP-019 **Category:** Maintenance

**Observation Title:** Repair

**Observation Type:** II - Potential Environmental Regulatory Violation

**Date:** 6/28/2021

**Technical Area:** TA-43 **Location:** LA-SMA-1

**Operational Entity:** N3B

**Reference:** Individual Permit, Part 1, Section B.2

**Requirement:**

Permittees must maintain all control measures in effective operating condition.

**Notes:**

Remove rocks that are blocking culvert. Add control measure to prevent runoff onto road.

**Recommendation:**

Add control measure and remove blockage from culvert.

**Response:**

Maintenance was conducted on culvert and channel/swale under Work Order BMP-86338. Follow-up site visit performed after 7/25 rain (Work Order BMP-87254), and no run-off was crossing the road. No further action required.

**Status:** Closed **Reviewer:** Georgia Vondra

# SEP – Second Triennial Review Observation Form

*PRE-DECISIONAL*

**Observation No.:** IP-020 **Category:** Maintenance

**Observation Title:** Repair

**Observation Type:** II - Potential Environmental Regulatory Violation

**Date:** 6/28/2021

**Technical Area:** TA-41 **Location:** LA-SMA-5.01

**Operational Entity:** N3B

**Reference:** Individual Permit, Part 1, Section B.2

**Requirement:**

Permittees must maintain all control measures in effective operating condition.

**Notes:**

Replace or retire straw wattle.

**Recommendation:**

Replace straw wattle.

**Response:**

Straw wattle retired. Map updated as Revision 15 under Work Order CCN-87154. Map is posted on the IP public website.

**Status:** Closed **Reviewer:** Georgia Vondra

# SEP – Second Triennial Review Observation Form

*PRE-DECISIONAL*

**Observation No.:** IP-021 **Category:** Maintenance

**Observation Title:** Repair

**Observation Type:** II - Potential Environmental Regulatory Violation

**Date:** 6/28/2021

**Technical Area:** TA-43 **Location:** LA-SMA-3.9

**Operational Entity:** N3B

**Reference:** Individual Permit, Part 1, Section B.2

**Requirement:**

Permittees must maintain all control measures in effective operating condition.

**Notes:**

Log check dam needs to be repaired.

**Recommendation:**

Rebuild and repair log check dam.

**Response:**

N3B conducted site visit under Work Order BMP-87147. The control is slowing flows, and no maintenance is necessary.

**Status:** Closed **Reviewer:** Georgia Vondra

# SEP – Second Triennial Review Observation Form

*PRE-DECISIONAL*

**Observation No.:** IP-022 **Category:** Maintenance

**Observation Title:** Sampler Location

**Observation Type:** II - Potential Environmental Regulatory Violation

**Date:** 6/28/2021

**Technical Area:** TA-46 **Location:** CDB-SMA-1.55

**Operational Entity:** N3B

**Reference:** Individual Permit, Part 1, Section B.2

**Requirement:**

Permittees must maintain all control measures in effective operating condition.

**Notes:**

Sampler appears to be placed in the wrong location within the drainage. Evaluate whether to move it farther downslope.

**Recommendation:**

Relocate sampler.

**Response:**

The drainage area on the map matches what has been observed and verified in the field. The existing drainage area was modeled using N3B procedure N3B-SOP-ER-5006, *Determining and Evaluating Drainage Area Boundaries*, and processed in "Tools" under N3B-DI-ER-4008. N3B-SOP-ER-5006 includes geographic information system (GIS) modeling based on specific pour point (e.g., sampler location), contributions (e.g., run-on from parking areas, roof drains, culverts), and landscape characteristics, and is field-verified by field personnel.

The sampler location was decided upon during the 2016-2018 SIP and has been agreed upon between NMED and Permittees. N3B provided supporting map documentation with signatures.

**Status:** Closed **Reviewer:** Georgia Vondra

# SEP – Second Triennial Review Observation Form

*PRE-DECISIONAL*

**Observation No.:** IP-023 **Category:** Maintenance

**Observation Title:** Repair

**Observation Type:** II - Potential Environmental Regulatory Violation

**Date:** 6/28/2021

**Technical Area:** TA-46 **Location:** CDB-SMA-1.65

**Operational Entity:** N3B

**Reference:** Individual Permit, Part 1, Section B.2

**Requirement:**

Permittees must maintain all control measures in effective operating condition.

**Notes:**

Re-evaluate control measure placement and move sampler to an appropriate location in the drainage.

**Recommendation:**

Re-evaluate control and relocate sampler.

**Response:**

The drainage area on the map matches what has been observed and verified in the field. The existing drainage area was modeled using N3B procedure N3B-SOP-ER-5006, Determining and Evaluating Drainage Area Boundaries, and processed in "Tools" under N3B-DI-ER-4008. N3B-SOP-ER-5006 includes GIS modeling based on specific pour point (e.g., sampler location), contributions (e.g., run-on from parking areas, roof drains, culverts), and landscape characteristics, and is field-verified by field personnel.

The sampler location was decided upon during the 2016-2018 SIP and has been agreed upon between NMED and Permittees.

**Status:** Closed **Reviewer:** Georgia Vondra

# SEP – Second Triennial Review Observation Form

*PRE-DECISIONAL*

**Observation No.:** IP-024 **Category:** Maintenance

**Observation Title:** Repair and Maintain

**Observation Type:** II - Potential Environmental Regulatory Violation

**Date:** 6/28/2021

**Technical Area:** TA-73 **Location:** P-SMA-2

**Operational Entity:** N3B

**Reference:** Individual Permit, Part 1, Section B.2

**Requirement:**

Permittees must maintain all control measures in effective operating condition.

**Notes:**

Rebuild and repair rip rap.

**Recommendation:**

Repair rip rap.

**Response:**

Maintenance inspection of rip rap completed under Work Order BMP-87105.

**Status:** Closed **Reviewer:** Georgia Vondra

# SEP – Second Triennial Review Observation Form

*PRE-DECISIONAL*

**Observation No.:** IP-025 **Category:** Maintenance

**Observation Title:** Outdated Map and Repair

**Observation Type:** II - Potential Environmental Regulatory Violation

**Date:** 6/30/2021

**Technical Area:** TA-5 **Location:** M-SMA-13

**Operational Entity:** N3B

**Reference:** Individual Permit, Part 1, Sections D.2 and B.2

**Requirement:**

Maps must accurately depict drainages. Permittees must maintain all control measures in effective operating condition.

**Notes:**

Update map with new well pad for well building, which removed the rock check dam. Rebuild last two log check dams.

**Recommendation:**

Update map and rebuild log check dams.

**Response:**

Drainage area modeling is ongoing. Field verification was completed under Work Order CCN-87512 and control maintenance under BMP-87054. Revised map was posted to the IP public website.

**Status:** Closed **Reviewer:** Georgia Vondra

# SEP – Second Triennial Review Observation Form

*PRE-DECISIONAL*

**Observation No.:** IP-026 **Category:** Best Management Practice

**Observation Title:** Telemetry

**Observation Type:** Positive Practice

**Date:** 7/1/2021

**Technical Area:** Universal **Location:** Facility-wide

**Operational Entity:** N3B

**Reference:**

**Requirement:**

**Notes:**

Telemetry equipment is being used at select sampler locations to expedite and streamline the process of sample collection. N3B plans to continue and expand the program.

**Recommendation:**

Expand and continue the program.

**Response:** NA

**Status:** Not Applicable for In Compliance & Positive **Reviewer:** Georgia Vondra

# SEP – Second Triennial Review Observation Form

*PRE-DECISIONAL*

**Observation No.:** IP-027 **Category:** Best Management Practice

**Observation Title:** EIMS, MainConn, and Hystra software databases

**Observation Type:** Positive Practice

**Date:** 7/1/2021

**Technical Area:** Universal **Location:** Facility-wide

**Operational Entity:** N3B

**Reference:**

**Requirement:**

NA

**Notes:**

N3B is using the EIMS, MainConn, and Hystra software databases to track precipitation and maintenance, store analytical data, and generate reporting. N3B plans to continue using these systems.

**Recommendation:**

Continue using these systems.

**Response:** NA

**Status:** Not Applicable for In Compliance & Positive **Reviewer:** Tracy Cangelosi

## A.3 NPDES IP Checklist References

EPA (2010). [Individual Permit] Authorization to Discharge [from Solid Waste Management Units and Areas of Concern] Under the National Pollutant Discharge Elimination System, NM0030759, EPA, November 1, 2010

GEL Laboratories, LLC (2018). *Los Alamos National Laboratory Stormwater IP Analytical Data Package*. 2018. Charleston, SC.

GEL Laboratories, LLC (2019). *Los Alamos National Laboratory Stormwater IP Analytical Data Package. 2019. Charleston, SC.*

GEL Laboratories, LLC (2020). *Los Alamos National Laboratory Stormwater IP Analytical Data Package. 2020. Charleston, SC.*

LANL (2021). Electronic Public Reading Room. http://eprr.lanl.gov/

LANS (2013). *Alternative Compliance Request for S-SMA-0.25.* LA-UR-13-22842. April 2013. Los Alamos, NM.

LANS (2014a). *Alternative Compliance Request for M-SMA-7.9*. LA-UR-14-22489. April 2014. Los Alamos, NM.

LANS (2014b). *Notice of Public Comment on the Alternative Compliance Request for M-SMA-7.9 under NPDESs EPA Permit No. NM0030759*. LA-UR-14-22894. May 1, 2014. Los Alamos, NM.

LANS (2015a). *Alternative Compliance Request for 19 Site Monitoring Area/Site Combinations Exceeding Target Action Levels for Gross-Alpha Radioactivity*. LA-UR-15-22211. May 2015. Los Alamos, NM.

LANS (2015b). *Alternative Compliance Request for 52 Site Monitoring Area/Site Combinations Exceeding Target Action Levels from Nonpoint Sources*. LA-UR-15-22213. May 2015. Los Alamos, NM.

LANS (2015c). NPDES Permit No. NM0030759 - Request for Permit Modification, Removal of Sites. LA-UR-15-27297 and 27298. October 21, 2015. Los Alamos, NM.

LANS (2016a). *NPDES Permit No. NM0030759 - Alternative Compliance Request for 17 Site. Monitoring Area/Site Combinations Exceeding Target Action Levels from Nonpoint Sources.* LA-UR 16-20864. February 26, 2016. Los Alamos, NM.

LANS (2016b). *NPDES Permit No. NM0030759 - Update on Certificate of Completion for Site 01-002(b)-00 Monitored within ACID-SMA-2 and ACID-SMA-2.1*. June 6, 2016. Los Alamos, NM.

N3B (2018). 2018 Precipitation Data. Los Alamos, NM. Received via email July 22, 2021.

N3B (2019a). Storm Water Individual Permit *Annual Report. Reporting Period January 1-December 31, 2018. NPDES Permit No. NM0030759*. March 2019. Los Alamos, NM.

N3B (2019b). *NPDES Permit No. NM0030759 - Alternative Compliance Requests for Seven Site Monitoring Area/Site Combinations Exceeding Target Action Levels from Nonpoint Sources.* N3B-19-0108. April 22, 2019. Los Alamos, NM.

N3B (2019c). 2018 *Update to the Site Discharge Pollution Prevention Plan, Revision 1, NPDES Permit No. NM0030759*. EMID-700408. May 1, 2019. Los Alamos, NM.

N3B (2019d). *IP NM0030759 Renewal Application Package*. July 2019. Los Alamos, NM.

N3B (2019e). 2019 Precipitation Data. Los Alamos, NM. Received via email July 22, 2021.

N3B (2020a). *NPDES Permit No. NM0030759* – Storm Water Individual Permit *Annual Report. Reporting Period January 1-December 31, 2019*. N3B-20-0033. February 20, 2020. Los Alamos, NM.

N3B (2020b). *Update to the Site Discharge Pollution Prevention Plan, Revision 1, NM0030759*. Los Alamos, NM.

N3B (2020c). *2019 Update to the Site Discharge Pollution Prevention Plan, Revision 1, NPDES Permit No. NM0030759*. EMID-700829. May 1, 2020. Los Alamos, NM.

N3B (2020d). *IP Training Roster*. Los Alamos, NM. Received via email June 30, 2021.

N3B (2020e). *NPDES Permit No. NM0030759 – Alternative Compliance Requests for Six Site Monitoring Area/Site Combinations Exceeding Target Action Levels from Nonpoint Sources.* N3B-2020-0287. October 27, 2020. Los Alamos, NM.

N3B (2020f). 2020 Precipitation Data. Los Alamos, NM. Received via email July 22, 2021.

N3B (2021a). *NPDES Permit No. NM0030759 – Storm Water Individual Permit Annual Report. Reporting Period January 1-December 31, 2020.* N3B-2021-0036. February 16, 2021. Los Alamos, NM.

N3B (2021b). *2020 Update to the Site Discharge Pollution Prevention Plan, Revision 1, NPDES Permit No. NM0030759*. EMID-701393. May 1, 2021. Los Alamos, NM.

N3B (2021c). *IP Training Log*s. Los Alamos, NM. Received via email June 30, 2021.

N3B (2021d). 2021 Precipitation Data. Los Alamos, NM. Received via email July 22, 2021.

N3B (2021e). Sampling of Construction Inspection and BMP Work Orders. July 2021. Los Alamos, NM.

NMED (2013). *2013 Notifications of Force Majeure*. 2013. Santa Fe, NM.

NMED (2015). *2015 Notifications of Force Majeure*. 2015. Santa Fe, NM.

# Appendix B: NPDES Multi-Sector General Permit

## B.1 Compliance Checklist

The Review Team used the following checklist to assess compliance with the National Pollutant Discharge Elimination System (NPDES) 2021 Multi-Sector General Permit (MSGP).

### B.1.1 SECTION 1 COVERAGE

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| 1 | How to Obtain Coverage Under the 2021 MSGP | To be covered under this permit, you must meet all of the eligibility conditions and follow the requirements for obtaining permit coverage in Part 1. | Y | Permit issued by regulatory authority. | Permit issued by regulatory authority. |
| 1.1 | Eligibility Conditions | | | | |
| 1.1.1 | Location of Your Facility | Your facility must be located in an area where the Environmental Protection Agency (EPA) is the permitting authority and where coverage under this permit is available (see Appendix C); 1 | Y | Permit issued by regulatory authority. | Permit issued by regulatory authority. |
| 1.1.2 | Your Discharges Are Associated with Industrial Activity | Your facility must have an authorized stormwater discharge or an authorized non-stormwater discharge per Part 1.2 associated with industrial activity from your primary industrial activity (as defined in Appendix A and as listed in Appendix D), or you have been notified by EPA that you are eligible for coverage under Sector AD. | Y | Permit issued by regulatory authority. | Permit issued by regulatory authority. |
| 1.1.3 | Limitations on Coverage | Discharges from your facility are not: | | | |
| 1.1.3.1 | Discharges mixed with non-stormwater discharges. | Discharges mixed with non-stormwater discharges other than those mixed with authorized non-stormwater discharges listed in Part 1.2.2, and/or those mixed with a discharge authorized by a different NPDES permit and/or a discharge that does not require NPDES authorization. | Y | Visual inspection of facility | No unauthorized non-stormwater discharges observed. |
| 1.1.3.2 | Stormwater discharges associated with construction activity. | Stormwater discharges associated with construction activity disturbing one acre or more, or that are part of a larger common plan of development or sale if the larger common plan will ultimately disturb one acre or more, unless in conjunction with mining activities or certain oil and gas extraction activities as specified in Sectors G, H, I, and J of this permit. | Y | Visual inspection of facility | No disturbed areas of ground >1 acre. |
| 1.1.3.3 | Discharges already covered by another NPDES permit. | a. Stormwater discharges associated with industrial activity that are currently covered under an individual NPDES permit or an alternative NPDES general permit; | Y | Review of individual permit | |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| | | b. Stormwater discharges covered within five years prior to the effective date of this permit by an individual NPDES permit or alternative NPDES general permit where that permit established site-specific numeric water quality-based effluent limitations developed for the industrial stormwater component of the discharge; or | Y | Review of individual permit | |
| | | c. Discharges from facilities where any NPDES permit has been or is in the process of being denied, terminated, or revoked by EPA (this does not apply to the routine expiration and reissuance of NPDES permits every five years). | Y | Review of records | No denied permits |
| 1.1.3.4 | Stormwater Discharges Subject to Effluent Limitations Guidelines. | Stormwater discharges subject to stormwater effluent limitation guidelines under 40 CFR, Subchapter N, other than those listed in Table 1-1 of this permit. | Y | Review individual permit | No subject discharges |
| 1.1.4 | Eligibility Related to Endangered Species Act (ESA) Listed Species and Critical Habitat Protection. | You are able to demonstrate that your stormwater discharges, authorized non-stormwater discharges, and stormwater discharge-related activities are not likely to adversely affect any species that are federally listed as endangered or threatened ("ESA-listed") and are not likely to adversely affect habitat that is designated as "critical habitat" under ESA, or said discharges and activities were the subject of an ESA Section 7 consultation or an ESA Section 10 permit. You must follow the procedures outlined in the Endangered Species Protection section of the NOI in EPA's NPDES eReporting Tool (NeT-MSGP) and meet one of the criteria listed in Appendix E. You must comply with any measures that formed the basis of your criteria eligibility determination to be in compliance with the MSGP. These measures become permit requirements per Part 2.3. Documentation of these measures must be kept as part of your Stormwater Pollution Prevention Plan (SWPPP) (see Part 6.2.6.1). | Y | Visual inspection of facility and review of records | Endangered species protection plans included in all SWPPPs. Habitat Management Plans reviewed and approved by the U.S. Fish and Wildlife Service (USFWS). |
| 1.1.5 | Eligibility related to National Historic Preservation Act (NHPA)-Protected Properties. | You must follow the procedures outlined in the Historic Properties section of the NOI in NeT-MSGP to demonstrate that your stormwater discharges, authorized non-stormwater discharges, and stormwater discharge-related activities meet one of the eligibility criteria in Appendix F. | Y | Permit issued by regulatory authority. | Eligibility criterion checked against that selected in the Notices of Intent (NOIs). |
| 1.1.6 | Eligibility for "New Dischargers" and "New Sources" (as defined in Appendix A)2 ONLY | | | | |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| 1.1.6.1 | Eligibility for "New Dischargers" and "New Sources" Based on Water Quality Standards. | Your stormwater discharge must be controlled as necessary such that the receiving water of the United States will meet applicable water quality standards. You are ineligible for coverage under this permit if EPA determines prior to your authorization to discharge that your stormwater discharges will not be controlled as necessary such that the receiving water of the United States will not meet an applicable water quality standard. In such case, EPA may notify you that an individual permit application is necessary per Part 1.3.8, or, alternatively, EPA may authorize your coverage under this permit after you implement additional control measures so that your stormwater discharges will be controlled as necessary such that the receiving water of the United States will meet applicable water quality standards. | Y | Visual inspection of facility and review of records | Issuance of permit by EPA |
| 1.1.6.2 | Eligibility for "New Dischargers" and "New Sources" for Water-Quality Impaired Waters. | If you discharge to an "impaired water" (as defined in Appendix A), you must do one of the following: | | | |
| | | a. Prevent all exposure to stormwater of the pollutant(s) for which the waterbody is impaired, and retain documentation of procedures taken to prevent exposure on site with your SWPPP; | Y | Visual inspection of facility and review of SWPPP | Stormwater controls prevent the discharge of groundwater for metals and polychlorinated biphenyls (PCBs) as well as possible. SWPPPs document procedures. |
| | | b. When submitting your NOI in NeT-MSGP, provide the technical information or other documentation to support your claim that the pollutant(s) for which the waterbody is impaired is not present at your facility, and retain such documentation with your SWPPP; or | Y | NOI and SWPPP review | Documented in NOI and SWPPP |
| | | c. When submitting your NOI in NeT-MSGP, provide either data or other technical documentation, to support a conclusion that the stormwater discharge will be controlled as necessary such that the receiving water of the United States will meet applicable water quality standards and retain such information with your SWPPP. The information you submit must demonstrate: | | | |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| | | i. For discharges to waters without an EPA-approved or established total maximum daily load (TMDL), that the discharge of the pollutant for which the water is impaired will be controlled as necessary such that the receiving water of the United States will meet applicable water quality standards at the point of discharge to the waterbody; or | Y | NOI and SWPPP review | Documented in NOI and SWPPP |
| | | ii. For discharges to waters with an applicable EPA-approved or established TMDL, that there are, in accordance with 40 Code of Federal Regulations (CFR) 122.4(i), sufficient remaining waste-load allocations in the TMDL to allow your discharge and that existing dischargers to the waterbody are subject to compliance schedules designed to bring the waterbody into attainment with water quality standards (e.g., a reserve allocation for future growth). | Y | NOI and SWPPP review | No TMDL waters |
| | | You are eligible under Part 1.1.6.2.c if you receive a determination from the applicable EPA Regional Office that your stormwater discharge will be controlled as necessary such that the receiving water of the United States will meet applicable water quality standards and you document the Region's determination in your SWPPP. If the applicable EPA Regional Office fails to respond to you within 30 days after submission of data, you are considered eligible for coverage. | Y | Permit issued by regulatory authority. | Issuance of permit by EPA |
| 1.1.6.3 | Eligibility for "New Dischargers" and "New Sources" for Waters with High Water Quality (Tier 2, 2.5, and 3). | a. For new dischargers and new sources to Tier 2 or Tier 2.5 waters, your discharge must not lower the water quality of the applicable water. See a list of Tier 2 and Tier 2.5 waters in Appendix L. | Y | Check watershed list | No Tier 2 or Tier 2.5 waters |
| | | b. For new dischargers and new sources to waters designed by a state or tribe as Tier 3 waters (i.e., outstanding national resource waters) for antidegradation purposes under 40 CFR 131.13(a)(3), you are not eligible under this permit and you must apply for an individual permit. See a list of Tier 3 waters in Appendix L. | Y | Check watershed list | No Tier 3 waters |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| 1.1.7 | Eligibility for Discharges to a Federal Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Site. | If you discharge to a federal CERCLA Site listed in Appendix P, you must notify the EPA Region 10 Office when submitting your NOI, and the EPA Region 10 Office must determine that you are eligible for permit coverage. In determining eligibility for coverage under this Part, the EPA Region 10 Office may evaluate whether you are implementing or plan to implement adequate controls and/or procedures to ensure that your discharge will not lead to recontamination of aquatic media at the CERCLA Site (i.e., your stormwater discharge will be controlled as necessary such that the receiving water of the United States will meet an applicable water quality standard). If it is determined that your facility discharges to a CERCLA Site listed in Appendix P after you have obtained coverage under this permit, you must contact the EPA Region 10 Office and ensure that you either have implemented or will implement adequate controls and/or procedures to ensure that your discharges will not lead to recontamination of aquatic media at the CERCLA Site such that your stormwater discharge will be controlled as necessary such that the receiving water of the United States will meet an applicable water quality standard. | Y | Check Appendix P | No CERCLA discharges |
| | | For the purposes of this permit, a facility discharges to a federal CERCLA Site if the discharge flows directly into the site through its own conveyance, or through a conveyance owned by others, such as a municipal separate storm sewer system (MS4). | Y | Check Appendix P | No CERCLA discharges |
| 1.2 | Types of Discharges Authorized Under the MSGP | | | | |
| 1.2.1 | Authorized Stormwater Discharges | If you meet all the eligibility criteria in Part 1.1, then the following discharges from your facility are authorized under this permit: | | | |
| 1.2.1.1 | | Stormwater discharges associated with industrial activity for any primary industrial activities and co-located industrial activities (as defined in Appendix A) except for any stormwater discharges prohibited in Part 8; | Y | Review of types of discharges | No activities outside of those listed under the permit. |
| 1.2.1.2 | | Discharges EPA has designated as needing a stormwater permit as provided in Sector AD; | Y | Review of types of discharges | No Sector AD |
| 1.2.1.3 | | Discharges that are not otherwise required to obtain NPDES permit authorization but are mixed with discharges that are authorized under this permit; and | Y | Review of types of discharges | Issuance of permit by EPA |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| 1.2.1.4 | | Stormwater discharges from facilities subject to any of the national stormwater-specific effluent limitations guidelines listed in Table 1-1. | Y | Review of types of discharges | Issuance of permit by EPA |
| 1.2.2 | Authorized Non-Stormwater Discharges. | Below is the list of non-stormwater discharges authorized under this permit. Unless specifically listed in this Part, this permit does not authorize any other non-stormwater discharges requiring NPDES permit coverage and you must either eliminate those discharges or they must be covered under another NPDES permit; this includes the sector-specific non-stormwater discharges that are listed in Part 8 as prohibited (a non-exclusive list is provided only to raise awareness of contaminants or sources of contaminants generally characteristic of certain sectors). | | | |
| 1.2.2.1 | Authorized Non-Stormwater Discharges for All Sectors. | The following are the only non-stormwater discharges authorized under this permit for all sectors provided that all discharges comply with the effluent limits set forth in Parts 2 and 8. | | | |
| | | a. Discharges from emergency/unplanned firefighting activities; | Y | Review of types of discharges | Allowable discharges |
| | | b. Fire hydrant flushings; | Y | Review of types of discharges | Allowable discharges |
| | | c. Potable water, including uncontaminated water line flushings; | Y | Review of types of discharges | Allowable discharges |
| | | d. Uncontaminated condensate from air conditioners, coolers/chillers, and other compressors and from the outside storage of refrigerated gases or liquids; | Y | Review of types of discharges | Allowable discharges |
| | | e. Irrigation/landscape drainage, provided all pesticides, herbicides, and fertilizers have been applied in accordance with the approved labeling; | Y | Review of types of discharges | Allowable discharges |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| | | f. Pavement wash waters, provided that detergents or hazardous cleaning products are not used (e.g., bleach, hydrofluoric acid, muriatic acid, sodium hydroxide, nonylphenols), and the wash waters do not come into contact with oil and grease deposits, sources of pollutants associated with industrial activities (see Part 6.2.3), or any other toxic or hazardous materials, unless residues are first cleaned up using dry clean-up methods (e.g., applying absorbent materials and sweeping, using hydrophobic mops/rags) and you have implemented appropriate control measures to minimize discharges of mobilized solids and other pollutants (e.g., filtration, detention, settlement); | Y | Review of types of discharges | Allowable discharges |
| | | g. External building/structure washdown / power wash water that does not use detergents or hazardous cleaning products (e.g., those containing bleach, hydrofluoric acid, muriatic acid, sodium hydroxide, nonylphenols) and you have implemented appropriate control measures to minimize discharges of mobilized solids and other pollutants (e.g., filtration, detention, settlement); | Y | Review of types of discharges | Allowable discharges |
| | | h. Uncontaminated ground water or spring water; | Y | Review of types of discharges | Allowable discharges |
| | | i. Foundation or footing drains where flows are not contaminated with process materials; | Y | Review of types of discharges | Allowable discharges |
| | | j. Incidental windblown mist from cooling towers that collects on rooftops or adjacent portions of your facility, but not intentional discharges from the cooling tower (e.g., “piped” cooling tower blowdown; drains); and | Y | Review of types of discharges | Allowable discharges |
| | | k. Any authorized non-stormwater discharge listed above in this Part 1.2.2 or any stormwater discharge listed in Part 1.2.1 mixed with a discharge authorized by a different NPDES permit and/or a discharge that does not require NPDES permit authorization. | Y | Review of types of discharges | Allowable discharges |
| 1.2.2.2 | Additional Authorized Non-Stormwater Discharge for Sector A Facilities. | Discharges from the spray down of lumber and wood product storage yards where no chemical additives are used in the spray-down waters and no chemicals are applied to the wood during storage, provided the non-stormwater component of the discharge is in compliance with the non-numeric effluent limits requirements in Part 2.1.2. | Y | Review of facility types covered under the MSGP | No Sector A |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| 1.2.2.3 | Additional Authorized Non-Stormwater Discharges for Earth-Disturbing Activities Conducted Prior to Active Mining Activities for Sectors G, H and J Facilities. | The following non-stormwater discharges are only authorized for earth-disturbing activities conducted prior to active mining activities, as defined in Part 8.G.3.2, 8.H.3.2, and 8.J.3.2, provided that, with the exception of water used to control dust, these discharges are not routed to areas of exposed soil and all discharges comply with the permit's effluent limits. Once the earth-disturbing activities conducted prior to active mining activities have ceased, the only authorized non-stormwater discharges for Sectors G, H, and J are those listed here in Part 1.2.2.3: | Y | Review of facility types covered under the MSGP | No Sector G, H, or J |
| | | a. Water used to wash vehicles and equipment, provided that there is no discharge of soaps, solvents, or detergents used for such purposes; | Y | Review of facility types covered under the MSGP | No Sector G, H, or J |
| | | b. Water used to control dust; and | Y | Review of facility types covered under the MSGP | No Sector G, H, or J |
| | | c. Dewatering water that has been treated by an appropriate control under Parts 8.G.4.2.9, 8.H.4.2.9, or 8.J.4.2.9. | Y | Review of facility types covered under the MSGP | No Sector G, H, or J |
| 1.3 | Obtaining Authorization to Discharge | | | | |
| 1.3.1 | Prepare Your Stormwater Pollution Prevention Plan (SWPPP) Prior to Submitting Your Notice of Intent (NOI). | You must develop a SWPPP or update your existing SWPPP per Part 6 prior to submitting your NOI for coverage under this permit, per Part 1.3.2 below. You must make your SWPPP publicly available by either attaching it to your NOI, including a Uniform Resource Locator (URL) in your NOI, or providing additional information from your SWPPP on your NOI, per Part 6.4. | Y | Review of SWPPP | All SWPPPs publicly available in the Electronic Public Reading Room (EPRR) |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| 1.3.2 | How to Submit Your NOI to Get Permit Coverage. | To be covered under this permit, you must use EPA's NPDES eReporting Tool for the MSGP (NeT-MSGP) to electronically prepare and submit to EPA a complete and accurate NOI by the deadline applicable to your facility presented in Table 1-2. The NOI certifies to EPA that you are eligible for coverage according to Part 1.1 and provides information on your industrial activities and related discharges. Per Part 7.1, you must submit your NOI electronically via NeT-MSGP, unless the applicable EPA Regional Office grants you a waiver from electronic reporting, in which case you may use the paper NOI form in Appendix G. To access NeT-MSGP, go to https://www.epa.gov/npdes/stormwater-discharges-industrial-activities#accessingmsgp | Y | Permit issued by regulatory authority. | Permit issued by regulatory authority. |
| 1.3.3 | Deadlines for Submitting Your NOI and Your Official Date of Permit Coverage. | Table 1-2 provides the deadlines for submitting your NOI and your official start date of permit coverage. | Y | Permit issued by regulatory authority. | Permit issued by regulatory authority. |
| 1.3.4 | Modifying your NOI. | If after submitting your NOI, you need to correct or update any fields, you may do so by submitting a "Change NOI" form using NeT-MSGP. Per Part 7.1, you must submit your Change NOI electronically via NeT-MSGP, unless the EPA Regional Office grants you a waiver from electronic reporting, in which case you may use the suggested format for the paper Change NOI form. | Y | Review of NOIs | No new NOIs for the 2021 permit. Previous NOIs were submitted by paper form. Future NOIs will be submitted electronically. |
| 1.3.4.1 | | For an existing operator, if any of the information supplied on the NOI changes, you must submit a Change NOI form within thirty (30) calendar days after the change occurs. | Y | Review of NOIs | No new NOIs for the 2021 permit. Previous NOIs were submitted by paper form. Future NOIs will be submitted electronically. |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| 1.3.4.2 | | At a facility where there is a transfer in operator or a new operator takes over operational control at an existing facility, the new operator must submit a new NOI no later than thirty (30) calendar days after a change in operators. The previous operator must submit a Notice of Termination (NOT) no later than thirty (30) calendar days after MSGP coverage becomes active for the new operator, as specified in Part 1.4. | Y | Review of NOIs | No new NOIs for the 2021 permit. Previous change in operator in 2018 followed up with NOIs. |
| 1.3.5 | Requirement to Post a Sign of your Permit Coverage. | You must post a sign or other notice of your permit coverage at a safe, publicly accessible location in close proximity to your facility. Public signage is not required where other laws or local ordinances prohibit such signage, in which case you must document in your SWPPP a brief explanation for why you cannot post a sign and a reference to the law or ordinance. You must use a font large enough to be readily viewed from a public right-of-way and perform periodic maintenance of the sign to ensure that it remains legible, visible, and factually correct. At minimum, the sign must include: | Y | Visual inspection of facility | Signage posted. |
| 1.3.5.1 | | The following statement: "[Name of facility] is permitted for industrial stormwater discharges under the U.S. EPA's Multi-Sector General Permit (MSGP);" | Y | Visual inspection of facility | Signage posted. |
| 1.3.5.2 | | Your NPDES ID number; | Y | Visual inspection of facility | Signage posted. |
| 1.3.5.3 | | A contact phone number for obtaining additional facility information; | Y | Visual inspection of facility | Signage posted. |
| 1.3.5.4 | | One of the following: | Y | Visual inspection of facility | Signage posted. |
| | | a. The URL for the SWPPP (if available), and the following statement: "To report observed indicators of stormwater pollution, contact [optional: include facility point of contact and] EPA at: [include the applicable MSGP Regional Office contact information found at https://www.epa.gov/npdes/contact-us-stormwater#regional]; or | Y | Visual inspection of facility | Signage posted. |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| | | b. The following statement: "To obtain the Stormwater Pollution Prevention Plan (SWPPP) for this facility or to report observed indicators of stormwater pollution, contact [optional: include facility point of contact and] EPA at [include the applicable MSGP Regional Office contact information found at https://www.epa.gov/npdes/contact-us-stormwater#regional]." | Y | Visual inspection of facility | Signage posted. |
| 1.3.6 | Your Official End Date of Permit Coverage. | Once covered under this permit, your coverage will last until the date that: | Y | Permit expiration | Permit not expired |
| 1.3.6.1 | | You terminate permit coverage by submitting a NOT per Part 1.4; or | | | |
| 1.3.6.2 | | You receive coverage under a different NPDES permit or a reissued or replacement version of this permit after it expires on February 28, 2026; or | | | |
| 1.3.6.3 | | You fail to submit an NOI for coverage under a reissued or replacement version of this permit before the required deadline. | | | |
| 1.3.7 | Continuation of Coverage for Existing Operators After the Permit Expires | | Y | Permit expiration | Permit not expired |
| 1.3.7.1 | | Note that if the 2021 MSGP is not reissued or replaced prior to the expiration date, it will be administratively continued in accordance with section 558(c) of the Administrative Procedure Act (see 40 CFR 122.6) and remain in force and effect for operators that were covered prior to its expiration. All operators authorized to discharge prior to the expiration date of the 2021 MSGP will automatically remain covered under the 2021 MSGP until the earliest of: | | | |
| | | a. The date the operator is authorized for coverage under a new version of the MSGP following the timely submittal of a complete and accurate NOI. Note that if a timely NOI for coverage under the reissued or replacement permit is not submitted, coverage will terminate on the date that the NOI was due; or | | | |
| | | b. The date of the submittal of a Notice of Termination; or | | | |
| | | c. Issuance of an individual permit for the facility's discharge(s); or | | | |
| | | d. A final permit decision by EPA not to reissue the MSGP, at which time EPA will identify a reasonable period for covered operators to seek coverage under an alternative general permit or an individual permit. Coverage under the 2021 MSGP will terminate at the end of this period. | | | |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| 1.3.7.2 | | EPA reserves the right to modify or revoke and reissue the 2021 MSGP under 40 CFR 122.62 and 63, in which case operators will be notified of any relevant changes or procedures to which they may be subject. If EPA fails to issue another general permit prior to the expiration of a previous one, EPA does not have the authority to provide coverage to industrial operators not already covered under that prior general permit. If the five-year expiration date for the 2021 MSGP has passed and a new MSGP has not been reissued, new operators seeking discharge authorization should contact EPA regarding the options available, such as applying for individual permit coverage. | | | |
| 1.3.8 | Coverage Under Alternative Permits. | EPA may require you to apply for and/or obtain authorization to discharge under an alternative permit, i.e., either an individual NPDES permit or an alternative NPDES general permit, in accordance with 40 CFR 122.64 and 124.5. If EPA requires you to apply for an alternative permit, the Agency will notify you in writing that a permit application or NOI is required. This notification will include a brief statement of the reasons for this decision and will contain alternative permit application or NOI requirements, including deadlines for completing your application or NOI. | Y | Permit issued by regulatory authority. | Permit issued by regulatory authority. |
| 1.3.8.1 | Denial of Coverage for New or Previously Unpermitted Facilities. | For new or previously unpermitted facilities, following the submittal of your NOI, you may be denied coverage under this permit and must apply for and/or obtain authorization to discharge under an alternative permit. | Y | Permit issued by regulatory authority. | Permit issued by regulatory authority. |
| 1.3.8.2 | Loss of Authorization Under the 2021 MSGP for Existing Permitted Facilities. | If your stormwater discharges are covered under this permit, you may receive a written notification that you must either apply for coverage under an individual NPDES permit or submit an NOI for coverage under an alternative general NPDES permit. In addition to the reasons for the decision and alternative permit application or NOI deadlines, the notice will include a statement that on the effective date of your alternative permit coverage, your coverage under the 2021 MSGP will terminate. EPA will terminate your MSGP permit coverage in NeT-MSGP at that time. EPA may grant additional time to submit the application or NOI if you request it. If you fail to submit an alternative permit application or NOI as required by EPA, then your authorization to discharge under the 2021 MSGP is terminated at the end of the day EPA required you to submit your alternative permit application or NOI. EPA may take appropriate enforcement action for any unpermitted discharge. | Y | Permit issued by regulatory authority. | Permit issued by regulatory authority. |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| 1.3.8.3 | Operators Requesting Coverage Under an Alternative Permit. | You may request to be covered under an individual permit. In such a case, you must submit an individual permit application in accordance with the requirements of 40 CFR 122.28(b)(3)(iii), with reasons supporting the request, to the applicable EPA Regional Office listed in Part 7.8 of this permit. The request may be granted by issuance of an individual permit if your reasons are adequate to support the request. When you are authorized to discharge under an alternative permit, your authorization to discharge under the 2021 MSGP is terminated on the effective date of the alternative permit. | Y | Permit issued by regulatory authority. | Permit issued by regulatory authority. |
| 1.4 | Terminating Permit Coverage | | | | |
| 1.4.1 | How to Submit your Notice of Termination (NOT) to Terminate Permit Coverage. | To terminate permit coverage, you must use EPA's NPDES eReporting Tool for the MSGP (NeT-MSGP) to electronically prepare and submit to EPA a complete and accurate NOT. Per Part 7.1, you must submit your NOT electronically via NeT-MSGP, unless the EPA Regional Office grants you a waiver from electronic reporting, in which case you may use the paper NOT form in Appendix H. To access NeT-MSGP, go to https://www.epa.gov/npdes/stormwater-discharges-industrial-activities#accessingmsgp | NA | | |
| | | Your authorization to discharge under this permit terminates at midnight of the day that you are notified that your complete NOT has been processed. If you submit a NOT without meeting one or more of the conditions in Part 1.4.2 then your NOT is not valid. | NA | | |
| | | Until you terminate permit coverage, you must comply with all conditions and effluent limitations in the permit. | NA | | |
| 1.4.2 | When to Submit Your Notice of Termination | You must submit a NOT within 30 days after one or more of the following conditions have been met: | NA | | |
| 1.4.2.1 | | A new owner or operator has received authorization to discharge under this permit or | NA | | |
| 1.4.2.2 | | You have ceased operations at the facility and/or there are not or no longer will be discharges of stormwater associated with industrial activity from the facility, and you have already implemented necessary sediment and erosion controls per Part 2.1.2.5; or | NA | | |
| 1.4.2.3 | | You are a Sector G, H, or J facility and you have met the applicable termination requirements; or | NA | | |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| 1.4.2.4 | | You obtained coverage under an individual or alternative general permit for all discharges required to be covered by an NPDES permit, unless EPA terminates your coverage for you per Part 1.3.8. | NA | | |
| 1.5 | Conditional Exclusion for No Exposure | If you are covered by this permit and become eligible for a "no exposure" exclusion from permitting under 40 CFR 122.26(g), you may file a No Exposure Certification (NEC). You are no longer required to have a permit upon submission of a complete and accurate NEC to EPA. If you are no longer required to have permit coverage because of a no exposure exclusion and have submitted a NEC form to EPA, you are not required to submit a NOT. You must submit a NEC form to EPA once every five years. | NA | | |
| | | You must use EPA's NPDES eReporting Tool for the MSGP (NeT-MSGP) to electronically prepare and submit to EPA a complete and accurate NEC. Per Part 7.1, you must submit your NEC electronically via NeT-MSGP, unless the applicable EPA Regional Office grants you a waiver from electronic reporting, in which case you may use the paper NEC form in Appendix K. To access NeT-MSGP, go to https://cdxnodengn.epa.gov/net-msgp/action/login | NA | | |
| 1.6 | 1 Permit Compliance | Any noncompliance with any of the requirements of this permit constitutes a violation of this permit, and thus is a violation of the Clean Water Act (CWA). As detailed in Part 5, failure to take any required corrective actions constitutes an independent, additional violation of this permit, in addition to any original violation that triggered the need for a corrective action. As such, any actions and time periods specified for remedying noncompliance do not absolve you of the initial underlying noncompliance. | NA | | |
| | | Where an Additional Implementation Measure (AIM) is triggered by an event that does not itself constitute permit noncompliance (i.e., an exceedance of an applicable benchmark), there is no permit violation provided you comply with the required responses within the relevant deadlines established in Part 5. | NA | | |
| 1.7 | Severability | Invalidation of a portion of this permit does not necessarily render the whole permit invalid. EPA's intent is that the permit is to remain in effect to the extent possible; in the event that any part of this permit is invalidated, EPA will advise the regulated community as to the effect of such invalidation. | NA | | |

### B.1.2 SECTION 2 CONTROL MEASURES AND EFFLUENT LIMITS

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| 2 | Control Measures and Effluent Limits | In the technology-based limits included in Parts 2.1 and 8, the term "minimize" means to reduce and/or eliminate to the extent achievable using stormwater control measures (SCMs) (including best management practices [BMPs]) that are technologically available and economically practicable and achievable in light of best industry practice. The term "infeasible" means not technologically possible or not economically practicable and achievable in light of best industry practices. EPA notes that it does not intend for any permit requirement to conflict with state water rights law. | NA | | |
| 2.1 | Stormwater Control Measures | You must select, design, install, and implement stormwater control measures (including BMPs) to minimize pollutant discharges that address the selection and design considerations in Part 2.1.1, meet the non-numeric effluent limits in Part 2.1.2, meet limits contained in applicable effluent limitations guidelines in Part 2.1.3, and meet the water quality-based effluent limitations in Part 2.2. | Y | Visual inspection of facility | Documentation and verification of adequate control measures. |
| | | The selection, design, installation, and implementation of control measures to comply with Part 2 must be in accordance with good engineering practices and manufacturer's specifications. Note that you may deviate from such manufacturer's specifications where you provide justification for such deviation and include documentation of your rationale in the part of your SWPPP that describes your control measures, consistent with Part 6.2.4. You must modify your stormwater control measures per Part 5.1 if you find that your control measures are not achieving their intended effect of minimizing pollutant discharges (i.e., your discharges will be controlled as necessary such that the receiving water of the United States will meet applicable water quality standards or meet any of the other non-numeric effluent limits in this permit). Regulated stormwater discharges from your facility include stormwater run-on that commingles with stormwater discharges associated with industrial activity at your facility. | Y | Visual inspection of facility | Documentation and verification of adequate control measures. Documentation of control measure improvements over time in response to exceedances |
| 2.1.1 | Stormwater Control Measure Selection and Design Considerations. | You must consider the following when selecting and designing control measures: | | | |
| 2.1.1.1 | | Preventing stormwater from coming into contact with polluting materials is generally more effective, and less costly, than trying to remove pollutants from stormwater; | Y | Visual inspection of facility | Documentation and verification of adequate |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| 2.1.1.2 | | Using stormwater control measures in combination may be more effective than using control measures in isolation for minimizing pollutants in your stormwater discharge; | | | control measures. |
| 2.1.1.3 | | Assessing the type and quantity of pollutants, including their potential to impact receiving water quality, is critical to designing effective stormwater control measures that will achieve the limits in this permit; | | | |
| 2.1.1.4 | | Minimizing impervious areas at your facility and infiltrating stormwater onsite (including bioretention cells, green roofs, and pervious pavement, among other approaches) can reduce the frequency and volume of discharges and improve ground water recharge and stream base flows in local streams, although care must be taken to avoid ground water contamination; | | | |
| 2.1.1.5 | | Attenuating flow using open vegetated swales and natural depressions can reduce in-stream impacts of erosive flows; | | | |
| 2.1.1.6 | | Conserving and/or restoring riparian buffers will help protect streams from stormwater discharges and improve water quality; | | | |
| 2.1.1.7 | | Using treatment interceptors (e.g., swirl separators and sand filters) maybe appropriate in some instances to minimize the discharge of pollutants; and | | | |
| 2.1.1.8 | | Implementing structural improvements, enhanced/resilient pollution prevention measures, and other mitigation measures can help to minimize impacts from stormwater discharges from major storm events such as hurricanes, storm surge, extreme/heavy precipitation, and flood events. If such stormwater control measures are already in place due to existing requirements mandated by other state, local or federal agencies, you should document in your SWPPP a brief description of the controls and a reference to the existing requirement(s). If your facility may be exposed to or has previously experienced such major storm events, additional stormwater control measures that may be considered include, but are not limited to: | Y | Precipitation records and interviews | Heavy storm events and flooding are uncommon. The facilities sit at the top of mesas that do not receive upstream floodwaters. Nevertheless, the listed BMPs are utilized at Los Alamos National Laboratory (LANL). |
| | | a. Reinforce materials storage structures to withstand flooding and additional exertion of force; | NA | | |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| | | b. Prevent floating of semi-stationary structures by elevating to the Base Flood Elevation (BFE) level or securing with non-corrosive device; | NA | | |
| | | c. When a delivery of exposed materials is expected, and a storm is anticipated within 48 hours, delay delivery until after the storm or store materials as appropriate (refer to emergency procedures); | NA | | |
| | | d. Temporarily store materials and waste above the BFE level; | NA | | |
| | | e. Temporarily reduce or eliminate outdoor storage; | NA | | |
| | | f. Temporarily relocate any mobile vehicles and equipment to higher ground; | NA | | |
| | | g. Develop scenario-based emergency procedures for major storms that are complementary to regular stormwater pollution prevention planning and identify emergency contacts for staff and contractors; and | NA | | |
| | | h. Conduct staff training for implementing your emergency procedures at regular intervals. | NA | | |
| 2.1.2 | Non-Numeric Technology-Based Effluent Limits (Best Practicable Control Technology/Best Available Technology/Best Conventional Pollutant Control Technology [BPT/BAT/BCT]). | You must comply with the following non-numeric effluent limits as well as any sector-specific non-numeric effluent limits in Part 8, except where otherwise specified. | Y | Review of discharges | None except for the polynuclear aromatic hydrocarbon (PAH) monitoring at asphalt batch plant |
| | | Effluent limit requirements in Part 2.1.2 that do not involve the site-specific selection of a control measure or are specific activity requirements (e.g., "Cleaning catch basins when the depth of debris reaches two-thirds (2/3) of the sump depth, in line with manufacturer specifications, whichever is lower, and keeping the debris surface at least six inches below the lowest outlet pipe") are marked with an asterisk (*). When documenting in your SWPPP, per Part 6, how you will comply with the requirements marked with an asterisk, you have the option of including additional information or you may just "copy-and-paste" those effluent limits word-for-word from the permit into your SWPPP without providing additional documentation (see Part 6.2.4). | | | |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| 2.1.2.1 | Minimize Exposure. | You must minimize the exposure of manufacturing, processing, and material storage areas (including loading and unloading, storage, disposal, cleaning, maintenance, and fueling operations) to rain, snow, snowmelt, and stormwater in order to minimize pollutant discharges by either locating these industrial materials and activities inside or protecting them with storm resistant coverings. Unless infeasible, you must also: | Y | Visual inspection of facility | Documentation and verification of adequate control measures. |
| | | a. Use grading, berming or curbing to prevent discharges of contaminated flows and divert run-on away from these areas; | | | |
| | | b. Locate materials, equipment, and activities so that potential leaks and spills are contained or able to be contained or diverted before discharge; | | | |
| | | c. Store leaky vehicles and equipment indoors; | | | |
| | | d. Perform all vehicle and/or equipment cleaning operations indoors, under cover, or in bermed areas that prevent discharges and run-on and that capture any overspray; and | | | |
| | | e. Drain fluids from equipment and vehicles that will be decommissioned, and, for any equipment and vehicles that will remain unused for extended periods of time, inspect at least monthly for leaks. | | | |
| | | Note: Industrial materials do not need to be enclosed or covered if stormwater from affected areas does not discharge pollutants to waters of the United States or if discharges are authorized under another NPDES permit. | | | |
| 2.1.2.2 | Good Housekeeping. | You must keep clean all exposed areas that are potential sources of pollutants. You must perform good housekeeping measures in order to minimize pollutant discharges, including but not limited to, the following: | Y | Visual inspection of facility | Documentation and verification of adequate control measures. |
| | | a. Sweep or vacuum at regular intervals or, alternatively, wash down the area and collect and/or treat, and properly dispose of the washdown water; | | | |
| | | b. Store materials in appropriate containers; | | | |
| | | c. Keep all dumpster lids closed when not in use. For dumpsters and roll off boxes that do not have lids and could leak, ensure that discharges have a control (e.g., secondary containment, treatment). Consistent with Part 1.2.2 above, this permit does not authorize dry weather discharges from dumpsters or roll off boxes;* | | | |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| | | d. Minimize the potential for waste, garbage and floatable debris to be discharged by keeping exposed areas free of such materials, or by intercepting them before they are discharged. | | | |
| | | e. Plastic Materials Requirements: Facilities that handle pre-production plastic must implement control measures to eliminate discharges of plastic in stormwater.9 Examples of plastic material required to be addressed as stormwater pollutants include plastic resin pellets, powders, flakes, additives, regrind, scrap, waste and recycling. | | | |
| 2.1.2.3 | Maintenance. | a. Maintenance Activities. | | | |
| | | You must maintain all control measures that are used to achieve the effluent limits in this permit in effective operating condition, as well as all industrial equipment and systems, in order to minimize pollutant discharges. This includes: | | | |
| | | ii. Performing inspections and preventive maintenance of stormwater drainage, source controls, treatment systems, and plant equipment and systems that could fail and result in discharges of pollutants via stormwater. | Y | Review of inspection records | Routine inspection records made available. |
| | | iii. Maintaining non-structural control measures (e.g., keep spill response supplies available, personnel appropriately trained). | Y | Visual inspection of facility | Compliance teams and environmental professionals are qualified and trained. |
| | | iv. Inspecting and maintaining baghouses at least quarterly to prevent the escape of dust from the system and immediately removing any accumulated dust at the base of the exterior baghouse.* | Y | Review of inspection records | No baghouses |
| | | v. Cleaning catch basins when the depth of debris reaches two-thirds (2/3) of the sump depth, or in line with manufacturer specifications, whichever is lower, and keeping the debris surface at least six inches below the lowest outlet pipe.* | Y | Visual inspection of facility | Catch basins were dry during inspections. |
| | | b. Maintenance Deadlines. | | | |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| | | ii. If you find that your control measures need routine maintenance, you must conduct the necessary maintenance immediately in order to minimize pollutant discharges. | Y | Interviews and databases | Connected maintenance databases expedite the time between identification of an issue to work complete |
| | | iii. If you find that your control measures need to be repaired or replaced, you must immediately take all reasonable steps to prevent or minimize the discharge of pollutants until the final repair or replacement is implemented, including cleaning up any contaminated surfaces so that the material will not be discharged during subsequent storm events. Final repairs/replacement of stormwater controls should be completed as soon as feasible but must be no later than the timeframe established in Part 5.1.3 for corrective actions, i.e., within 14 days or, if that is infeasible, within 45 days. If the completion of stormwater control repairs/replacement will exceed the 45 day timeframe, you may take the minimum additional time necessary to complete the maintenance, provided you notify the EPA Regional Office of your intention to exceed 45 days, and document in your SWPPP your rationale for your modified maintenance timeframe. If a control measure was never installed, was installed incorrectly or not in accordance with Parts 2 and/or 8, or is not being properly operated or maintained, you must conduct corrective action as specified in Part 5.1. | Y | SWPPP version history | No instances of delayed repairs to control measures. |
| | | Note: In this context, the term “immediately” means the day you identify that a control measure needs to be maintained, repaired, or replaced, you must take all reasonable steps to minimize or prevent the discharge of pollutants until you can implement a permanent solution. However, if you identify a problem too late in the workday to initiate action, you must perform the action the following work day morning. “All reasonable steps” means you must respond to the conditions triggering the action, such as, cleaning up any exposed materials that may be discharged in a storm event (e.g., through sweeping, vacuuming) or making arrangements (i.e., scheduling) for a new SCM to be installed. | Y | SWPPP version history | No instances of delayed repairs to control measures. |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| 2.1.2.4 | Spill Prevention and Response. | You must minimize the potential for leaks, spills and other releases that may be exposed to stormwater and develop plans for effective response to such spills if or when they occur in order to minimize pollutant discharges. You must conduct spill prevention and response measures, including but not limited to, the following: | Y | Visual inspection of facility | Documentation of adequate control measures. |
| | | a. Clean up spills and leaks promptly using dry methods (e.g., absorbents) to prevent the discharge of pollutants; | Y | Visual inspection of facility | Documentation of adequate control measures. |
| | | b. Use drip pans and absorbents if leaky vehicles and/or equipment are stored outdoors; | Y | Visual inspection of facility | Documentation of adequate control measures. |
| | | c. Use spill/overflow protection equipment; | Y | Visual inspection of facility | Documentation of adequate control measures. |
| | | d. Plainly label containers (e.g., “Used Oil,” “Spent Solvents,” “Fertilizers and Pesticides”) that could be susceptible to spillage or leakage to encourage proper handling and facilitate rapid response if spills or leaks occur;* | Y | Visual inspection of facility | Documentation of adequate control measures. |
| | | e. Implement procedures for material storage and handling, including the use of secondary containment and barriers between material storage and traffic areas, or a similarly effective means designed to prevent the discharge of pollutants from these areas; | Y | Visual inspection of facility | Documentation of adequate control measures. |
| | | f. Develop training on the procedures for expeditiously stopping, containing, and cleaning up leaks, spills, and other releases. As appropriate, execute such procedures as soon as possible; | Y | Visual inspection of facility | Documentation of adequate control measures. |
| | | g. Keep spill kits onsite, located near areas where spills may occur or where a rapid response can be made; and | Y | Visual inspection of facility | Documentation of adequate control measures. |
| | | h. Notify appropriate facility personnel when a leak, spill, or other release occurs. | Y | Review of records | Spill response reviewed as part |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| | | | | | of the Second Triennial |
| | | Where a leak, spill or other release containing a hazardous substance or oil in an amount equal to or in excess of a reportable quantity established under either 40 CFR Part 110, 40 CFR Part 117, or 40 CFR Part 302, occurs during a 24-hour period, you must notify the National Response Center (NRC) at (800) 424-8802 or, in the Washington, DC, metropolitan area, call (202) 267-2675 in accordance with the requirements of 40 CFR Part 110, 40 CFR Part 117, and 40 CFR Part 302 as soon as you have knowledge of the discharge. State or local requirements may necessitate reporting spills or discharges to local emergency response, public health, or drinking water supply agencies. Contact information must be in locations that are readily accessible and available. | Y | Review of records | Spill response reviewed as part of the Second Triennial |
| 2.1.2.5 | Erosion and Sediment Controls. | To minimize pollutant discharges in stormwater, you must minimize erosion by stabilizing exposed soils at your facility and placing flow velocity dissipation devices at discharge locations to minimize channel and streambank erosion and scour in the immediate vicinity of discharge points. You must also use structural and non-structural control measures to minimize the discharge of sediment. If you use polymers and/or other chemical treatments as part of your controls, you must identify the polymers and/or chemicals used and the purpose in your SWPPP. There are many resources available to help you select appropriate SCMs for erosion and sediment control, including EPA's Stormwater Discharges from Construction Activities website at: https://www.epa.gov/npdes/stormwater-discharges-construction-activities. | Y | Visual inspection of facility | Documentation of adequate control measures. |
| 2.1.2.6 | Management of Stormwater. | You must divert, infiltrate, reuse, contain, or otherwise reduce stormwater to minimize pollutants in your discharges. In selecting, designing, installing, and implementing appropriate control measures, you are encouraged to consult with EPA's resources relating to stormwater management, including the sector-specific Industrial Stormwater Fact Sheet Series, (https://www.epa.gov/npdes/stormwater-discharges-industrial-activities#factsheets) and any similar state or tribal resources. | Y | Visual inspection of facility | Documentation of adequate control measures. |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| 2.1.2.7 | Salt Storage Piles or Piles Containing Salt. | You must enclose or cover storage piles of salt, or piles containing salt, used for deicing or other commercial or industrial purposes, including maintenance of paved surfaces, in order to minimize pollutant discharges. You must implement appropriate measures (e.g., good housekeeping, diversions, containment) to minimize exposure resulting from adding to or removing materials from the pile. Piles do not need to be enclosed or covered pursuant to this permit if stormwater from the piles is not discharged or if discharges from the piles are authorized under another NPDES permit. | Y | Visual inspection of facility | Confirmed no salt storage outside. |
| 2.1.2.8 | Employee Training. | a. Types of Personnel Who Require Training. You must train all employees who work in areas where industrial materials or activities are exposed to stormwater, or who are responsible for implementing activities necessary to comply with this permit (e.g., inspectors, maintenance personnel), including all members of your stormwater pollution prevention team. You must ensure the following personnel understand the requirements of this permit and their specific responsibilities with respect to those requirements: | Y | Review of records | Documentation of stormwater protection training in SWPPPs. Compliance team and EDPs well versed in permit requirements. Additional training workshops provided to site workers. |
| | | i. Personnel who are responsible for the design, installation, maintenance, and/or repair of controls (including pollution prevention measures); | | | |
| | | ii. Personnel responsible for the storage and handling of chemicals and materials that could become pollutants discharged via stormwater; | | | |
| | | iii. Personnel who are responsible for conducting and documenting monitoring and inspections as required in Parts 3 and 4; and | | | |
| | | iv. Personnel who are responsible for taking and documenting corrective actions as required in Part 5. | | | |
| | | b. Areas of Required Training. Personnel must be trained in at least the following if related to the scope of their job duties (e.g., only personnel responsible for conducting inspections need to understand how to conduct inspections): | Y | Review of records | Documentation of stormwater protection training in SWPPPs. Compliance team and environmental professionals well versed in permit |
| | | i. An overview of what is in the SWPPP; | | | |
| | | ii. Spill response procedures, good housekeeping, maintenance requirements, and material management practices; | | | |
| | | iii. The location of all the controls required by this permit, and how they are to be maintained; | | | |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| | | iv. The proper procedures to follow with respect to the permit's pollution prevention requirements; and | | | requirements. Additional training workshops provided to site workers. |
| | | v. When and how to conduct inspections, record applicable findings, and take corrective actions; and | | | |
| | | vi. The facility's emergency procedures, if applicable per Part 2.1.1.8. | | | |
| 2.1.2.9 | Non-Stormwater Discharges. | You must evaluate for the presence of non-stormwater discharges. You must eliminate any non-stormwater discharges not explicitly authorized in Part 1.2.2 or covered by another NPDES permit, including vehicle and equipment/tank wash water (except for those authorized in Part 1.2.2.3 for Sectors G, H, and J). If not covered under a separate NPDES permit, wastewater, wash water and any other unauthorized non-stormwater must be discharged to a sanitary sewer in accordance with applicable industrial pretreatment requirements, or otherwise disposed of appropriately. | Y | Visual inspection of facility and review of discharges | No non-stormwater discharges not covered by another NPDES permit or covered under the specific exceptions listed. |
| 2.1.2.10 | Dust Generation and Vehicle Tracking of Industrial Materials. | You must minimize generation of dust and off-site tracking of raw, final, or waste materials in order to minimize pollutants discharged via stormwater. | Y | Visual inspection of facility | Documentation of adequate control measures. |
| 2.1.3 | Numeric Effluent Limitations Based on Effluent Limitations Guidelines. | If you are in an industrial category subject to one of the effluent limitations guidelines identified in Table 4-3 (see Part 4.2.3.1), you must meet the effluent limits referenced in Table 2-1 below: | Y | Review discharge types | PAHs are being monitored from the asphalt batch plant. |
| 2.2 | Water Quality-Based Effluent Limitations | | | | |
| 2.2.1 | Water Quality Standards. | Your discharge must be controlled as necessary to meet applicable water quality standards of all affected states. | Y | Review monitoring reports and corrective actions. | Monitoring results are interpreted against permit and corrective actions are applied. |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| | | EPA expects that compliance with the conditions in this permit will control discharges as necessary to meet applicable water quality standards. If at any time you become aware, or EPA determines, that your stormwater discharge will not be controlled as necessary such that the receiving water of the United States will not meet an applicable water quality standard, you must take corrective action(s) as required in Part 5.1 and document the corrective actions as required in Part 5.3. You must also comply with any additional requirements that your state or tribe requires in Part 9. | Y | Review monitoring reports and corrective actions. | Monitoring results are interpreted against permit and corrective actions are applied. |
| | | EPA may also require that you undertake additional control measures (to meet the narrative water quality-based effluent limit above) on a site-specific basis, or require you to obtain coverage under an individual permit, if information in your NOI, required reports, or from other sources indicates that your discharges are not controlled as necessary such that the receiving water of the United States will not meet applicable water quality standards. You must implement all measures necessary to be consistent with an available waste-load allocation in an EPA-established or approved TMDL. | Y | Review monitoring reports and corrective actions. | Monitoring results are interpreted against permit and corrective actions are applied. |
| 2.2.2 | Discharges to Water Quality-Impaired Waters. | You are considered to discharge to an impaired water if the first water of the United States to which your discharge is identified by a state, tribe or EPA as not meeting an applicable water quality standard, and: | Y | Review impaired waters lists | LANL discharges into impaired waters of Sandia, Pajarito, Canada del Buey, Canon de Valle, Arroyo de la Delfe, and Mortandad |
| | | Requires development of a TMDL (pursuant to section 303(d) of the CWA); | NA | | |
| | | Is addressed by an EPA-approved or established TMDL; or | NA | | |
| | | Is not in either of the above categories but the waterbody is covered by a pollution control program that meets the requirements of 40 CFR130.7(b)(1). | NA | | |
| | | Note: For discharges that enter a separate storm sewer system10 prior to discharge, the first water of the United States to which you discharge is the waterbody that receives the water from the storm sewer system. | NA | | |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| 2.2.2.1 | Existing Discharge to an Impaired Water with an EPA-Approved or Established TMDL. | If you discharge to an impaired water with an EPA-approved or established TMDL, EPA will inform you whether any additional measures are necessary for your discharge to be consistent with the assumptions and requirements of the applicable TMDL and its waste-load allocation, or if coverage under an individual permit is necessary per Part 1.3.8. | NA | Review impaired waters lists | No waters with TMDLs |
| 2.2.2.2 | Existing Discharger to an Impaired Water without an EPA-Approved or Established TMDL. | If you discharge to an impaired water without an EPA-approved or established TMDL, you are still required to comply with Part 2.2.1 and the monitoring requirements of Part 4.2.5.1. Note that the impaired waters monitoring requirements of Part 4.2.5.1 also apply where EPA determines that your discharge is not controlled as necessary such that the receiving water of the United States will not meet applicable water quality standards in an impaired downstream water segment, even if your discharge is initially to a receiving water(s) that is not identified as impaired according to Part 2.2.2. | Y | Review impaired waters lists | LANL discharges into impaired waters of Sandia, Pajarito, Canada del Buey, Canon de Valle, Arroyo de la Delfe, and Mortandad |
| 2.2.2.3 | New Discharger or New Source to an Impaired Water. | If your authorization to discharge under this permit relied on Part 1.1.6.2 for a new discharger or a new source to an impaired water, you must implement and maintain any measures that enabled you to become eligible under Part 1.1.6.2, and modify such measures as necessary pursuant to any Part 5 corrective actions. You also must comply with Part 2.2.1 and the monitoring requirements of Parts 4.2.5.1. | NA | | |
| 2.2.3 | Tier 2 Antidegradation Requirements for New Dischargers, New Sources, or Increased Discharges. | If you are a new discharger or a new source (as defined in Appendix A), or an existing discharger required to notify EPA of an increased discharge consistent with Part 7.6 (i.e., a “planned changes” report), and you discharge directly to waters designated by a state or tribe as Tier 2 or Tier 2.5 for antidegradation purposes under 40 CFR 131.12(a), EPA may require that you undertake additional control measures as necessary to ensure compliance with the applicable antidegradation requirements, or notify you that an individual permit application is necessary in accordance with Part 1.3.8. See list of Tier 2 and 2.5 waters in Appendix L. | NA | | |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| 2.3 | Requirements Relating to Endangered Species, Historic Properties, and CERCLA Sites | If your eligibility under either Part 1.1.4, Part 1.1.5, and/or Part 1.1.7 was made possible through your, or another operator's, agreement to undertake additional measures, you must comply with all such measures to maintain eligibility under the MSGP. Note that if at any time you become aware, or EPA determines, that your discharges and/or discharge-related activities have the potential to adversely affect listed species and/or critical habitat, have an effect on historic properties, or that your facility discharges to a CERCLA Site listed in Appendix P after you have obtained coverage under this permit, EPA may inform you of the need to implement additional measures on a site-specific basis to meet the effluent limits in this permit, or require you to obtain coverage under an individual permit. | NA | | Endangered species protection plans included in all SWPPPs. Habitat Management Plans reviewed and approved by USFWS. |

### B.1.3 SECTION 3 INSPECTIONS

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| 3.1 | ROUTINE FACILITY INSPECTIONS | | | | |
| 3.1.1 | Inspection Personnel. | Qualified personnel (as defined in Appendix A) must perform the inspections. The qualified personnel may be a member of your stormwater pollution prevention team, or if the qualified personnel is a third-party you hire (i.e., a contractor), at least one member of your stormwater pollution prevention team must participate in the inspection. Inspectors must consider the results of visual and analytical monitoring (if any) for the past year when planning and conducting inspections. | Y | Review of training records | Documentation of stormwater protection training in SWPPPs. Compliance team and environmental professionals well versed in permit requirements. |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| 3.1.2 | Areas that You Must Inspect | During normal facility operating hours, the qualified personnel must conduct inspections of areas of the facility covered by the requirements in this permit, including, but not limited to, the following:<br>3.1.2.1 Areas where industrial materials or activities are exposed to stormwater;<br>3.1.2.2 Areas identified in the SWPPP and those that are potential pollutant sources (see Part 6.2.3);<br>3.1.2.3 Areas where spills and leaks have occurred in the past three years;<br>3.1.2.4 Discharge points; and<br>3.1.2.5 Control measures used to comply with the effluent limits contained in this permit. | Y | Review of inspection records | Inspections are performed at the required areas based on inspection forms on record |
| 3.1.3 | What You Must Look for During an Inspection | During the inspection, the qualified personnel must examine or look out for, including, but not limited to, the following:<br>3.1.3.1 Industrial materials, residue or trash that may have or could come into contact with stormwater;<br>3.1.3.2 Leaks or spills from industrial equipment, drums, tanks and other containers;<br>3.1.3.3 Offsite tracking of industrial or waste materials, or sediment where vehicles enter or exit the site;<br>3.1.3.4 Tracking or blowing of raw, final or waste materials from areas of no exposure to exposed areas;<br>3.1.3.5 Erosion of soils at your facility, channel and streambank erosion and scour in the immediate vicinity of discharge points, per Part 2.1.2.5;<br>3.1.3.6 Non-authorized non-stormwater discharges, per Part 2.1.2.9;<br>3.1.3.7 Control measures needing replacement, maintenance or repair; and<br>3.1.3.8 During an inspection occurring during a stormwater event or stormwater discharge, you must observe control measures implemented to comply with effluent limits to ensure they are functioning correctly. You must also observe discharge points, as defined in Appendix A, during this inspection. If such discharge locations are inaccessible, you must inspect nearby downstream locations. | Y | Review of inspection records | Elements are inspected based on inspection forms on record |
| 3.1.4 | Inspection Frequency | The qualified personnel must conduct inspections at least quarterly (i.e., once each calendar quarter), or in some instances more frequently (e.g., monthly). Increased frequency may be appropriate for some types of equipment, processes and stormwater control measures, or areas of the facility with significant activities and materials exposed to stormwater. At least once each calendar year, the routine inspection must be conducted during a period when a stormwater discharge is occurring. | Y | Review of inspection records | Inspections are performed at the required frequency based on inspection forms on record |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| 3.1.5 | Exceptions to Routine Facility Inspections for Inactive and Unstaffed Facilities | The requirement to conduct facility inspections on a routine basis does not apply at a facility that is inactive and unstaffed, as long as there are no industrial materials or activities exposed to stormwater. Such a facility is only required to conduct an annual site inspection in accordance with Part 3.1. To invoke this exception, you must indicate that your facility is inactive and unstaffed on your NOI. If you are already covered under the permit and your facility has changed from active to inactive and unstaffed, you must modify and re-certify your NOI. You must also include a statement in your SWPPP per Part 6.2.5.2 indicating that the site is inactive and unstaffed, and that there are no industrial materials or activities exposed to stormwater, in accordance with the substantive requirements in 40 CFR 122.26(g)(4)(iii). The statement must be signed and certified in accordance with Appendix B, Subsection 11. If circumstances change and industrial materials or activities become exposed to stormwater or your facility becomes active and/or staffed, this exception no longer applies, and you must immediately resume routine facility inspections. If you are not qualified for this exception at the time you become authorized under this permit, but during the permit term you become qualified because your facility becomes inactive and unstaffed, and there are no industrial materials or activities exposed to stormwater, you must include the same signed and certified statement as above and retain it with your records pursuant to Part6.5. | NA | | No inactive facilities |
| | | Inactive and unstaffed facilities covered under Sectors G (Metal Mining), H (Coal Mines and Coal Mining-Related Facilities), and J (Non-Metallic Mineral Mining and Dressing) are not required to meet the “no industrial materials or activities exposed to stormwater” standard to be eligible for this exception from routine inspections, per Parts 8.G.8.4, 8.H.9.1, and 8.J.9.1. | NA | | |
| 3.1.6 | Routine Facility Inspection Documentation | You must document the findings of your facility inspections and maintain this report with your SWPPP as required in Part 6.5. You must conduct any corrective action required as a result of a routine facility inspection consistent with Part 5. If you conducted a discharge visual assessment required in Part 3.2 during your facility inspection, you may include the results of the assessment with the report required in this Part, as long as you include all components of both types of inspections in the report. | Y | Review of inspection records | Documentation of inspections and corrective actions included in the SWPPPs |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| | | Do not submit your routine facility inspection report to EPA, unless specifically requested to do so. However, you must summarize your findings in the Annual Report per Part 7.4. Document all findings, including but not limited to, the following information.<br>3.1.6.1 The inspection date and time;<br>3.1.6.2 The name(s) and signature(s) of the inspector(s);<br>3.1.6.3 Weather information;<br>3.1.6.4 All observations relating to the implementation of stormwater control measures at the facility, including:<br>a. A description of any stormwater discharges occurring at the time of the inspection;<br>b. Any previously unidentified stormwater discharges from and/or pollutants at the facility;<br>c. Any evidence of, or the potential for, pollutants entering the stormwater drainage system;<br>d. Observations regarding the physical condition of and around all stormwater discharge points, including any flow dissipation devices, and evidence of pollutants in discharges and/or the receiving water;<br>e. Any stormwater control measures needing maintenance, repairs, or replacement;<br>3.1.6.5 Any additional stormwater control measures needed to comply with the permit requirements;<br>3.1.6.6 Any incidents of noncompliance; and<br>3.1.6.7 A statement, signed and certified in accordance with Appendix B, Subsection 11. | Y | Review of inspection records | Summaries included in the annual reports are complete |
| 3.2 | QUARTERLY VISUAL ASSESSMENT OF STORMWATER DISCHARGES | | | | |
| 3.2.1 | Visual Assessment Frequency | Once each quarter for your entire permit coverage, you must collect a stormwater sample from each discharge point (except as noted in Part 3.2.4) and conduct a visual assessment of each of these samples. These samples are not required to be collected consistent with 40 CFR Part 136 procedures but must be collected in such a manner that the samples are representative of the stormwater discharge. Guidance on monitoring is available at https://www.epa.gov/sites/production/files/2015-11/documents/msgp_monitoring_guide.pdf. | Y | Review of stormwater inspection records | Correct frequency of visual stormwater assessment samples is confirmed via the SWPPPs |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| 3.2.2 | Visual Assessment Procedures | You must do the following for the quarterly visual assessment:<br>3.2.2.1 Make the assessment of a stormwater discharge sample in a clean, colorless glass or plastic container, and examined in a well-lit area; | Y | Review of stormwater inspection records | Correct procedure of visual stormwater assessment samples and required corrective action is confirmed via the SWPPPs |
| | | 3.2.2.2 Make the assessment of the sample you collected within the first 30 minutes of an actual discharge from a storm event. If it is not possible to collect the sample within the first 30 minutes of discharge, the sample must be collected as soon as practicable after the first 30 minutes and you must document why it was not possible to take the sample within the first 30 minutes. In the case of snowmelt, samples must be taken during a period with a measurable discharge; and | | | |
| | | 3.2.2.3 For storm events, make the assessment on discharges that occur at least 72 hours (three days) from the previous discharge. The 72-hour (three-day) storm interval does not apply if you document that less than a 72-hour (three-day) interval is representative for local storm events during the sampling period. | | | |
| | | 3.2.2.4 Visually inspect or observe for the following water quality characteristics, which may be evidence of stormwater pollution:<br>a. Color;<br>b. Odor;<br>c. Clarity (diminished);<br>d. Floating solids;<br>e. Settled solids;<br>f. Suspended solids;<br>g. Foam;<br>h. Oil sheen; and<br>i. Other obvious indicators of stormwater pollution. | | | |
| | | 3.2.2.5 Whenever the visual assessment shows evidence of stormwater pollution in the discharge, you must initiate the corrective action procedures in Part 5.1.1. | | | |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| 3.2.3 | Visual Assessment Documentation | You must document the results of your visual assessments and maintain this documentation onsite with your SWPPP as required in Part 6.5. Any corrective action required as a result of a quarterly visual assessment must be conducted consistent with Part 5 of this permit. You are not required to submit your visual assessment findings to EPA, unless specifically requested to do so. However, you must summarize your findings in the annual report per Part 7.4. Your documentation of the visual assessment must include, but not be limited to:<br>3.2.3.1 Sample location(s);<br>3.2.3.2 Sample collection date and time, and visual assessment date and time for each sample;<br>3.2.3.3 Personnel collecting the sample and conducting visual assessment, and their signatures;<br>3.2.3.4 Nature of the discharge (i.e., stormwater from rain or snow);<br>3.2.3.5 Results of observations of the stormwater discharge;<br>3.2.3.6 Probable sources of any observed stormwater contamination;<br>3.2.3.7 If applicable, why it was not possible to take samples within the first 30 minutes; and<br>3.2.3.8 A statement, signed and certified in accordance with Appendix B, Subsection 11. | Y | Review of stormwater inspection records | Summaries included in the annual reports are complete |
| 3.2.4 | Exceptions to Quarterly Visual Assessments | 3.2.4.1 Adverse Weather Conditions. When adverse weather conditions prevent the collect sample during the next qualifying storm event. Documentation of the rationale for no visual assessment for the quarter must be included with your SWPPP records as described in Part 6.5. Adverse conditions are those that are dangerous or create inaccessibility for personnel, such as local flooding, high winds, electrical storms, or situations that otherwise make sampling impractical, such as extended frozen conditions. | Y | Review of stormwater inspection records | Delays of visual stormwater assessment samples is confirmed via the SWPPPs |
| | | 3.2.4.2 Climates with Irregular Stormwater Discharges. If your facility is located in an area where limited rainfall occurs during many parts of the year (e.g., arid or semi-arid climate) or in an area where freezing conditions exist that prevent discharges from occurring for extended periods, then your samples for the quarterly visual assessments may be distributed during seasons when precipitation more regularly occurs. | Y | Review of stormwater inspection procedures | NOI submittals specify the need for a custom assessment schedule. |
| | | 3.2.4.3 Areas that Receive Snow. If the facility is in an area that typically receives snow and the facility receives snow at least once over a period of four quarters, at least one quarterly visual assessment must capture snowmelt discharge, as described in Part 4.1.3, taking into account the exception described above for climates with irregular stormwater discharges. | Y | Review of stormwater inspection records | Documentation of visual stormwater inspections |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| | | 3.2.4.4 Inactive and Unstaffed Facilities. The requirement for a quarterly visual assessment does not apply at a facility that is inactive and unstaffed, as long as there are no industrial materials or activities exposed to stormwater. To invoke this exception, you must maintain a statement in your SWPPP per Part 6.2.5.2 indicating that the site is inactive and unstaffed, and that there are no industrial materials or activities exposed to precipitation, in accordance with the substantive requirements in 40 CFR 122.26(g)(4)(iii). The statement must be signed and certified in accordance with Appendix B, Subsection 11. If circumstances change and industrial materials or activities become exposed to stormwater or your facility becomes active and/or staffed, this exception no longer applies, and you must immediately resume quarterly visual assessments. If you are not qualified for this exception at the time you are authorized under this permit, but during the permit term you become qualified because your facility becomes inactive and unstaffed, and there are no industrial materials or activities that are exposed to stormwater, then you must include the same signed and certified statement as above and retain it with your records pursuant to Part 6.5. Inactive and unstaffed facilities covered under Sectors G (Metal Mining), H (Coal Mines and Coal Mining-Related Facilities), and J (Non-Metallic Mineral Mining and Dressing), are not required to meet the "no industrial materials or activities exposed to stormwater" standard to be eligible for this exception from quarterly visual assessments, consistent with the requirements established in Parts 8.G.8.4, 8.H.9.1, and 8.J.9.1. | NA | | |
| | | 3.2.4.5 Substantially Identical Discharge Points (SIDPs). If your facility has two or more discharge points that discharge substantially identical stormwater effluents, as documented in Part 6.2.5.3, you may conduct quarterly visual assessments of the discharge at just one of the discharge points and report that the results also apply to the SIDPs provided you conduct visual assessments on a rotating basis of each SIDP throughout the period of your coverage under this permit. If stormwater contamination is identified through visual assessment conducted at a SIDP, you must assess and modify your stormwater control measures as appropriate for each discharge point represented by the monitored discharge point. | Y | Review of stormwater inspection records | There are SIDPs at the site. These relationships are included in the inspection schedule. |

### B.1.4 SECTION 4 MONITORING

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| 4 | Monitoring | You must collect and analyze stormwater samples and document monitoring activities consistent with the procedures described in Part 4 and Appendix B, Subsections B.10 – 12, and any additional sector-specific or state/tribal-specific requirements in Parts 8 and 9, respectively. Refer to Part 7 for reporting and recordkeeping requirements. | Y | | See below |
| 4.1 | Monitoring Procedures | | | | |
| | Monitored Stormwater Discharge Points. | Applicable monitoring requirements apply to each discharge point authorized by this permit, except as otherwise exempt from monitoring as an SIDP. If your facility has two or more discharge points that you believe discharge substantially identical stormwater effluents, based on the similarities of the general industrial activities and control measures, exposed materials that may significantly contribute pollutants to stormwater, and runoff coefficients of their drainage areas, you may monitor the effluent of just one of the discharge points and report that the results also apply to the SIDP(s). As required in Part 6.2.5.3, your SWPPP must identify each discharge point authorized by this permit and describe the rationale for any SIDP determinations. The allowance for monitoring only one of the SIDP is not applicable to any discharge points with numeric effluent limitations. You are required to monitor each discharge point covered by a numeric effluent limit as identified in Part 4.2.2. | Y | Review of records | SWPPP and NOIs identify monitoring discharge points and SIDP as required. |
| 4.1.2 | Commingled Discharges. | If any authorized stormwater discharges commingle with discharges not authorized under this permit, you must conduct any required sampling of the authorized discharges at a point before they mix with other waste streams, to the extent practicable. | Y | Visual inspection of facilities | No observed commingling at or before discharge points |
| 4.1.3 | Measurable Storm Events. | You must conduct all required monitoring on a storm event that results in an actual discharge (“measurable storm event”) that follows the preceding measurable storm event by at least 72 hours (three days). The 72-hour (3-day) storm interval does not apply if you are able to document that less than a 72-hour (3-day) interval is representative for local storm events during the sampling period. In the case of snowmelt, you must conduct monitoring at a time when a measurable discharge occurs. | Y | Review of monitoring records | Monitoring outfitted by automated samplers to capture discharges during storm events |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| | | For each monitoring event, except snowmelt monitoring, you must identify the date and duration (in hours) of the rainfall event, rainfall total (in inches) for that rainfall event, and time (in days) since the previous measurable storm event. For snowmelt monitoring, you must identify the date of the sampling event. | Y | Review of monitoring records and databases | Weather stations record and databases save and archive precipitation events. |
| 4.1.4 | Sample Type. | You must take a minimum of one grab sample from a discharge resulting from a measurable storm event as described in Part 4.1.3. You must collect samples within the first 30 minutes of a discharge associated with a measurable storm event. If it is not possible to collect the sample within the first 30 minutes of a measurable storm event, you must collect the sample as soon as possible after the first 30 minutes and keep documentation with the SWPPP explaining why it was not possible to take samples within the first 30 minutes. In the case of snowmelt, you must take samples during a period with a measurable discharge. | Y | Review of sampling records | Monitoring outfitted by automated samplers to capture discharges during storm events |
| | | For indicator monitoring and benchmark monitoring, you may choose to use a composite sampling method instead of taking grab samples. This composite method may be either flow-weighted or time-weighted and performed manually or with the use of automated sampling equipment. For the purposes of this permit, a flow-weighted composite sample means a composite sample consisting of a mixture of aliquots collected at a constant or variable time interval, where the volume of each aliquot included in the composite sample is proportional to the estimated or measured incremental discharge volume at the time of the aliquot collection compared to the total discharge volume estimated or measured over the monitoring event. For the purposes of this permit, a time-weighted composite sample means a composite sample consisting of a mixture of equal volume aliquots collected at a regular defined time interval over a specific period. Composite sampling must be initiated during the first 30 minutes of the same storm event. If it is not possible to initiate composite sampling within the first 30 minutes of a measurable storm event, you must initiate composite sampling as soon as possible after the first 30 minutes and keep documentation with the SWPPP explaining why it was not possible to initiate composite sampling within the first 30 minutes. You must submit all monitoring results to EPA per Part 4.1.9. Composite sampling may not be used in situations where hold times for processing or sample preservation requirements cannot be satisfied. For parameters measured in-situ with a probe or meter such as dissolved oxygen, conductivity, pH, or temperature, the composite | NA | | Automated samplers collect grab samples |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| | | sampling method shall be modified by calculating an average all individual measurements, weighted by flow volume if applicable. | | | |
| 4.1.5 | Adverse Weather Conditions. | When adverse weather conditions as described in Part 3.2.4.1 prevent the collection of stormwater discharge samples according to the relevant monitoring schedule, you must take a substitute sample during the next qualifying storm event. Adverse weather does not exempt you from having to file a benchmark monitoring report in accordance with your sampling schedule. As specified in Part 7.4, you must indicate in Net-DMR any failure to monitor during the regular reporting period. | Y | Review of sampling records | Documentation of sampling |
| 4.1.6 | Facilities in Climates with Irregular Stormwater Discharges. | If your facility is located in areas where limited rainfall occurs during parts of the year (e.g., arid or semi-arid climates) or in areas where freezing conditions exist that prevent discharges from occurring for extended periods, you may distribute your required monitoring events during seasons when precipitation occurs, or when snowmelt results in a measurable discharge from your facility. You must still collect the required number of samples. As specified in Part 7.4, you must also indicate in Net-DMR that there was no monitoring for the respective monitoring period. | Y | Review of NOI | NOI submittals specify the need for a custom assessment schedule. |
| 4.1.7 | Monitoring Periods. | Your monitoring requirements in this permit begin in the first full quarter following either May 30, 2021or your date of discharge authorization, whichever date comes later.<br>• January 1 – March 31<br>• April 1 – June 30<br>• July 1 – September 30<br>• October 1 – December 31<br>For example, if you obtain permit coverage on April 10, 2021, then your first monitoring quarter for benchmark monitoring is– July 1, 2021 – September 30, 2021 and your first monitoring year for discharges to impaired waters or discharges subject to an effluent limitation guideline is July 1, 2021 – June 30, 2022. This monitoring schedule may be modified in accordance with Part 4.1.6 if you document the revised schedule in your SWPPP. However, you must indicate in Net-DMR any 3-month interval that you did not take a sample. | Y | Review of monitoring schedules | Automated samplers go online for first sampling period on July 1. |
| 4.1.8 | Monitoring for Authorized Non-Stormwater Discharges. | You are only required to monitor authorized non-stormwater discharges (as delineated in Part 1.2.2) when they are commingled with stormwater discharges associated with industrial activity. | NA | | |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| 4.1.9 | Monitoring Reports. | You must report monitoring data using Net-DMR, EPA's electronic DMR tool, as described in Part 7.3 (unless the applicable EPA Regional Office grants you a waiver from electronic reporting, in which case you may submit a paper Discharge Monitoring Report [DMR] form). | Y | Review of reporting records | Reporting being performed though Net-DMR |
| 4.2 | Required Monitoring | This permit includes six types of required analytical monitoring, one or more of which may apply to your stormwater discharge:<br>• Indicator monitoring (Part 4.2.1);<br>• Benchmark monitoring (Part 4.2.2);<br>• Annual effluent limitations guidelines monitoring (Part 4.2.3);<br>• State- or tribal-specific monitoring (Part 4.2.4);<br>• Impaired waters monitoring (Part 4.2.5); and<br>• Other monitoring as required by EPA (Part 4.2.6). | Y | Review of monitoring records | Documentation of monitoring plans, schedules, and records match monitoring requirements. See below. |
| | | Unless otherwise specified, samples must be analyzed consistent with 40 CFR Part 136 analytical methods that are sufficiently sensitive for the monitored parameter. When more than one type of monitoring for the same pollutant at the same discharge point applies (e.g., total suspended solids once per year for an effluent limitation and once per quarter for benchmark monitoring at a given discharge point), you may use a single sample to satisfy both monitoring requirements (i.e., one sample satisfying both the annual effluent limitation sample and one of the four quarterly benchmark monitoring samples). Similarly, when the same type of monitoring is required for the same pollutant but for different activities, you may use a single sample to satisfy both monitoring requirements (i.e., when you are required to monitor for PAHs in stormwater discharges from paved surfaces that will be sealed or re-sealed with coal-tar sealcoat where industrial activities are located during coverage under this permit and you are also required to monitor for PAHs in stormwater discharges since you manufacture, use, or store creosote or creosote-treated wood in areas that are exposed to precipitation). | NA | | |
| | | When the effluent limitation is lower than the benchmark threshold for the same pollutant, your AIM trigger is based on an exceedance of the effluent limitation threshold, which would subject you to the AIM requirements of Part 5.2. Exceedance of an effluent limitation associated with the results of any analytical monitoring type required by this Part subjects you to the corrective action requirements of Part 5.1. You must conduct all required monitoring in accordance with the procedures described in Appendix B, Subsection B.10. | NA | | |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| | | Per Part 1.3.7, in the event that the permit is administratively continued, monitoring requirements remain in force and effect at their original frequency during any continuance for operators that were covered prior to permit expiration. In the event that monitoring results are unable to be electronically reported in Net-DMR, operators must maintain monitoring results and records within their SWPPP. | NA | | |
| 4.2.1 | Indicator Monitoring. | This permit requires indicator monitoring of stormwater discharges for three parameters – pH, total suspended solids (TSS), and chemical oxygen demand (COD) – for certain sectors/subsectors (see Part 4.2.1.1.a below) and for PAHs for certain sectors/activities, with additional limitations (see Part 4.2.1.1.b below). Indicator monitoring data will provide you and EPA with a baseline and comparable understanding of industrial stormwater discharge quality and potential water quality problems. The indicator monitoring parameters are "report-only" and do not have thresholds or baseline values for comparison, therefore no follow-up action is triggered or required under this part. The requirement in Part 2.2.1 that your stormwater discharge be controlled as necessary such that the receiving water of the United States will meet applicable water quality standards still applies. You may find it useful to evaluate and compare your indicator monitoring data over time to identify any fluctuating values and why they may be occurring, and to further inform any revisions to your SWPPP/SCMs if necessary. Indicator monitoring is report-only and is neither benchmark monitoring nor an effluent limitation. Instead, it is a permit condition. Thus, failure to conduct indicator monitoring is a permit violation. | Y | Review of monitoring records | See below |
| 4.2.1.1 | Applicability and Schedule of Indicator Monitoring | a. pH, TSS, and COD. | Y | Review of sampling records | Monitoring of pH, TSS, and COD in all facilities with the exception of Sector K in TA-54 |
| | | i. Applicability. Operators in the following subsectors must monitor stormwater discharges for pH, TSS, and COD (also specified in the sector-specific requirements in Part 8): B2, C5, D2, E3, F5, I1, J3, L2, N2, O1, P1, R1, T1, U3, V1, W1, X1, Y2, Z1, AB1, AC1, and AD1). Samples must be analyzed consistent with 40 CFR Part 136 analytical methods. | | | |
| | | ii. Schedule. You must conduct indicator monitoring of stormwater discharges for pH, TSS, and COD each quarter, beginning in your first full quarter of permit coverage as identified in Part 4.1.7. | | | |
| | | b. PAHs. | Y | | |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| | | i. Applicability. The following operators must monitor stormwater discharges for the 16 individual priority pollutant PAHs (also specified in the sector-specific requirements in Part 8): operators in all sectors with stormwater discharges from paved surfaces that will be sealed or re-sealed with coal-tar sealcoat where industrial activities are located during coverage under this permit; operators in sectors A (facilities that manufacture, use, or store creosote or creosote-treated wood in areas that are exposed to precipitation), C (Standard Industry Classification [SIC] Code 2911), D, F, H, I, M, O, P (SIC Codes 4011, 4013, and 5171), Q (SIC Code 4491), R, and S. Monitoring is required for the 16 individual PAHs identified at Appendix A to 40 CFR Part 423: naphthalene, acenaphthylene, acenaphthene, fluorene, phenanthrene, anthracene, fluoranthene, pyrene, benzo[a]anthracene, chrysene, benzo[b]fluoranthene, benzo[k]fluoranthene, benzo[a]pyrene, benzo[g,h,i]perylene, indeno[1,2,3-c,d]pyrene, and dibenz[a,h]anthracene. Samples must be analyzed using EPA Method 625.1, or EPA Method 610/Standard Method 6440B if preferred by the operator, consistent with 40 CFR Part 136 analytical methods. | | Review of sampling records | Monitoring of PAH in Sector D (asphalt batch plant) and in TA-54 where coal-tar sealcoat is used. |
| | | ii. Schedule. You must conduct indicator monitoring of stormwater discharges for PAHs bi-annually (i.e., sample twice per year) in the first and fourth years of permit coverage. Your first year of permit coverage begins in your first full quarter of permit coverage, identified in Part 4.1.7, commencing no earlier than May 30, 2021, followed by two years of no monitoring. Bi-annual monitoring resumes in your fourth year of permit coverage for another year, after which you may discontinue bi-annual PAH monitoring for the remainder of your permit coverage. | | | |
| 4.2.1.2 | Exception for Facilities in Climates with Irregular Stormwater Discharges. | As described in Part 4.1.6, facilities in climates with irregular stormwater discharges may modify this schedule provided you report this revised schedule directly to EPA by the due date of the first indicator monitoring sample (see EPA Regional contacts in Part 7.8), and you keep this revised schedule with the facility's SWPPP as specified in Part 6.5. As noted in Part 4.1.7, you must indicate in Net-DMR any 3-month interval that you did not take a sample. | Y | Review of NOI | NOI submittals specify the need for a custom assessment schedule. |
| 4.2.1.3 | Exception for Inactive and Unstaffed Facilities. | The requirement for indicator monitoring does not apply at a facility that is inactive and unstaffed, provided there are no industrial materials or activities exposed to stormwater. To invoke this exception, you must do the following: | NA | | No unstaffed facilities |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| | | a. Maintain a statement with your SWPPP stating that the site is inactive and unstaffed, and that there are no industrial materials or activities exposed to stormwater in accordance with the substantive requirements in 40 CFR 122.26(g) and sign and certify the statement in accordance with Appendix B, Subsection 11. | | | |
| | | b. If circumstances change and industrial materials or activities become exposed to stormwater or your facility becomes active and/or staffed, this exception no longer applies, and you must immediately begin complying with the applicable indicator monitoring requirements under Part 4.2.1 as if you were in your first year of permit coverage. You must indicate in your NOI that your facility has materials or activities exposed to stormwater or has become active and/or staffed. | | | |
| | | c. If you are not qualified for this exception at the time you are authorized under this permit, but during the permit term you become qualified because your facility is inactive and unstaffed, and there are no industrial materials or activities that are exposed to stormwater, then you must notify EPA of this change on your NOI form. You may discontinue indicator monitoring once you have notified EPA, and prepared and signed the certification statement described above concerning your facility's qualification for this special exception. | | | |
| 4.2.2 | Benchmark Monitoring. | This permit requires benchmark monitoring parameters of stormwater discharges for certain sectors/subsectors. Benchmark monitoring data are primarily for your use to determine the overall effectiveness of your stormwater control measures and to assist you in determining when additional action(s) may be necessary to comply with the effluent limitations in Part 2. | Y | Review of sampling records | See below |
| | | The benchmark thresholds are not effluent limitations; a benchmark exceedance, therefore, is not a permit violation. However, if a benchmark exceedance triggers AIM in Part 5.2, failure to conduct any required measures is a permit violation. At your discretion, you may take more than four samples during separate stormwater discharge events to determine the average benchmark parameter value for facility discharges. | | | |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| 4.2.2.1 | Applicability of Benchmark Monitoring. | You must monitor stormwater discharges for any benchmark parameters specified for the industrial sector(s), both primary industrial activity and any co-located industrial activities, applicable to your discharge listed in Part 8. If your facility is in one of the industrial sectors subject to benchmark thresholds that are hardness-dependent, you must include in your NOI a hardness value, established consistent with the procedures in Appendix J, that is representative of your receiving water. Hardness is not a specific benchmark and therefore the permit does not include a benchmark threshold with which to compare. | Y | Review of NOI and monitoring procedures | NOI specifies hardness-based metals appropriate for the sectors associated with the facilities. |
| | | Samples must be analyzed consistent with 40 CFR Part 136 analytical methods and using test procedures with quantitation limits at or below benchmark thresholds for all benchmark parameters for which you are required to sample, i.e., sufficiently sensitive methods. For averaging purposes, you may use a value of zero for any individual sample parameter which is determined to be less than the method detection limit (MDL). For sample values that fall between the MDL and the quantitation limit (i.e., a confirmed detection but below the level that can be reliably quantified), use a value halfway between zero and the quantitation limit. | Y | Review of laboratory analytical results | MDLs and quantitation limits provided by the laboratories meet benchmark thresholds |
| 4.2.2.2 | Summary of the 2021 MSGP Benchmark Thresholds | The Table 4-2 presents the 2021 MSGP's freshwater and saltwater benchmark thresholds. Sector-specific benchmark requirements are detailed in Part 8. Values match the original units found in the source documents, detailed in the corresponding section of the fact sheet. | Y | Review of database and SWPPPs | 2021 Benchmark Thresholds adopted. |
| 4.2.2.3 | Benchmark Monitoring Schedule. | Benchmark monitoring of stormwater discharges is required quarterly, as identified in Part 4.1.7, in the first and fourth year of permit coverage, as follows: | Y | Review of sampling plans and SWPPPs | Databases are programmed to adapt monitoring schedules to monitoring results. SWPPPs document the correct scheduling logic. |
| | | a. Year one of permit coverage: You must conduct benchmark monitoring for all parameters applicable to your subsector(s) for four quarters in your first year of permit coverage, beginning in your first full quarter of permit coverage, no earlier than May 30, 2021. | Y | Review of sampling records | Documentation of sampling |
| | | i. If the annual average for a parameter does not exceed the benchmark threshold, you can discontinue benchmark monitoring for that parameter for the next two years (i.e., eight quarters). | | | |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| | | ii. If the annual average for a parameter exceeds the benchmark threshold, you must comply with Part 5.2 (AIM responses and deadlines) and continue quarterly benchmark monitoring for that parameter until results indicate that the annual average is no longer exceeded, after which you can discontinue benchmark monitoring for that parameter until monitoring resumes in year four of permit coverage, per Part 4.2.2.3.b below. | | | |
| | | b. Year four of permit coverage: You must conduct benchmark monitoring for all parameters applicable to your subsector(s) for four quarters in your fourth year of permit coverage (i.e., your 13th through 16th quarters), unless the first quarter of your fourth year of permit coverage occurs on or after the date this permit expires. | | | |
| | | i. If the annual average for a parameter does not exceed the benchmark threshold, you can discontinue benchmark monitoring for that parameter for the remainder of your permit coverage. | | | |
| | | ii. If the annual average for a parameter exceeds the benchmark threshold, you must comply with Part 5.2 (Additional Implementation Measures responses and deadlines) and continue quarterly benchmark monitoring for that parameter until results indicate that the annual average is no longer exceeded, after which you can discontinue benchmark monitoring for that parameter for the remainder of permit coverage. | | | |
| 4.2.2.4 | Exception for Facilities in Climates with Irregular Stormwater Discharges. | As described in Part 4.1.6, facilities in climates with irregular stormwater discharges may modify this quarterly schedule provided you report this revised schedule directly to EPA by the due date of the first benchmark sample (see EPA Regional contacts in Part 7.8), and you keep this revised schedule with the facility's SWPPP as specified in Part 6.5. When conditions prevent you from obtaining four samples in four consecutive quarters, you must continue monitoring until you have the four samples required for calculating your benchmark monitoring average. As noted in Part 4.1.7, you must indicate in Net-DMR any 3-month interval that you did not take a sample. | Y | Review of NOI | NOI submittals specify the need for a custom assessment schedule. |
| 4.2.2.5 | Exception for Inactive and Unstaffed Facilities. | The requirement for benchmark monitoring does not apply at a facility that is inactive and unstaffed, provided there are no industrial materials or activities exposed to stormwater. To invoke this exception, you must do the following: | NA | | No unstaffed facilities |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| | | a. Maintain a statement with your SWPPP stating that the site is inactive and unstaffed, and that there are no industrial materials or activities exposed to stormwater in accordance with the substantive requirements in 40 CFR 122.26(g) and sign and certify the statement in accordance with Appendix B, Subsection 11. | | | |
| | | b. If circumstances change and industrial materials or activities become exposed to stormwater or your facility becomes active and/or staffed, this exception no longer applies, and you must immediately begin complying with the applicable benchmark monitoring requirements under Part 4.2.2 as if you were in your first year of permit coverage. You must indicate in your NOI that your facility has materials or activities exposed to stormwater or has become active and/or staffed. | | | |
| | | c. If you are not qualified for this exception at the time you are authorized under this permit, but during the permit term you become qualified because your facility is inactive and unstaffed, and there are no industrial materials or activities that are exposed to stormwater, then you must notify EPA of this change on your NOI form. You may discontinue benchmark monitoring once you have notified EPA, and prepared and signed the certification statement described above concerning your facility's qualification for this special exception. | | | |
| | | Note: This exception has different requirements for Sectors G, H, and J (see Part 8). | | | |
| 4.2.3 | Effluent Limitations Monitoring | | | | |
| 4.2.3.1 | Monitoring Based on Effluent Limitations Guidelines. | Table 4-3 identifies the stormwater discharges subject to effluent limitation guidelines that are authorized for coverage under this permit. An exceedance of the effluent limitation is a permit violation. Beginning in the first full quarter following May 30, 2021 or your date of discharge authorization, whichever date comes later, you must monitor once per year at each stormwater discharge point containing the discharges identified in Table 4-3 for the parameters specified in the sector-specific section of Part 8. | Y | Review of sampling records | PAH monitoring from asphalt batch plant |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| 4.2.3.2 | Substantially Identical Discharge Points Not Applicable. | You must monitor each discharge point discharging stormwater from any regulated activity identified in Table 4-3. The SIDP monitoring provisions are not available for numeric effluent limit monitoring. | NA | | |
| 4.2.3.3 | Follow-up Actions if Discharge Exceeds Numeric Effluent Limitation. | If any monitoring value exceeds a numeric effluent limitation contained in this permit, you must indicate the exceedance on a "Change NOI" form in the NPDES eReporting Tool (NeT), and you must conduct follow-up monitoring within 30 calendar days (or during the next measurable storm event, should none occur within 30 days) of implementing corrective action(s) taken per Part 5.1. If your follow-up monitoring exceeds the applicable effluent limitation, you must: | Y | Review of Change NOIs | An exceedance report with corrective actions was submitted with a Change NOI on March 20, 2020 due to an effluent limitation guideline exceedance as required. |
| | | a. Submit an Exceedance Report: You must submit an Exceedance Report no later than 30 days after you have received your laboratory result consistent with Part 7.5; and | | | |
| | | b. Continue to Monitor: You must monitor, at least quarterly, until your stormwater discharge is in compliance with the effluent limit or until EPA waives the requirement for additional monitoring. Once your discharge is back in compliance with the effluent limitation you must indicate this on a "Change NOI" form per Part 7.3. | | | |
| 4.2.4 | State or Tribal Required Monitoring | | | | |
| 4.2.4.1 | Sectors Required to Conduct State or Tribal Monitoring. | You must comply with any state or tribal monitoring requirements in Part 9 of the permit applicable to your facility's discharge location. | Y | | See Part 9 checklist |
| 4.2.4.2 | State or Tribal Monitoring Schedule. | If a monitoring frequency is not specified for an applicable requirement in Part 9, you must monitor once per year for the duration of your permit coverage. | | | |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| 4.2.5 | Impaired Waters Monitoring. | For the purposes of this permit, your facility is considered to discharge to an impaired water if the first water of the United States to which you discharge is identified by a state, tribe, or EPA pursuant to section 303(d) of the CWA as not meeting an applicable water quality standard (i.e., without an EPA-approved or -established TMDL, see Part 4.2.5.1.a below), or has been removed from the 303(d) list either because the impairments are addressed by an EPA-approved or established TMDL or is covered by pollution control requirements that meet the requirements of 40 CFR 130.7(b)(1) (see Part 4.2.5.1.b below). For discharges that enter a separate storm sewer system14 prior to discharge, the first water of the United States to which you discharge is the waterbody that receives the stormwater discharge from the separate storm sewer system. | Y | Review of sampling records | See below |
| 4.2.5.1 | Facilities Required to Monitor Stormwater Discharges to Impaired Waters. | a. Discharges to impaired waters without an EPA-approved or established TMDL: | Y | Review of sampling plans and SWPPPs | Databases are programmed to adapt monitoring schedules to monitoring results. SWPPPs document the correct scheduling logic for the 2021 MSGP. |
| | | Monitoring is required annually in the first year of permit coverage and again in the fourth year of permit coverage as follows, unless you detect a pollutant causing an impairment, in which case annual monitoring must continue. | | | |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| | | i. Year one of permit coverage: You must take your first annual sample in your first year of permit coverage, which begins in the first full quarter following May 30, 2021 or your date of discharge authorization, whichever date comes later. You must monitor for all pollutants causing impairments using a standard analytical method, provided one exists (see 40 CFR Part 136), once at each discharge point (except substantially identical discharge points) discharging stormwater to impaired waters without an EPA-approved or established TMDL. Note: Except where otherwise directed by EPA, if the pollutant of concern for the impaired waterbody is suspended solids, turbidity, or sediment/sedimentation, you must monitor for TSS. If a pollutant of concern is expressed in the form of an indicator or surrogate pollutant, you must monitor for that indicator or surrogate pollutant. No monitoring is required when a waterbody's biological communities are impaired but no pollutant, including indicator or surrogate pollutants, is specified as causing the impairment, or when a waterbody's impairment is related to hydrologic modifications, impaired hydrology, or other non-pollutant. Operators must consult the applicable EPA Regional Office for any available guidance regarding required monitoring parameters under this part. | | | |
| | | 1) If monitoring results indicate the monitored pollutant is not detected in your discharge, or is within the acceptable range for a given parameter for the waterbody to meet its designated use (e.g., pH or temperature),15 you may discontinue monitoring for that pollutant for the next two years. You must resume monitoring for that pollutant in year four of permit coverage, if applicable, per Part 4.2.5.1.a.ii. | | | |
| | | 2) If monitoring results indicate that the monitored pollutant is detected in your stormwater discharge, or is outside the acceptable range for a given parameter (e.g., pH or temperature) for the waterbody to meet its designated use,16 you must continue to monitor for the pollutant(s) annually until no longer detected, after which you may discontinue monitoring for that pollutant until monitoring resumes in year four of permit coverage, if applicable, per Part 4.2.5.1.a.ii. | | | |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| | | ii. Year four of permit coverage. Annual monitoring resumes in your fourth year of permit coverage for another year for a sub-set of parameters monitored for in the first monitoring year. In the fourth year of permit coverage, you must monitor for all pollutants causing impairment(s) that are associated with your industrial activity and/or are listed as a benchmark parameter for your subsector(s) (regardless of whether you have satisfied benchmark monitoring for the parameter per Part 4.2.2). To determine these pollutants, start with the list of pollutants for which the receiving waterbody is impaired and for which a standard analytical method exists (see 40 CFR Part 136), then compare that list to the industrial pollutants you identified in Part 6.2.3.2 and any sector-specific benchmark monitoring pollutants in Part 8 and, if applicable, Part 9. You must monitor for pollutants that appear on both the impairments list and either your industrial pollutants and/or your benchmark parameter list, including “indicator” or “surrogate” pollutants (as described in the “note” in 1 above). You must monitor once at each discharge point (except SIDPs) for these pollutants. Consistent with Part 4.2, annual samples may be used to also satisfy any single remaining quarterly benchmark monitoring requirement applicable to your discharge. | | | |
| | | 1) If monitoring results indicate the monitored pollutant is not detected in your discharge, or is within the acceptable range for a given parameter for the waterbody to meet its designated use (e.g., pH or temperature),17 you may discontinue monitoring for that pollutant for the remainder of your permit coverage. | | | |
| | | 2) If the monitoring results indicate that the monitored pollutant is detected in your discharge, or is outside the acceptable range for a given parameter (e.g., pH or temperature) for the waterbody to meet its designated use, you must continue to monitor for the pollutant(s) annually until no longer detected, after which you may discontinue monitoring for that pollutant for the remainder of your permit coverage. | | | |
| | | iii. Exception: If sampling results in either Part 4.2.5.1.a.i or Part 4.2.5.1.a.ii above indicate the monitored pollutant is detected in your discharge, but you have determined that its presence is caused solely by natural background sources, you may discontinue monitoring for that pollutant for the duration of your permit coverage. | | | |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| | | To support a determination that the pollutant's presence is caused solely by natural background sources, you must document and maintain with your SWPPP, as required by Part 6.5: discharge, but you have determined that its presence is caused solely by natural background sources, you may discontinue monitoring for that pollutant for the duration of your permit coverage. | | | |
| | | 1) An explanation of why you believe that the presence of the pollutant of concern in your discharge is not related to the activities or materials at your facility; and | | | |
| | | 2) Data and/or studies that tie the presence of the pollutant of concern in your discharge to natural background sources in the watershed. | | | |
| | | a. Natural background pollutants include those that occur naturally as a result of native soils, and vegetation, wildlife, or ground water. Natural background pollutants do not include legacy pollutants from earlier activity on your site, or pollutants in run-on from neighboring sources that are not naturally occurring. However, you may be eligible to discontinue annual monitoring for pollutants that occur solely from these sources and should consult the applicable EPA Regional Office for related guidance. | | | |
| | | b. Discharges to impaired waters with an EPA-approved or established TMDL: For stormwater discharges to waters for which there is an EPA-approved or established TMDL, you are not required to monitor for the pollutant(s) for which the TMDL was written unless EPA informs you, upon examination of the applicable TMDL and its waste-load allocation, that you are subject to such a requirement consistent with the assumptions and findings of the applicable TMDL and its waste-load allocation. EPA's notice will include specifications on stormwater discharge monitoring parameters and frequency. If there are questions, you may consult the applicable EPA Regional Office for guidance regarding required monitoring under this Part. | | | |
| 4.2.5.2 | Exception for Inactive and Unstaffed Facilities. | The requirement for impaired waters monitoring does not apply at a facility that is inactive and unstaffed, as long as there are no industrial materials or activities exposed to stormwater. To invoke this exception, you must do the following: | NA | | No unstaffed facilities |
| | | a. Maintain a statement with your SWPPP stating that the site is inactive and unstaffed, and that there are no industrial materials or activities exposed to stormwater in accordance with the substantive requirements in 40 CFR 122.26(g) and sign and certify the statement in accordance with Appendix B, Subsection 11. | | | |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| | | b. If circumstances change and industrial materials or activities become exposed to stormwater or your facility becomes active and/or staffed, this exception no longer applies, and you must immediately begin complying with the applicable impaired waters monitoring requirements under Part 4.2.5 as if you were in your first year of permit coverage. You must indicate in a "Change NOI" form per Part 7.2 that your facility has materials or activities exposed to stormwater or has become active and/or staffed. | | | |
| | | c. If you are not qualified for this exception at the time you are authorized under this permit, but during the permit term you become qualified because your facility is inactive and unstaffed, and there are no industrial materials or activities that are exposed to stormwater, then you must notify EPA of this change on your NOI form. You may discontinue impaired waters monitoring once you have notified EPA, and prepared and signed the certification statement described above concerning your facility's qualification for this special exception. | | | |
| 4.2.6 | Additional Monitoring Required by EPA. | EPA may notify you of additional stormwater discharge monitoring requirements that EPA determines are necessary to meet the permit's effluent limitations. Any such notice will briefly state the reasons for the monitoring, locations, and parameters to be monitored, frequency and period of monitoring, sample types, and reporting requirements. | NA | | |

### B.1.5 SECTION 5 CORRECTIVE ACTIONS AND ADDITIONAL IMPLEMENTATION MEASURES

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| Part 5.1 | Corrective Action | 5.1.1 Conditions Requiring SWPPP Review and Revision to Ensure Effluent Limits are Met. When any of the following conditions occur or are detected during an inspection, monitoring or other means, or EPA or the operator of the MS4 through which you discharge informs you that any of the following conditions have occurred, you must review and revise, as appropriate, your SWPPP (e.g., sources of pollution; spill and leak procedures; non-stormwater discharges; the selection, design, installation and implementation of your stormwater control measures) so that this permit's effluent limits are met and pollutant discharges are minimized:<br>5.1.1.1 An unauthorized release or discharge (e.g., spill, leak, or discharge of non-stormwater not authorized by this or another NPDES permit to a water of the United States) occurs at your facility.<br>5.1.1.2 A discharge violates a numeric effluent limit listed in Table 2-1 and/or in your Part 8 sector-specific requirements.<br>5.1.1.3 Your stormwater control measures are not stringent enough for your stormwater discharge to be controlled as necessary such that the receiving water of the United States will meet applicable water quality standards or to meet the non-numeric effluent limits in this permit.<br>5.1.1.4 A required control measure was never installed, was installed incorrectly, or not in accordance with Parts 2 and/or 8, or is not being properly operated or maintained.<br>5.1.1.5 Whenever a visual assessment shows evidence of stormwater pollution (e.g., color, odor, floating solids, settled solids, suspended solids, foam). | Y | Review SWPPPs and exceedance records | SWPPPs updated with Change NOIs and corrective action documentation to exceedances and spills |
| | | 5.1.2 Conditions Requiring SWPPP Review to Determine if Modifications Are Necessary. If construction or a change in design, operation, or maintenance at your facility occurs that significantly changes the nature of pollutants discharged via stormwater from your facility, or significantly increases the quantity of pollutants discharged, you must review your SWPPP (e.g., sources of pollution, spill and leak procedures, non-stormwater discharges, selection, design, installation and implementation of your stormwater control measures) to determine if modifications are necessary to meet the effluent limits in this permit. | Y | Review the records and SWPPPs | SWPPPs updated annually and when changes in site conditions or control measures occur |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| | | 5.1.3 Deadlines for Corrective Actions<br>5.1.3.1 Immediate Actions. You must immediately take all reasonable steps to minimize or prevent the discharge of pollutants until you can implement a permanent solution, including cleaning up any contaminated surfaces so that the material will not discharge in subsequent storm events. In Part 5, the term "immediately" means that the day you find a condition requiring corrective action, you must take all reasonable steps to minimize or prevent the discharge of pollutants until you can implement a permanent solution. However, if you identify a problem too late in the workday to initiate corrective action, you must perform the corrective action the following workday morning. The term "all reasonable steps" means you must respond to the conditions triggering the corrective action, such as cleaning up any exposed materials that may be discharged in a storm event (e.g., through sweeping, vacuuming) or making arrangements (i.e., scheduling) for a new SCM to be installed.<br>5.1.3.2 Subsequent Actions. If additional actions are necessary beyond those implemented pursuant to Part 5.1.3.1, you must complete the corrective actions (e.g., install a new or modified control and make it operational, complete the repair) before the next storm event if possible, and within 14 calendar days from the time of discovery that the condition in Part 5.1.1 is not met. If it is infeasible to complete the corrective action within 14 calendar days, you must document why it is infeasible to complete the corrective action within the 14-day timeframe. You must also identify your schedule for completing the work, which must be done as soon as practicable after the 14-day timeframe but no longer than 45 days after discovery. If the completion of corrective action will exceed the 45-day timeframe, you may take the minimum additional time necessary to complete the corrective action, provided you notify the appropriate EPA Regional Office of your intention to exceed 45 days, your rationale for an extension, and a completion date, which you must also include in your corrective action documentation (see Part 5.3). Where your corrective actions result in changes to any of the controls or procedures documented in your SWPPP, you must modify your SWPPP accordingly within 14 calendar days of completing corrective action work.<br>These time intervals are not grace periods, but are schedules considered reasonable for documenting your findings and for making repairs and improvements. They are included in this permit to ensure that the conditions prompting the need for these repairs and improvements do not persist indefinitely. | Y | Review the records and reports | Timely reports and actions met in response to unauthorized discharges and exceedances. SWPPPs updated accordingly. |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| | | 5.1.4 Effect of Corrective Action. If the event triggering the review is a permit violation (e.g., non-compliance with an effluent limit), correcting it does not remove the original violation. Additionally, failing to take corrective action in accordance with this section is an additional permit violation. EPA may consider the appropriateness and promptness of corrective action in determining enforcement responses to permit violations. | NA | | |
| | | 5.1.5 SIDPs. If the event triggering corrective action is associated with a discharge point that had been identified as an SIDP (see Parts 3.2.4.5 and 4.1.1), your review must assess the need for corrective action for all related SIDPs. Any necessary changes to control measures that affect these other discharge points must also be made before the next storm event if possible, or as soon as practicable following that storm event. Any corrective actions must be conducted within the timeframes set forth in Part 5.1.3. | Y | Review of corrective actions where SIDPs are potentially affected | SIDPs considered when control measures are evaluated in a corrective action response. |
| Part 5.2 | Additional Implementation Measures (AIM) | If any of the following AIM triggering events in Parts 5.2.3, 5.2.4, or 5.2.5 occur, you must follow the response procedures described in those parts, called “additional implementation measures” or “AIM.” There are three AIM levels: AIM Level 1, Level 2, and Level 3. You must respond as required to different AIM levels which prescribe sequential and increasingly robust responses when a benchmark exceedance occurs. You must follow the corresponding AIM level responses and deadlines described in Parts 5.2.1, 5.2.2, and 5.2.3 unless you qualify for an exception under Part 5.2.6. | Y | Review the sampling plan, SWPPP, and database | AIM triggers are detailed and institutionalized in the SWPPPs and databases and/or recordkeeping for future triggering events. |
| | | 5.2.1 Baseline Status<br>Once you receive discharge authorization under this permit per Part 1.3, you are in a baseline status for all applicable benchmark parameters. If an AIM triggering event occurs and you have proceeded sequentially to AIM Level 1, 2 or 3, you may return directly to baseline status once the corresponding AIM-level response and conditions are met. | | | |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| | | 5.2.2 AIM Triggering Events. If an annual average exceeds an applicable benchmark threshold based on the following events, the AIM requirements have been triggered for that benchmark parameter. You must follow the corresponding AIM-level responses and deadlines described in Parts 5.2.3, 5.2.4, and 5.2.5 unless you qualify for an exception under Part 5.2.6. An annual average exceedance for a parameter can occur if:<br>5.2.2.1 The four-quarterly annual average for a parameter exceeds the benchmark threshold, or<br>5.2.2.2 Fewer than four quarterly samples are collected, but a single sample or the sum of any sample results within the sampling year exceeds the benchmark threshold by more than four times for a parameter. This result indicates an exceedance is mathematically certain (i.e., the sum of quarterly sample results to date is already more than four times the benchmark threshold). | | | |
| | | 5.2.3 AIM Level 1<br>Your status changes from baseline to AIM Level 1 if quarterly benchmark monitoring results indicate that an AIM triggering event per Part 5.2.2 has occurred, unless you qualify for an exception under Part 5.2.6. | | | |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| | | 5.2.3.1 AIM Level 1 Responses. If any of the triggering events in Part 5.2.2 occur, you must:<br>a. Review SWPPP/Stormwater Control Measures. Immediately review your SWPPP and the selection, design, installation, and implementation of your stormwater control measures to ensure the effectiveness of your existing measures and determine if modifications are necessary to meet the benchmark threshold for the applicable parameter,19 and requirements per Part 4.2.2.3, then you may discontinue monitoring for that parameter for the remainder of the permit.<br>b. Advance to AIM Level 2. Your AIM Level 1 status advances to AIM Level 2 status if you have completed AIM Level 1 responses and the continued quarterly benchmark monitoring results indicate that an AIM triggering event per Part 5.2.2 has occurred (i.e., the benchmark threshold continues to be exceeded for the same parameter(s)).<br>b. Implement Additional Measures. After reviewing your SWPPP/stormwater control measures, you must implement additional measures, considering good engineering practices, that would reasonably be expected to bring your exceedances below the parameter's benchmark threshold; or if you determine nothing further needs to be done with your stormwater control measures, you must document per Part 5.3 and include in your annual report why you expect your existing control measures to bring your exceedances below the parameter's benchmark threshold for the next 12-month period.<br>5.2.3.2 AIM Level 1 Deadlines. If any modifications to or additional control measures are necessary in response to AIM Level 1, you must implement those modifications or control measures within 14 days of receipt of laboratory results, unless doing so within 14 days is infeasible. If doing so within 14 days is infeasible, you must document per Part 5.3 why it is infeasible and implement such modifications within 45 days.<br>5.2.3.3 Continue Quarterly Benchmark Monitoring. After compliance with AIM Level 1 responses and deadlines, you must continue quarterly benchmark monitoring for the next four quarters for the parameter(s) that caused the AIM triggering event at all affected stormwater discharge points, beginning no later than the next full quarter after compliance. | | | |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| | | 5.2.3.4 AIM Level 1 Status Update. While in AIM Level 1 status, you may either:<br>a. Return to Baseline Status. Your AIM Level 1 status will return to baseline status if the AIM Level 1 responses have been met and continued quarterly benchmark monitoring results indicate that an AIM triggering event per Part 5.2.2 has not occurred after four quarters of monitoring (i.e., the benchmark threshold is no longer exceeded for the parameter(s)). You may discontinue benchmark monitoring for that parameter until monitoring resumes in year 4 of permit coverage per Part 4.2.2.3 or if you have fulfilled all benchmark monitoring requirements per Part 4.2.2.3, then you may discontinue monitoring for that parameter for the remainder of the permit.<br>b. Advance to AIM Level 2. Your AIM Level 1 status advances to AIM Level 2 status if you have completed AIM Level 1 responses and the continued quarterly benchmark monitoring results indicate that an AIM triggering event per Part 5.2.2 has occurred (i.e., the benchmark threshold continues to be exceeded for the same parameter(s)). | | | |
| | | 5.2.4 AIM Level 2<br>Your status changes from AIM Level 1 to AIM Level 2 if your continued quarterly benchmark monitoring results indicate that an AIM triggering event per Part 5.2.2 has occurred (i.e., the benchmark threshold continues to be exceeded for the parameter(s)), unless you qualify for an exception under Part 5.2.6. | | | |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| | | 5.2.4.1 AIM Level 2 Responses. If any of the events in Part 5.2.2 occur, you must review your SWPPP and implement additional pollution prevention/good housekeeping SCMs, considering good engineering practices, beyond what you did in your AIM Level 1 responses that would reasonably be expected to bring your exceedances below the parameter's benchmark threshold. Refer to the MSGP sector-specific fact sheets for recommended controls found at [https://www.epa.gov/npdes/stormwater-discharges-industrial-activities-fact-sheets-and-guidance].<br>5.2.4.2 AIM Level 2 Deadlines. You must implement additional pollution prevention/good housekeeping SCMs within 14 days of receipt of laboratory results that indicate an AIM triggering event has occurred and document per Part 5.3 how the measures will achieve benchmark thresholds. If it is feasible for you to implement a measure, but not within 14 days, you may take up to 45 days to implement such measure. You must document per Part 5.3 why it was infeasible to implement such measure in 14 days. EPA may also grant you an extension beyond 45 days, based on an appropriate demonstration by you, the operator.<br>5.2.4.3 Continue Quarterly Benchmark Monitoring. After compliance with AIM Level 2 responses and deadlines, you must continue quarterly benchmark monitoring for the next four quarters for the parameter(s) that caused the AIM triggering event at all affected discharge points, beginning no later than the next full quarter after compliance. | | | |
| | | 5.2.4.4 AIM Level 2 Status Update. While in AIM Level 2 status, you may either:<br>a. Return to Baseline Status. Your AIM Level 2 status will return to baseline status if the AIM Level 2 responses have been met and the continued quarterly benchmark monitoring results indicate that an AIM triggering event per Part 5.2.2 has not occurred after four quarters of monitoring (i.e., the benchmark threshold is no longer exceeded for the parameter(s)). You may discontinue benchmark monitoring for that parameter until monitoring resumes in year 4 of permit coverage per Part 4.2.2.3, or if you have fulfilled all benchmark monitoring requirements per Part 4.2.2.3, then you may discontinue monitoring for that parameter for the remainder of the permit.<br>b. Advance to AIM Level 3. Your AIM Level 2 status advances to AIM Level 3 status if you have completed the AIM Level 2 responses and the continued quarterly benchmark monitoring results indicate that an AIM triggering event per Part 5.2.2 has occurred (i.e., the benchmark threshold continues to be exceeded for the same parameter(s)). | | | |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| | | 5.2.5 AIM Level 3<br>Your status changes from AIM Level 2 to AIM Level 3 if your continued quarterly benchmark monitoring results indicate that an AIM triggering event per Part 5.2.2 has occurred (i.e., the benchmark threshold continues to be exceeded for the parameter(s)), unless you qualify for an exception per Part 5.2.6. | | | |
| | | 5.2.5.1 AIM Level 3 Responses. if any of the triggering events in Part 5.2.2 occur, you must install structural source controls (e.g., permanent controls such as permanent cover, berms, and secondary containment), and/or treatment controls (e.g., sand filters, hydrodynamic separators, oil-water separators, retention ponds, and infiltration structures), except as provided in Part 5.2.6 (AIM Exceptions). The controls or treatment technologies or treatment train you install should be appropriate for the pollutants that triggered AIM Level 3 and should be more rigorous than the pollution prevention/good housekeeping-type stormwater control measures implemented under AIM Tier 2 in Part 5.2.4. You must select controls with pollutant removal efficiencies that are sufficient to bring your exceedances below the benchmark threshold. You must install such stormwater control measures for the discharge point(s) in question and for SIDPs, unless you individually monitor those SIDPs and demonstrate that AIM Level 3 requirements are not triggered at those discharge points.<br>5.2.5.2 AIM Level 3 Deadlines. You must identify the schedule for installing the appropriate structural source and/or treatment stormwater control measures within 14 days and install such measures within 60 days. If is not feasible within 60 days, you may take up to 90 days to install such measures, documenting in your SWPPP per Part 5.3 why it is infeasible to install the measure within 60 days. EPA may also grant you an extension beyond 90 days, based on an appropriate demonstration by you, the operator.<br>5.2.5.3 Continue Quarterly Benchmark Monitoring. After compliance with AIM Level 3 responses and deadlines, you must continue quarterly benchmark monitoring for the next four quarters for the parameter(s) that caused the AIM triggering event at all affected discharge points, beginning no later than the next full quarter after compliance. | | | |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| | | 5.2.5.4 AIM Level 3 Status Update. While in AIM Level 3 status, you may either:<br>a. Return to Baseline Status. Your AIM Level 3 status will return to baseline status if the AIM Level 3 response(s) have been met and the continued quarterly benchmark monitoring results indicate that an AIM triggering event per Part 5.2.2 has not occurred after four quarters of monitoring (i.e., the benchmark threshold is no longer exceeded for the parameter(s)). You may discontinue benchmark monitoring for that parameter until monitoring resumes in what would be year 4 of permit coverage per Part 4.2.2.3, or if you have fulfilled all benchmark monitoring requirements per Part 4.2.2.3, then you may discontinue monitoring for that parameter for the remainder of the permit.<br>b. Continue in AIM Level 3. Your AIM Level 3 status will remain at Level 3 if you have completed the AIM Level 3 responses and the continued quarterly benchmark monitoring results indicate that an AIM triggering event per Part 5.2.2 has occurred (i.e., the benchmark threshold continues to be exceeded for the same parameter(s)). You must continue quarterly benchmark monitoring for the next four quarters for the parameter(s) that caused the AIM triggering event at all affected discharge points, beginning no later than the next full quarter after compliance. If you continue to exceed the benchmark threshold for the same parameter even after compliance with AIM Level 3, EPA may require you to apply for an individual permit. | | | |
| | | 5.2.6 AIM Exceptions<br>Following the occurrence of an AIM triggering event per Part 5.2.2, at any point or tier level of AIM and following four quarters of benchmark monitoring (or sooner if the exceedance is triggered by less than four quarters of data), you may qualify for an exception below from AIM requirements and continued benchmark monitoring. Regardless if you qualify for and claim an exception, you must still review your SCMs, SWPPP, and other on-site activities to determine if actions or modifications are necessary or appropriate in light of your benchmark exceedance(s). If claiming an AIM exception, you must follow the requirements to demonstrate that you qualify for the exception as provided below. If you qualify for an exception, you are not required to comply with the AIM responses or the continuation of quarterly benchmark monitoring for any parameters for which you can demonstrate that the benchmark exceedance is: | NA | | |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| | | 5.2.6.1 Solely Attributable to Natural Background Pollutant Levels: You must demonstrate that the benchmark exceedance is solely attributable to the presence of that pollutant in natural background sources, provided that all the following conditions are met and you submit your analysis and documentation to the applicable EPA Regional Office upon request:<br>a. The four-quarter average concentration of your benchmark monitoring results (or fewer than four-quarters of data that trigger an exceedance) is less than or equal to the concentration of that pollutant in the natural background; and<br>b. You document and maintain with your SWPPP, as required in Part 6.5.9, your supporting rationale for concluding that benchmark exceedances are in fact attributable solely to natural background pollutant levels. You must include in your supporting rationale any data previously collected by you or others (including literature studies) that describe the levels of natural background pollutants in your stormwater discharge. Natural background pollutants are those substances that are naturally occurring in soils or ground water. Natural background pollutants do not include legacy pollutants from earlier activity on your site, or pollutants in run-on from neighboring sources which are not naturally occurring, such as other industrial facilities or roadways. | NA | | No demonstration, as of yet, to attribute background exceedances to natural background sources. |
| | | 5.2.6.2 Due to Run-On: You must demonstrate and obtain EPA agreement that run-on from a neighboring source (e.g., a source external to your facility) is the cause of the exceedance, provided that all the following conditions are met and you submit your analysis and documentation to the applicable EPA Regional Office for concurrence:<br>a. After reviewing and revising your SWPPP, as appropriate, you should notify the other facility or entity contributing run-on to your discharges and request that they abate their pollutant contribution.<br>b. If the other facility or entity fails to take action to address their discharges or sources of pollutants, you should contact your applicable EPA Regional Office. | NA | Review the records, monitoring reports, and SWPPPs | No demonstration, as of yet, to attribute background exceedances to run-on. |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| | | 5.2.6.3 Due to an abnormal event: You must immediately document per Part 5.3 that the AIM triggering event was abnormal, a description explaining what caused the abnormal event, and how any measures taken within 14 days of such event will prevent a reoccurrence of the exceedance. You must also collect a sample during the next measurable storm event to demonstrate that the result is less than the benchmark threshold, in which case you do not trigger any AIM requirements based on the abnormal event. You must report the result of this sample in NeT-DMR in lieu of the result from the sample that caused the AIM triggering event. You may avail yourself of the "abnormal" demonstration opportunity at any AIM Level, one time per parameter, and one time per discharge point, which shall include SIDPs, provided you qualify for the exception. | NA | Review the records, monitoring reports, and SWPPPs | No demonstration, as of yet, to attribute background exceedances to abnormal events. |
| | | 5.2.6.4 For Aluminum and Copper benchmark parameters only:<br>Demonstrated to not result in an exceedance of your facility-specific value using the national recommended water quality criteria in-lieu of the applicable MSGP benchmark threshold:<br>To be eligible for the exception, you must demonstrate to EPA that your stormwater discharge(s) that exceeded the applicable nationally representative MSGP benchmark threshold would not result in an exceedance of a derived facility-specific value. The demonstration to EPA, which will be made publicly available, must meet the minimum elements below in order to be considered for and approved by the applicable EPA Regional Office. If you exceed the MSGP benchmark threshold for aluminum or copper, you must still comply with any applicable AIM requirements and additional benchmark monitoring until the demonstration is made to and approved by the applicable EPA Regional Office. In this case, EPA suggests that samples collected for any continued benchmark monitoring also be analyzed for the required input parameters for each model for efficiency. If you are an existing operator and you anticipate an exceedance of the MSGP benchmark(s) based on previous monitoring data and expect to utilize this exception(s), EPA recommends you begin the required data collection in your first year of permit coverage (refer for details under the permit) | NA | | No demonstration, as of yet, to determine a site-specific water quality criteria for aluminum. Where aluminum is a benchmark parameter, it is also an impaired waters parameter. Copper is not a benchmark parameter for LANL facilities. |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| | | 5.2.6.5 Demonstrated to not result in any exceedance of water quality standards: You must demonstrate to EPA within 30 days of the AIM triggering event that the triggering event does not result in any exceedance of water quality standards. If it is not feasible to complete this demonstration within 30 days, you may take up to 90 days, documenting in your SWPPP why it is infeasible to complete the demonstration within 30 days. EPA may also grant you an extension beyond 90 days, based on an appropriate demonstration by you, the operator. The demonstration to EPA, which will be made publicly available, must include the following minimum elements in order to be considered for approval by the EPA Regional Office:<br>a. the water quality standards applicable to the receiving water;<br>b. the average flow rate of the stormwater discharge;<br>c. the average instream flow rates of the receiving water immediately upstream and downstream of the discharge point;<br>d. the ambient concentration of the parameter(s) of concern in the receiving water immediately upstream and downstream of the discharge point demonstrated by full-storm composite sampling;<br>e. the concentration of the parameter(s) of concern in the stormwater discharge demonstrated by full-storm, flow-weighted composite sampling;<br>f. any relevant dilution factors applicable to the discharge; and<br>g. the hardness of the receiving water. | NA | | No demonstration, as of yet, has been necessary because no AIM events have occurred since implementation of the 2021 MSGP. |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| | | Timeframe of EPA Review of Your Submitted Demonstration: EPA will review and either approve or disapprove of such demonstration within 90 days of receipt (EPA may take up to 180 days upon notice to you before the 90th day that EPA needs additional time).<br>• EPA Approval of Your Submitted Demonstration. If EPA approves such demonstration within this timeframe, you have met the requirements for this exception, and you do not have to comply with the corresponding AIM requirements and continued benchmark monitoring.<br>• EPA Disapproval of Your Submitted Demonstration. If EPA disapproves such demonstration within this timeframe, you must comply with the corresponding AIM requirements and continued benchmark monitoring, as required. Compliance with the AIM requirements would begin from the date EPA notifies you of the disapproval unless you submit a Notice of Dispute to the applicable EPA Regional Office in Part 7 within 30 days of EPA's disapproval.<br>• EPA Does Not Provide Response Related to Your Submitted Demonstration. If EPA does not provide a response on the demonstration within this timeframe, you may submit to the EPA Regional Office in Part 7 a Notice of Dispute.<br>• Operator Submittal of Notice of Dispute. You may submit all relevant materials, including support for your demonstration and all notices and responses to the Water Division Director for the applicable EPA Region to review within 30 days of EPA's disapproval or after 90 days (or 180 days if EPA has provided notice that it needs more time) of not receiving a response from EPA.<br>• EPA Review of Notice of Dispute. EPA will send you a response within 30 days of receipt of the Notice of Dispute. Time for action by you, the operator, upon disapproval shall be tolled during the period from filing of the Notice of Dispute until the decision on the Notice of Dispute is issued by the Water Division Director for the applicable EPA Region. | | | |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| Part 5.3 | Corrective Action and AIM Documentation | 5.3.1 Documentation within 24 Hours. You must document the existence of any of the conditions listed in Parts 5.1.1, 5.2.3, 5.2.4, or 5.2.5 within 24 hours of becoming aware of such condition. You are not required to submit this documentation to EPA, unless specifically required or requested to do so. However, you must summarize your findings in the annual report per Part 7.4. Include the following information in your documentation: | Y | Review the records, monitoring reports, and SWPPPs | While no AIM-related corrective actions have been triggered as of yet, deadlines and reporting requirements for spills, releases, and other triggers were met, SWPPPs updated accordingly, and corrective actions implemented in a timely manner. All annual reports provide summaries per permit requirements. |
| | | 5.3.2 Description of the condition or event triggering the need for corrective action review and/or AIM response. For any spills or leaks, include the following information: a description of the incident including material, date/time, amount, location, and reason for spill, and any leaks, spills or other releases that resulted in discharges of pollutants to waters of United States, through stormwater or otherwise;<br>5.3.2.1 Date the condition/triggering event was identified;<br>5.3.2.2 Description of immediate actions taken pursuant to Part 5.1.3.1 to minimize or prevent the discharge of pollutants. For any spills or leaks, include response actions, the date/time clean-up completed, notifications made, and staff involved. Also include any measures taken to prevent the reoccurrence of such releases (see Part 2.1.2.4); and<br>5.3.2.3 A statement, signed and certified in accordance with Appendix B, Subsection 11. | | | |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| | | 5.3.3 Documentation within 14 Days. You must also document the corrective actions and/or AIM responses you took or will take as a result of the conditions listed in Part 5.1.1, 5.2.3, 5.2.4, and/or 5.2.5 within 14 days from the time of discovery of any of those conditions/triggering events. Provide the dates when you initiated and completed (or expect to complete) each corrective action and/or AIM response. If infeasible to complete the necessary corrective actions and/or AIM responses within the specified timeframe, per Parts 5.1.1, 5.2.3, 5.2.4, or 5.2.5, you must document your rationale and schedule for installing the controls and making them operational as soon as practicable after the specified timeframe. If you notified EPA regarding an allowed extension of the specified timeframe, you must document your rationale for an extension. Include any additional information and/or rationale that is required and/or applicable to the specified corrective action and/or AIM response in Part 5. You are not required to submit this documentation to EPA, unless specifically required or requested to do so. However, you must summarize your corrective actions and/or AIM responses in the Annual Report per Part 7.4. | | | |

### B.1.6 SECTION 6 STORMWATER POLLUTION PREVENTION PLAN

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| Part 6.1 | Person(s) Responsible for Preparing the SWPPP | You shall prepare the SWPPP in accordance with good engineering practices and to industry standards. The SWPPP may be developed by either a person on your staff or a third party you hire, but it must be developed by a "qualified person" and must be certified per the signature requirements in Part 6.2.7. If EPA concludes that the SWPPP is not in compliance with Part 6.2 of this permit, EPA may require the SWPPP to be reviewed, amended as necessary, and certified by a Professional Engineer, or for Sector G, H or J, by a Professional Geologist, with the education and experience necessary to prepare an adequate SWPPP.<br>Note: A "qualified person," as defined in Appendix A, is a person knowledgeable in the principles and practices of industrial stormwater controls and pollution prevention, and possesses the education and ability to assess conditions at the industrial facility that could impact stormwater quality, and the education and ability to assess the effectiveness of | Y | Review the SWPPPs | Authors and signatories include members of both the environmental compliance team and the operations team of the facility. |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| | | stormwater controls selected and installed to meet the requirements of the permit. | | | |
| Part 6.2 | Required Contents of Your SWPPP | To be covered under this permit, your SWPPP must contain all of the following elements:<br>• Stormwater pollution prevention team (Part 6.2.1);<br>• Site description (Part 6.2.2);<br>• Summary of potential pollutant sources (Part 6.2.3);<br>• Description of stormwater control measures (Part 6.2.4);<br>• Schedules and procedures (Part 6.2.5);<br>• Documentation to support eligibility pertaining to other federal laws (Part 6.2.6); and<br>• Signature requirements (Part 6.2.7).<br>Where your SWPPP refers to procedures in other facility documents, such as a Spill Prevention, Control and Countermeasure (SPCC) Plan or an Environmental Management System (EMS), copies of the relevant portions of those documents must be kept with your SWPPP. | Y | Review the records and SWPPPs | See below |
| | | 6.2.1 Stormwater Pollution Prevention Team. You must identify the staff members (by name or title) that comprise the facility's stormwater pollution prevention team as well as their individual responsibilities. Your stormwater pollution prevention team is responsible for overseeing development of the SWPPP, any modifications to it, and for implementing and maintaining control measures and taking corrective actions and/or AIM responses, when required. Each member of the stormwater pollution prevention team must have ready access to either an electronic or paper copy of applicable portions of this permit, the most updated copy of your SWPPP, and other relevant documents or information that must be kept with the SWPPP. | Y | Review the SWPPPs | SWPPPs identify team members |
| | | 6.2.2 Site Description. Your SWPPP must include the following:<br>6.2.2.1 Activities at the facility. Provide a description of the nature of the industrial activities at your facility.<br>6.2.2.2 General location map. Provide a general location map (e.g., U.S. Geological Survey [USGS] quadrangle map) with enough detail to identify the location of your facility and all receiving waters for your stormwater discharges.<br>6.2.2.3 Site map. Provide a map showing:<br>a. Boundaries of the property and the size of the property in acres;<br>b. Location and extent of significant structures and impervious surfaces;<br>c. Directions of stormwater flow (use arrows), including flows with a significant potential to cause soil erosion;<br>d. Locations of all stormwater control measures; | Y | Review the SWPPPs | All SWPPPs have all the relevant components. |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| | | e. Locations of all receiving waters, including wetlands, in the immediate vicinity of your facility. Indicate which waterbodies are listed as impaired and which are identified by your state, tribe, or EPA as Tier 2, Tier 2.5, or Tier 3 waters;<br>f. Locations of all stormwater conveyances including ditches, pipes, and swales;<br>g. Locations of potential pollutant sources identified under Part 6.2.3.2;<br>h. Locations where significant spills or leaks identified under Part 6.2.3.3 have occurred;<br>i. Locations of all stormwater monitoring points;<br>j. Locations of stormwater inlets and discharge points, with a unique identification code for each discharge point (e.g., 001, 002), indicating if you are treating one or more discharge points as "substantially identical" under Parts 3.2.4.5, 6.2.5.3, and 4.1.1, and an approximate outline of the areas draining to each discharge point;<br>k. If applicable, MS4s and where your stormwater discharges to them;<br>l. Areas of ESA-designated critical habitat for endangered or threatened species, if applicable.<br>m. Locations of the following activities where such activities are exposed to precipitation:<br>ii. fueling stations;<br>iii. vehicle and equipment maintenance and/or cleaning areas;<br>iv. loading/unloading areas;<br>v. locations used for the treatment, storage, or disposal of wastes;<br>vi. liquid storage tanks;<br>vii. processing and storage areas;<br>viii. immediate access roads and rail lines used or traveled by carriers of raw materials, manufactured products, waste material, or by-products used or created by the facility;<br>ix. transfer areas for substances in bulk;<br>x. machinery;<br>xi. locations and sources of run-on to your site from adjacent property that contains significant quantities of pollutants. | | | |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| | | 6.2.3 Summary of Potential Pollutant Sources. You must describe in the SWPPP areas at your facility where industrial materials or activities are exposed to stormwater or from which authorized non-stormwater discharges originate. Industrial materials or activities include but are not limited to: material handling equipment or activities; industrial machinery; raw materials; industrial production and processes; and intermediate products, by-products, final products, and waste products. Material handling activities include, but are not limited to: the storage, loading and unloading, transportation, disposal, or conveyance of any raw material, intermediate product, final product or waste product. For structures located in areas of industrial activity, you must be aware that the structures themselves are potential sources of pollutants. This could occur, for example, when metals such as aluminum or copper are leached from the structures as a result of acid rain. For each area identified, the description must include: | Y | Review the SWPPPs | All SWPPPs have a discussion on potential pollutant sources |
| | | 6.2.3.1 Activities in the Area. A list of the industrial activities exposed to stormwater (e.g., material storage; equipment fueling, maintenance, and cleaning; cutting steel beams).<br>6.2.3.2 Pollutants. A list of the pollutant(s) or pollutant constituents (e.g., crankcase oil, zinc, sulfuric acid, cleaning solvents) associated with each identified activity, which could be exposed to rainfall or snowmelt and could be discharged from your facility. The pollutant list must include all significant materials that have been handled, treated, stored or disposed, and that have been exposed to stormwater in the three years prior to the date you prepare or amend your SWPPP.<br>6.2.3.3 Spills and Leaks. You must document where potential spills and leaks could occur that could contribute pollutants to stormwater discharges, and the corresponding discharge point(s) that would be affected by such spills and leaks. You must document all significant spills and leaks of oil or toxic or hazardous substances that actually occurred at exposed areas, or that drained to a stormwater conveyance, in the three years prior to the date you prepare or amend your SWPPP. | | | |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| | | 6.2.3.4 Unauthorized Non-Stormwater Discharges Evaluation. By the end of the first year of your permit coverage under this permit, you must inspect and document all discharge points at your facility as part of the SWPPP. If it is infeasible to complete the evaluation within the first year of permit coverage, you must document in your SWPPP why this is the case and identify the schedule by which you expect to complete the evaluation. Documentation of your evaluation must include:<br>a. The date of the evaluation;<br>b. A description of the evaluation criteria used;<br>c. A list of the discharge points or onsite drainage points that were directly observed during the evaluation; and<br>d. If there are any unauthorized non-stormwater discharges (see Part 1.2.2 for the exclusive list of authorized non-stormwater discharges under this permit) you must immediately take action(s), such as implementing control measures, to eliminate those discharges or seek an individual NPDES wastewater permit and document that you obtained the permit (for example, a floor drain was sealed, a sink drain was re-routed to sanitary, or an NPDES permit application was submitted for an unauthorized cooling water discharge).<br>e. An explanation of everything you did to immediately eliminate the unauthorized discharge per Part 5 Corrective Actions. | | | |
| | | 6.2.3.5 Salt Storage. You must document the location of any storage piles containing salt used for deicing or other commercial or industrial purposes. | | | |
| | | 6.2.3.6 Sampling Data. Existing permitted facilities must summarize all stormwater discharge sampling data collected at the facility during the previous permit term. The summary shall include a narrative description (and may include data tables/figures) that adequately summarizes the collected sampling data to support identification of potential pollution sources at your facility. New dischargers and new sources must provide a summary of any available stormwater data they may have. | | | |
| | | 6.2.4 Description of Stormwater Control Measures to Meet Technology-Based and Water Quality-Based Effluent Limits. You must document the location and type of stormwater control measures you have specifically chosen and/or designed to comply with: | Y | Review the records and SWPPPs | All SWPPPs have the required descriptions of control measures. |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| | | 6.2.4.1 Part 2.1.2: Non-numeric technology-based effluent limits;<br>6.2.4.2 Parts 2.1.3 and 8: Applicable numeric effluent limitations guidelines-based limits;<br>6.2.4.3 Part 2.2: Water quality-based effluent limits;<br>6.2.4.4 Part 2.3: Any additional measures that formed the basis of eligibility regarding ESA-listed threatened and endangered species or their critical habitat, NHPA historic properties, and/or federal CERCLA Site requirements;<br>6.2.4.5 Parts 8 and 9: Applicable effluent limits;<br>6.2.4.6 Regarding your control measures, you must also document, as appropriate:<br>a. How you addressed the selection and design considerations in Part 2.1.1;<br>b. How they address the pollutant sources identified in Part6.2.3.<br>Effluent limit requirements in Part 2.1.2 that do not involve the site-specific selection of a stormwater control measure or are specific activity requirements (e.g., “cleaning catch basins when the depth of debris reaches two-thirds (2/3) of the sump depth, or in line with manufacturer specifications, whichever is lower, and keeping the debris surface at least six inches below the lowest outlet pipe”) are marked with an asterisk (*). For the requirements marked with an asterisk, you may include extra information, or you may just “copy-and-paste” these effluent limits word-for-word into your SWPPP without providing additional documentation. | | | |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| | | 6.2.5 Schedules and Procedures<br>6.2.5.1 Pertaining to Stormwater Control Measures Used to Comply with the Effluent Limits in Part 2. You must document the following in your SWPPP:<br>a. Good Housekeeping (see Part 2.1.2.2) – A schedule or the convention used for determining when pickup and disposal of waste materials occurs. Also provide a schedule for routine inspections for leaks and conditions of drums, tanks and containers.<br>b. Maintenance (see Part 2.1.2.3) – Preventative maintenance procedures, including regular inspections, testing, maintenance and repair of all stormwater control measures to avoid situations that may result in leaks, spills, and other releases, and any back-up practices in place should a storm event resulting in a stormwater discharge occur while a control measure is off-line. The SWPPP shall include the schedule or frequency for maintaining all control measures used to comply with the effluent limits in Part 2;<br>c. Spill Prevention and Response Procedures (see Part 2.1.2.4) – Procedures for preventing and responding to spills and leaks, including notification procedures. For preventing spills, include in your SWPPP the stormwater control measures for material handling and storage, and the procedures for preventing spills that can contaminate stormwater. Also specify cleanup equipment, procedures and spill logs, as appropriate, in the event of spills. You may reference the existence of other plans for SPCC developed for the facility under section 311 of the CWA or BMP programs otherwise required by an NPDES permit for the facility, provided that you keep a copy of that other plan onsite and make it available for review consistent with Part 6.4;<br>d. Erosion and Sediment Controls (see Part 2.1.2.5) – If you use polymers and/or other chemical treatments as part of your erosion and sediment controls, you must identify the polymers and/or chemicals used and the purpose;<br>e. Employee Training (see Part 2.1.2.8) – The elements of your employee training plan shall include all, but not necessarily limited to, the requirements set forth in Part 2.1.2.8, and also the following:<br>ii. The content of the training;<br>iii. The frequency/schedule of training for employees who work in areas where industrial materials or activities are exposed to stormwater, or who are responsible for implementing activities necessary to meet the conditions of this permit;<br>iv. A log of the dates on which specific employees received training. | Y | Review the SWPPPs | SWPPPs include all relevant procedures and training records and documentation |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| | | 6.2.5.2 Pertaining to Inspections and Assessments. You must document in your SWPPP your procedures for performing, as appropriate, the types of inspections specified by this permit, including:<br>a. Routine facility inspections (see Part 3.1)and;<br>b. Quarterly visual assessment of stormwater discharges (see Part 3.2).<br>For each type of inspection performed, your SWPPP must identify:<br>a. Person(s) or positions of person(s) responsible for the inspection;<br>b. Schedules for conducting inspections, including tentative schedule for facilities in climates with irregular stormwater discharges (see Part 3.2.4);<br>c. Specific items to be covered by the inspection, including schedules for specific discharge points.<br>If you are invoking the exception for inactive and unstaffed facilities relating to routine facility inspections and quarterly visual assessments, you must include in your SWPPP the information to support this claim as required by Parts 3.1.5 and 3.2.4. | Y | Review the SWPPPs | SWPPPs include all relevant discussion of inspection schedules and procedures. |
| | | 6.2.5.3 Pertaining to Monitoring<br>a. Procedures for Each Type of Monitoring. You must document in your SWPPP procedures for conducting the six types of analytical stormwater discharge monitoring specified by this permit, where applicable to your facility, including:<br>i. Indicator monitoring (Part 4.2.1);<br>ii. Benchmark monitoring (Part 4.2.2);<br>iii. Effluent limitations guidelines monitoring (Part4.2.3);<br>iv. State- or tribal-specific monitoring (Part 4.2.4);<br>v. Impaired waters monitoring (Part 4.2.5);<br>vi. Other monitoring as required by EPA (Part 4.2.6).<br>b. Documentation for Each Type of Monitoring. For each type of stormwater discharge monitoring, you must document in your SWPPP:<br>i. Locations where samples are collected, including any determination that two or more discharge points are substantially identical;<br>ii. Parameters for sampling and the frequency of sampling for each parameter;<br>iii. Schedules for monitoring at your facility, including schedule for alternate monitoring periods for climates with irregular stormwater discharges (see Part 4.1.6);<br>iv. Any numeric control values (benchmark thresholds, effluent limitations guidelines, TMDL-related requirements, or other requirements) applicable to stormwater discharges from each discharge point;<br>v. Procedures (e.g., responsible staff, logistics, laboratory to be used) for gathering storm event data, as specified in Part 4.1. | Y | Review the SWPPPs | SWPPPs include all relevant discussion of monitoring parameters, procedures, schedules, locations. |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| | | c. Exception for Inactive and Unstaffed Facilities. If you are invoking the exception for inactive and unstaffed facilities for indicator monitoring, benchmark monitoring or impaired waters monitoring, you must include in your SWPPP the information to support this claim as required by Part 4.2.2.5 and 4.2.5.2. | NA | | No unstaffed facilities |
| | | d. Exception for SIDPs. You must document the following in your SWPPP if you plan to use the SIDP exception for your quarterly visual assessment requirements in Part 3.2.4 or your indicator, benchmark, or impaired waters monitoring requirements in Parts 4.2.1, 4.2.2, and 4.2.5, respectively (see also Part 4.1.1):<br>i. Location of each SIDP;<br>ii. Description of the general industrial activities conducted in the drainage area of each discharge point;<br>iii. Description of the control measures implemented in the drainage area of each discharge point;<br>iv. Description of the exposed materials located in the drainage area of each discharge point that are likely to be significant contributors of pollutants via stormwater discharges;<br>v. An estimate of the runoff coefficient of the drainage areas (low = under 40%; medium = 40 to 65%; high = above 65%);<br>vi. Why the discharge points are expected to discharge substantially identical effluents. | Y | Review the SWPPPs | All facilities with SIDPs have a SWPPP with a discussion on SIDP monitoring and assessments. |
| | | 6.2.6 Documentation to Support Eligibility Pertaining to Other Federal Laws<br>6.2.6.1 Documentation Regarding Endangered Species Act-Listed Threatened and Endangered Species and Critical Habitat Protection. You must keep with your SWPPP the documentation supporting your determination with regard to Part 1.1.4.<br>6.2.6.2 Documentation Regarding National Historic Preservation Act Historic Properties. You must keep with your SWPPP the documentation supporting your determination with regard to Part 1.1.5. | Y | Review the records | SWPPPs all have an endangered species protection plan and compliance documentation for the NHPA. |
| | | 6.2.7 Signature Requirements. You must sign and date your SWPPP in accordance with Appendix B, Subsection 11. | Y | Review the SWPPPs | SWPPPs are signed and current. SWPPPs are available to the public in the EPRR. |
| Part 6.3 | Required SWPPP Modifications | You must modify your SWPPP based on any corrective actions and deadlines required under Part 5. You must sign and date any SWPPP modifications in accordance with Appendix B, Subsection 11. | | | |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| Part 6.4 | SWPPP Availability | You must retain a complete copy of your current SWPPP required by this permit at the facility in any accessible format. A complete SWPPP includes any documents incorporated by reference and all documentation supporting your permit eligibility pursuant to Part 1.1 of this permit, as well as your signed and dated certification page. Regardless of the format, the SWPPP must be immediately available to facility employees, EPA, a state or tribe, the operator of an MS4 into which you discharge, and USFWS representatives or the National Marine Fisheries Service (NMFS) at the time of an on-site inspection.<br>Your current SWPPP or certain information from your current SWPPP described below must also be made available to the public (except any confidential business information [CBI] or restricted information [as defined in Appendix A]), but you must clearly identify those portions of the SWPPP that are being withheld from public access; to do so, you must comply with one of the following two options: | | | |
| | | 6.4.1 Making Your SWPPP Publicly Available<br>You have three options to comply with the public availability requirements for the SWPPP: attaching your SWPPP to your NOI; providing a URL of your SWPPP in your NOI; or providing SWPPP information in your NOI. To remain current for all three options, you must update your SWPPP (by updating the attachment per Part 6.4.1.1 via a Change NOI, updating your webpage per Part 6.4.1.2, or updating the SWPPP information in the NOI per Part 6.4.1.3 via a Change NOI no later than 45 days after conducting the final routine facility inspection for the year required in Part 3.1. You may switch your preferred option throughout your permit coverage, but you must update your NOI as necessary to indicate your change in option. You are not required to post any CBI or restricted information (as defined in Appendix A) (such information may be redacted), but you must clearly identify those portions of the SWPPP that are being withheld from public access. CBI may not be withheld from those staff cleared for CBI review within EPA, USFWS or NMFS.<br>6.4.1.1 Attaching Your SWPPP to your NOI: You may attach a copy of your SWPP, and any SWPPP modifications, records, and other reporting elements that must be kept with your SWPPP, to your NOI in NeT-MSGP.<br>6.4.1.2 Providing a URL of your SWPPP in your NOI: You may provide a URL in your NOI in NeT-MSGP where your SWPPP can be found, and maintain your current SWPPP at this URL. You must post any SWPPP modifications, records, and other reporting elements that must be kept with your SWPPP required for the previous year at the same URL as the main body of the SWPPP. | | | |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| | | 6.4.1.3 Providing SWPPP Information in your NOI. You may include the following information in your NOI in NeT-MSGP. Irrespective of this requirement, EPA may provide access to portions of your SWPPP to a member of the public upon request (except any CBI or restricted information [as defined in Appendix A]).<br>a. On-site industrial activities exposed to stormwater, including potential spill and leak areas (see Parts 6.2.3.1, 6.2.3.3 and 6.2.3.5);<br>b. Pollutants or pollutant constituents associated with each industrial activity exposed to stormwater that could be discharged in stormwater and/or any authorized non-stormwater discharges listed in Part 1.2.2 (see Part 6.2.3.2);<br>c. Stormwater control measures you employ to comply with the non-numeric technology-based effluent limits required in Part 2.1.2 and Part 8, and any other measures taken to comply with the requirements in Part 2.2 Water Quality-Based Effluent Limitations (see Part 6.2.4). If you use polymers and/or other chemical treatments as part of your erosion and sediment controls, you must identify the polymers and/or chemicals used and the purpose; and<br>d. Schedule for good housekeeping and maintenance (see Part 6.2.5.1)and schedule for all inspections required in Part 3 (see Part 6.2.5.2). | Y | Review the records and SWPPP | NOIs were complete and accepted by EPA as evidenced by the granting of coverage under the 2021 MSGP. |
| Part 6.5 | Additional Documentation Requirements | You are required to keep the following inspection, monitoring, and certification records with your SWPPP that together keep your records complete and up-to-date, and demonstrate your full compliance with the conditions of this permit: | Y | Review the records, monitoring reports, and SWPPPs | SWPPPs are current. |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| | | 6.5.1 A copy of the NOI submitted to EPA along with any correspondence exchanged between you and EPA specific to coverage under this permit;<br>6.5.2 A copy of the authorization email you receive from the EPA assigning your NPDES ID;<br>6.5.3 A copy of this permit (either a hard copy or an electronic copy easily available to SWPPP personnel);<br>6.5.4 Documentation of any maintenance and repairs of stormwater control measures, including the date(s) of regular maintenance, date(s) of discovery of areas in need of repair/replacement, and for repairs, date(s) that the control measure(s) returned to full function, and the justification for any extended maintenance/repair schedules (see Part 2.1.2.3);<br>6.5.5 All inspection reports, including the Routine Facility Inspection Reports (see Part 3.1.6) and Visual Assessment Documentation (see Part 3.2.3);<br>6.5.6 Description of any deviations from the schedule for visual assessments and/or monitoring, and the reason for the deviations (e.g., adverse weather or it was impracticable to collect samples within the first 30 minutes of a measurable storm event) (see Parts 3.2.4 and 4.1.5);<br>6.5.7 Corrective action documentation required per Part 5.1;<br>6.5.8 Documentation of any benchmark threshold exceedances, which AIM Level triggering event the exceedance caused, and AIM response you employed per Part 5.2, including:<br>6.5.8.1 The AIM triggering event;<br>6.5.8.2 The AIM response taken;<br>6.5.8.3 Any rationale that SWPPP/SCM changes were unnecessary;<br>6.5.8.4 Any documentation required to meet any AIM exception per Part 5.2.6.<br>6.5.9 Documentation to support any determination that pollutants of concern are not expected to be present above natural background levels if you discharge directly to impaired waters, and that such pollutants were not detected in your discharge after three years or were solely attributable to natural background sources (see Part 4.2.5.1); and<br>6.5.10 Documentation to support your claim that your facility has changed its status from active to inactive and unstaffed with respect to the requirements to conduct routine facility inspections (see Part 3.1.5), quarterly visual assessments (see Part 3.2.4.4), benchmark monitoring (see Part 4.2.2.4), and/or impaired waters monitoring (see Part 4.2.5.2). | Y | Review the records, monitoring reports, and SWPPPs | All the relevant documentation is included in the SWPPPs. |

### B.1.7 SECTION 7 REPORTING AND RECORDKEEPING

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| Part 7.1 | Electronic Reporting Requirement | You must submit all NOIs, NOTs, NECs, Annual Reports, DMRs, and other reporting information as appropriate electronically, unless the EPA Regional Office grants you a waiver based on one of the following conditions:<br>• If your headquarters is physically located in a geographic area (i.e., zip code or census tract) that is identified as under-served for broadband Internet access in the most recent report from the Federal Communications Commission; or<br>• If you have limitations regarding available computer access or computer capability.<br>Waivers are only granted for a one-time use for a single information submittal, e.g., an initial waiver for an NOI does not apply for the entire term of the permit for other forms. If you need to submit information on paper after your first waiver, you must apply for a new waiver. The EPA Regional Office may extend a wavier on a case-by-case basis.<br>If you wish to obtain a waiver from submitting a report electronically, you must submit a request to the applicable EPA Regional Office, found in Part 7.9. In that request you must document which exemption you meet, provide evidence supporting any claims, and a copy of your completed paper form. A waiver may only be considered granted once you receive written confirmation from EPA or its authorized representative. | Y | Review the records | NOIs were submitted electronically for the first time for the 2021 MSGP. The teams are prepared to submit monitoring reports and annual reports via Net-DMR |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| Part 7.2 | Submitting Information to EPA | 7.2.1 Submitting Forms via NeT-MSGP. You must submit all required information via EPA's electronic NPDES eReporting tool (NeT), unless the permit states otherwise or unless you have been granted a waiver per Part 7.1. You can both prepare and submit required information in NeT-MSGP using specific forms, also found in the permit's appendices. To access NeT-MSGP, go to https://cdxnodengn.epa.gov/net-msgp/action/login.<br>Information you must submit to EPA via NeT-MSGP:<br>• NOI (Part 1.3);<br>• Change NOI (Part 1.3.4);<br>• NEC (Part 1.5);<br>• NOT (Part 1.4); and<br>• Annual Report (Part 7.4).<br>Note: You must submit Discharge Monitoring Reports (see Part 7.3) electronically using Net-DMR.<br>If the applicable EPA Regional Office grants you a waiver from electronic reporting, you must use the required forms found in the Appendices.<br>7.2.2 Other Information Required to be Submitted. Information required to be submitted to the applicable EPA Regional Office at the address in Part 7.8:<br>• New Dischargers and New Sources to Water Quality-Impaired Waters (Part 1.1.6.2);<br>• Exceedance Report for Numeric Effluent Limitations (Part 7.5); and<br>• Additional Reporting (Part 7.6) | | | |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| Part 7.3 | Reporting Monitoring Data to EPA | 7.3.1 Submitting Monitoring Data via NeT-DMR. You must submit all stormwater discharge monitoring data collected pursuant to Part 4 to EPA using Net-DMR, EPA's electronic DMR system (for more information visit: https://www.epa.gov/compliance/npdes-ereporting (unless the applicable EPA Regional Office grants you a waiver from electronic reporting, in which case you may submit a paper DMR form) no later than 30 days after you have received your complete laboratory results for all monitoring discharge points for the reporting period. Your monitoring requirements (i.e., parameters required to be monitored and sample frequency) will be prepopulated on your electronic DMR form based on the information you reported on your NOI form through the NeT-MSGP. Accordingly, you must certify the following changes to your monitoring frequency to EPA by submitting a Change NOI in NeT-MSGP, unless EPA has completed the development of planned features in the electronic systems to process submitted monitoring results to automatically turn monitoring on/off as applicable, which will trigger changes to your monitoring requirements in Net-DMR:<br>7.3.1.1 All benchmark monitoring requirements have been fulfilled for the permit term;<br>7.3.1.2 All impaired waters monitoring requirements have been fulfilled for the permit term;<br>7.3.1.3 Benchmark monitoring requirements no longer apply because the EPA Regional Office has concurred with your assessment that run-on from a neighboring source is the cause of the exceedance;<br>7.3.1.4 Benchmark and/or impaired monitoring requirements no longer apply because your facility is inactive and unstaffed;<br>7.3.1.5 Benchmark and/or impaired monitoring requirements now apply because your facility has changed from inactive and unstaffed to active and staffed;<br>7.3.1.6 For Sector G2 only: Discharges from waste rock and overburden piles have exceeded benchmark thresholds;<br>7.3.1.7 A numeric effluent limitation guideline has been exceeded;<br>7.3.1.8 A numeric effluent limitation guideline exceedance is back in compliance. | | | |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| | | 7.3.2 When You Can Discontinue Submission of Monitoring Data. Once you have completely fulfilled applicable monitoring requirements, you are no longer required to report monitoring results using Net-DMR. If you have only partially fulfilled your benchmark monitoring and/or impaired waters monitoring requirements (e.g., your four quarterly average is below the benchmark for some, but not all, parameters; you did not detect some, but not all, impairment pollutants), you must continue to report your results in Net-DMR for the remaining monitoring requirements. If the EPA Regional Office grants you a waiver per Part 7.1, you must submit paper reporting forms by the same deadline.<br>7.3.3 State or Tribal Required Monitoring Data. See Part 9 for specific reporting requirements applicable to individual states or tribes.<br>7.3.4 Submission Deadline for Indicator and Benchmark Monitoring Data. For both indicator and benchmark monitoring, you are required to submit sampling results to EPA no later than 30 days after receiving your complete laboratory results for all monitored discharge points for each monitoring period that you are required to collect samples, per Part 4.2.1. and Part 4.2.2. If you collect samples during multiple storm events in a single quarter (e.g., due to adverse weather conditions, climates with irregular stormwater discharges, or areas subject to snow), you are required to submit all sampling results for each storm event to EPA within 30 days of receiving all laboratory results for the event. Or, for any of your monitored discharge points that did not have a discharge within the reporting period, using Net-DMR, you must report that no discharges occurred for that discharge point no later than 30 days after the end of the reporting period. | Y | Review the records and monitoring reports | Monitoring data has been submitted in the past within required deadlines. LANL is prepared to continue meeting the reporting deadlines under the new permit. |
| Part 7.4 | Annual Report | You must submit an annual report to EPA via NeT-MSGP, per Part 7.2, by January 30th for each year of permit coverage containing information generated from the past calendar year. You must include the following information in the annual report: | Y | Review the records | Annual reports in the past were complete. LANL is prepared to continue meeting |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| | | 7.4.1 A summary of your past year's routine facility inspection documentation required (Part 3.1.6). In addition, if you are an operator of an airport facility (Sector S) that is subject to the airport effluent limitations guidelines and are complying with the Part 8.S.8.1 effluent limitation through the use of non-urea-containing deicers, provide a statement certifying that you do not use pavement deicers containing urea. (Note: Operators of airport facilities that are complying with Part 8.S.8.1 by meeting the numeric effluent limitation for ammonia do not need to include this statement.)<br>7.4.2 A summary of your past year's visual assessment documentation (see Part 3.2.3);<br>7.4.3 A summary of your past year's corrective action and any required AIM documentation (see Part 5.3). If you have not completed required corrective action or AIM responses at the time you submit your annual report, you must describe the status of any outstanding corrective action(s) or AIM responses. Also describe any incidents of noncompliance in the past year or currently ongoing, or if none, provide a statement that you are in compliance with the permit.<br>Your Annual Report must also include a statement, signed and certified in accordance with Appendix B, Subsection 11. | | | required documentation in the annual reports. |
| Part 7.5 | Numeric Effluent Limitations Exceedance Report | If follow-up monitoring per Part 4.2.3.3 exceeds a numeric effluent limit, you must submit an Exceedance Report to EPA no later than 30 days after you have received your laboratory results. Send the Exceedance Report to the applicable EPA Regional Office listed in Part 7.8 and report the monitoring data through Net-DMR. Your report must include the following: | Y | Review the records and monitoring reports | Exceedance reports in the past have been reported appropriately. |
| | | 7.5.1 NPDES ID;<br>7.5.2 Facility name, physical address and location;<br>7.5.3 Name of receiving water;<br>7.5.4 Monitoring data from this and the preceding monitoring event(s);<br>7.5.5 An explanation of the situation, including what you have done and intend to do (should your corrective actions not yet be complete) to correct the violation;<br>7.5.6 An appropriate contact name and telephone number. | | | |
| Part 7.6 | Additional Standard Recordkeeping and Reporting Requirements | In addition to the reporting requirements stipulated in Part 7, you are also subject to the standard permit reporting provisions of Appendix B, Subsection 12. You must submit the following reports to the applicable EPA Regional Office listed in Part 7.8, as applicable. If you discharge through an MS4, you must also submit these reports to the MS4 operator (identified pursuant to Part 6.2.2). | Y | Review the records | Previous noncompliance and changes to control measures and schedules have been reported to EPA as required. No instances |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| | | 7.6.1 24-hour reporting (see Appendix B, Subsection 12.F) – You must report any noncompliance which may endanger health or the environment. Any information must be provided orally within 24 hours from the time you become aware of the circumstances;<br>7.6.2 5-day follow-up reporting to the 24-hour reporting (see Appendix B, Subsection 12.F) – A written submission must also be provided within five days of the time you become aware of the circumstances;<br>7.6.3 Reportable quantity spills (see Part 2.1.2.4) – You must provide notification, as required under Part 2.1.2.4, as soon as you have knowledge of a leak, spill, or other release containing a hazardous substance or oil in an amount equal to or in excess of a reportable quantity;<br>7.6.4 Planned changes (see Appendix B, Subsection 12.A) – You must give notice to EPA promptly, no fewer than 30 days prior to making any planned physical alterations or additions to the permitted facility that qualify the facility as a new source or that could significantly change the nature or significantly increase the quantity of pollutants discharged;<br>7.6.5 Anticipated noncompliance (see Appendix B, Subsection 12.B) – You must give advance notice to EPA of any planned changes in the permitted facility or activity which you anticipate will result in noncompliance with permit requirements;<br>7.6.6 Compliance schedules (see Appendix B, Subsection 12.F) – Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit must be submitted no later than 14 days following each schedule date;<br>7.6.7 Other noncompliance (see Appendix B, Subsection 12.G) – You must report all instances of noncompliance not reported in your Annual Report, compliance schedule report, or 24-hour report at the time monitoring reports are submitted; and<br>7.6.8 Other information (see Appendix B, Subsection 12.H) – You must promptly submit facts or information if you become aware that you failed to submit relevant facts in your NOI, or that you submitted incorrect information in your NOI or in any report. | | | of missed deadlines or non-reporting were found. |
| Part 7.7 | Record Retention Requirements | You must retain copies of your SWPPP (including any modifications made during the term of this permit), additional documentation requirements pursuant to Part 6.5 (including documentation related to any corrective actions or AIM responses taken pursuant to Part 5), all reports and certifications required by this permit, monitoring data, and records of all data used to complete the NOI to be covered by this permit, for a period of at least | Y | Review the records | Three years of records were maintained and available for the Triennial Review |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| | | three years from the date that your coverage under this permit expires or is terminated. | | | |
| Part 7.8 | Addresses for Reports | 7.8.6 New Mexico (except see Region 9 for Navajo lands, and see Region 8 for Ute Mountain Reservation lands)<br>U.S. EPA Region 6<br>Permitting Section (WD-PE)<br>1201 Elm Street, Suite 500<br>Dallas, TX 75270 | NA | | |

### B.1.8 SECTION 8 SECTOR SPECIFIC REQUIREMENTS FOR INDUSTRIAL ACTIVITY

Only relevant subparts associated with sectors at LANL are included in this checklist.

| Permit Section | Section Title | Permit Requirement | Applicable Areas | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|---|
| Part 8.D.1 | Covered Stormwater Discharges | The requirements in Subpart D apply to stormwater discharges associated with industrial activity from Asphalt Paving and Roofing Materials and Lubricant Manufacturing facilities, as identified by the SIC Codes specified under Sector D in Table D-1 of Appendix D of the permit. | TA-60 Asphalt Batch Plant: Outfall 043 | Y | Review the records, visual inspection | Falls under asphalt paving facilities |

| Permit Section | Section Title | Permit Requirement | Applicable Areas | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|---|
| Part 8.D.2 | Limitations on Coverage | The requirements in Subpart D apply to stormwater discharges associated with industrial activity from Asphalt Paving and Roofing Materials and Lubricant Manufacturing facilities, as identified by the SIC Codes specified under Sector D in Table D-1 of Appendix D of the permit.<br>8.D.2 Limitations on Coverage<br>The following stormwater discharges associated with industrial activity are not authorized by this permit (see also Part 1.1.3):<br>8.D.2.1 Stormwater discharges from petroleum refining facilities, including those that manufacture asphalt or asphalt products, that are subject to nationally established effluent limitation guidelines found in 40 CFR part 419 (Petroleum Refining). The following stormwater discharges associated with industrial activity are not authorized under Sector D:<br>8.D.2.2 Stormwater discharges from oil recycling facilities, which are covered under Section N<br>8.D.2.3 Stormwater discharges associates with fats and oils rendering, which are covered under Section U | | | | |
| Part 8.D.3 | Indicator Monitoring | Table 8.D-1 identifies indicator monitoring that applies to the specific subsectors of Sector D. This indicator monitoring applies to both your primary industrial activity and any co-located industrial activities. | | Y | Review the Table 8.D-1, 2, and 3 | SWPPPs indicate the appropriate monitoring constituents |
| Part 8.D.4 | Sector-Specific Benchmarks | Table 8.D-2 identifies benchmarks that apply to the specific subsectors of Sector D. These benchmarks apply to both your primary industrial activity and any co-located industrial activities. | | | | |
| Part 8.D.5 | Effluent Limitations Based on Effluent Limitations Guidelines | Table 8.D-3 identifies effluent limitations that apply to the industrial activities described below. Compliance with these effluent limitations is to be determined based on discharges from these industrial activities independent of commingling with any other waste streams that may be covered under this permit. | | | | |
| Part 8.K.1 | Covered Stormwater Discharges | The requirements in Subpart K apply to stormwater discharges associated with industrial activity from Hazardous Waste Treatment, Storage, or Disposal facilities (TSDFs) as identified by the Activity Code specified under Sector K in Table D-1 of Appendix D of the permit. | TA-54 Area G:Outfalls 051, 052, 072, 070, 071, 053, 065, 066, | Y | Review the records, Visual Inspection | TA-54 Areas G and L are used for Hazardous Waste Storage |

| Permit Section | Section Title | Permit Requirement | Applicable Areas | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|---|
| Part 8.K.2 | Industrial Activities Covered by Sector K | This permit authorizes stormwater discharges associated with industrial activity from facilities that treat, store, or dispose of hazardous wastes and that are operating under interim status or a permit under subtitle C of the Resource Conservation and Recovery Act (RCRA).<br>Disposal facilities that have been properly closed and capped, and have no significant materials exposed to stormwater, are considered inactive and do not require permits. | 069, 060, 061, 062, 063, 054, 055, 056, 057, 058, 059, 067, 068<br>TA-54 Area L: Outfall 050 | | | |
| Part 8.K.3 | Limitations on Coverage | 8.K.3.1 Prohibition of Non-Stormwater Discharges (see also Part 1.1.3). The following are not authorized by this permit: leachate, gas collection condensate, drained free liquids, contaminated groundwater, laboratory-derived wastewater, and contact wash water from washing truck and railcar exteriors and surface areas that have come in direct contact with solid waste at the landfill facility. (EPA includes these prohibited non-stormwater discharges here solely as a helpful reminder to the operator that the only non-stormwater discharges authorized by this permit are at Part 1.2.2.)<br>8.K.3.2 Limitations on Coverage tor Facilities Providing Commercial TSDF Services. For facilities located in Region 6 (see Appendix C) coverage is limited to hazardous waste TSDFs that are self-generating (including occasionally accepting wastes from community household hazardous waste collection events as public service), handle only residential wastes, and/or only store hazardous wastes and do not treat or dispose of them. Coverage under this permit is not available to commercial waste disposal and treatment facilities located in Region 6 that dispose and treat on a commercial basis any produced hazardous wastes (i.e., not their own) as a service to commercial or industrial generators. | | Y | Review the records, Visual Inspection | No commingling of non-stormwater discharges observed. |
| Part 8.K.4 | Definitions | 8.K.4.1 Contaminated stormwater - stormwater that comes into direct contact with landfill wastes, the waste handling and treatment areas, or landfill wastewater as defined in Part 8,K,4.4. Some specific areas of a landfill that may produce contaminated stormwater include (but are not limited to) the open face of an active landfill with exposed waste (no cover added); the areas around | | NA | NA | |

| Permit Section | Section Title | Permit Requirement | Applicable Areas | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|---|
| | | wastewater treatment operations; trucks, equipment, or machinery that has been in direct contact with the waste; and waste dumping areas.<br>8.K.4.2 Drained free liquids - aqueous wastes drained from waste containers (e.g., drums) prior to landfilling.<br>8.K.4.3 Landfill- an area of land or an excavation in which wastes are placed for permanent disposal, but that is not a land application or land treatment unit, surface impoundment, underground injection well, waste pile, salt dome formation. salt bed formation, underground mine, or cave as these terms are defined in 40 CFR 257.2, 258.2, and 260.10.<br>8.K.4.4 Landfill wastewater - as defined in 40 CFR Part 445 (Landfills Point Source Category), all wastewater associated with, or produced by, landfilling activities except for sanitary wastewater, non-contaminated stormwater, contaminated ground water, and wastewater from recovery pumping wells. Landfill wastewater includes. but is not limited to, leachate, gas collection condensate, drained free liquids, laboratory derived wastewater, contaminated stormwater, and contact wash water from washing truck, equipment, and railcar exteriors and surface areas that have come in direct contact with solid waste at the landfill facility.<br>8.K.4.5 Leachate - liquid that has passed through or emerged from solid waste and contains soluble, suspended, or miscible materials removed from such waste.<br>8.K.4.6 Non-contaminated stormwater - stormwater that does not come into direct contact with landfill wastes, the waste handling and treatment areas, or landfill wastewater as defined in Part 8.K.4.4. Non-contaminated stormwater includes stormwater that flows off the cap, cover, intermediate cover, daily cover, and/or final cover of the landfill. | | | | |
| Part 8.K.5 | Indicator Monitoring | Table 8.K-1 identifies indicator monitoring that applies to the specific subsectors of Sector K. This indicator monitoring applies to both your primary industrial activity and any co-located industrial activities. | | Y | Review Table 8.K-1, 2 | SWPPPs indicate the appropriate monitoring constituents |

| Permit Section | Section Title | Permit Requirement | Applicable Areas | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|---|
| Part 8.K.6 | Sector-Specific Benchmarks | Table 8.K-1 identifies benchmarks that apply to the specific subsectors of Sector K. These benchmarks apply to both your primary industrial activity and any co-located industrial activities. | | | | |
| Part 8.K.7 | Effluent Limitations Based on Effluent Limitations Guidelines | Table 8.K-2 identifies effluent limitations that apply to the industrial activities described below. Compliance with these effluent limitations is to be determined based on discharges from these industrial activities independent of commingling with any other waste streams that may be covered under this permit. | | | | |
| Part 8.N.1 | Covered Stormwater Discharges | The requirements in Subpart N apply to stormwater discharges associated with industrial activity from Scrap Recycling and Waste Recycling facilities as identified by the SIC Code specified under Sector N in Table D-1 of Appendix D of the permit. | | Y | | Material Recycling Facility meets the definition for Sector N. Specifically, N2 (source-separated recycling facility). |
| Part 8.N.2 | Limitations on Coverage | Separate permit requirements have been established for recycling facilities that receive, process, and do wholesale distribution of only source-separated recyclable materials primarily from non-industrial and residential sources (i.e., common consumer products including paper, newspaper, glass, cardboard, plastic containers, and aluminum and tin cans). This includes recycling facilities commonly referred to as material recovery facilities (MRFs). See Part 8.N.3.3.<br>8.N.2.1 Prohibition of Non-Stormwater Discharges (see also Part 1.1 .3). Non-stormwater discharges from turnings containment areas are not covered by this permit (see also Part 8.N.3.1 .3). Discharges from containment areas in the absence of a storm event are prohibited unless covered by a separate NPDES permit. (EPA includes these prohibited non-stormwater discharges here solely as a helpful reminder to the operator that the only non-stormwater discharges authorized by this permit are at Part 1.2.2.) | TA-60 Material Recycling Facility: Outfall 029 | Y | Review the records, Visual Inspection | No commingling of non-stormwater discharges observed. |
| | | 8.N.3.3 Recycling Facilities (Source-Separated Materials). The following requirements are for facilities that receive only source-separated recyclables, primarily from non-industrial and residential sources.<br>8.N.3.3.1 Inbound Recyclable Material Control. Minimize the chance of accepting nonrecyclables (e.g., hazardous materials) that could be a significant source | TA-60 Material Recycling Facility: Outfall 029 | Y | Review the records, SPCC, Visual Inspection | The MRF and LANL utilize the institution's recycling website (http://int.lanl.gov/environment/p2/recycle/index/shtml) to |

| Permit Section | Section Title | Permit Requirement | Applicable Areas | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|---|
| | | of pollutants by conducting inspections of inbound materials and through the implementation of control measures such as the following, where determined to be feasible (list not exclusive): providing information and education measures to inform suppliers of recyclables about acceptable and non- acceptable materials; training drivers responsible for pickup of recycled material; clearly marking public drop-off containers regarding which materials can be accepted; rejecting nonrecyclable wastes or household hazardous wastes at the source; and establishing procedures for handling and disposal of nonrecyclable material.<br>8.N.3.3.2 Outdoor Storage. Minimize exposure of recyclables to precipitation and stormwater by using good housekeeping measures to prevent accumulation of particulate matter and fluids, particularly in high traffic<br>areas and through implementation of control measure such as the following, where determined to be feasible (list not exclusive): providing totally enclosed drop-off containers for the public; installing a sump and pump with each container pit and treat or discharge collected fluids to a sanitary sewer system; providing dikes and curbs for secondary containment (e.g., around bales of recyclable waste paper); diverting stormwater away from outside material storage areas; providing covers over containment bins, dumpsters, and roll-off boxes; and storing the equivalent of one day's volume of recyclable material indoors. | | | | educate and inform LANL personnel about acceptable recycling items for shipment to the MRF. Drivers responsible for pickup of recycled material inspect their shipment prior to transport and look for non-recyclable items, chemicals or hazardous waste, and bins containing liquids. If these items are present the shipment is rejected until<br>the generator can remediate the unacceptable condition. The MRF minimizes exposure of recyclables to precipitation and runoff by storing as many materials as practical under metal canopies or in the tension fabric Dome. |
| | | 8.N.3.3.3 Indoor Storage and Material Processing. Minimize the release of pollutants from indoor storage and processing areas through implementation of control measures such as the following, where determined to be feasible (list not exclusive): scheduling routine good housekeeping measures for all storage and processing areas; prohibiting tipping floor wash water from draining to the storm sewer system; and providing employee training on pollution prevention practices.<br>8.N.3.3.4 Vehicle and Equipment Maintenance. Minimize the discharge of pollutants in stormwater from areas where vehicle and equipment maintenance occur | TA-60 Material Recycling Facility: Outfall 029 | Y | Review the records, SPCC, Visual Inspection | Recyclable materials are stored inside Dome 60-0085 or under several metal canopies. MRF personnel perform weekly rounds where housekeeping issues are identified and promptly remediated. Vehicle/heavy equipment |

| Permit Section | Section Title | Permit Requirement | Applicable Areas | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|---|
| | | outdoors through implementation of control measures such as the following, where determined to be feasible (list not exclusive): minimizing or eliminating outdoor maintenance areas; establishing spill prevention and clean-up procedures in fueling areas; avoiding topping off fuel tanks; diverting stormwater from fueling areas; storing lubricants and hydraulic fluids indoors; and providing employee training on proper handling and storage of hydraulic fluids and lubricants. | | | | maintenance is provided by LANL's Maintenance and Site Services Division at the TA-60 Heavy Equipment Yard and not done at the MRF. Refueling of vehicle/heavy equipment is also not performed at the MRF. |
| Part 8.N.4 | Additional SWPPP Requirements | 8.N.4.1 Drainage Area Site Map. (See also Part 6.2.2) Document in your SWPPP the locations of any of the following activities or sources that may be exposed to precipitation or stormwater: scrap and waste material storage; outdoor scrap and waste processing equipment; and containment areas for turnings exposed to cutting fluids.<br>8.N.4.2 Maintenance Schedules/Procedures for Collection, Handling, and Disposal or Recycling of Residual Fluids at Scrap and Waste Recycling Facilities. If you are subject to Part 8.N.3.1.3, your SWPPP must identify any applicable maintenance schedule and the procedures to collect, handle, and dispose of or recycle residual fluids. | TA-60 Material Recycling Facility: Outfall 029 | Y | Review the records and SWPPP | Map and maintenance procedures are included in the SWPPP |
| Part 8.N.5 | Additional Inspection Requirements | 8.N.5.1 Inspections for Waste Recycling Facilities. The inspections must be performed quarterly, per Part 3.1, and include, at a minimum, all areas where waste is generated, received, stored, treated, or disposed of and that are exposed to either precipitation or stormwater. | | Y | Review the records, Visual Inspection | Operations personnel at the MRF perform weekly inspections/rounds at the facility which are focused toward keeping the site clean, spill prevention and detection, and identification of potential compliance issues. |

| Permit Section | Section Title | Permit Requirement | Applicable Areas | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|---|
| Part 8.N.6 | Indicator Monitoring | Table 8.N-1 identifies indicator monitoring that applies to the specific subsectors of Sector N. This indicator monitoring applies to both your primary industrial activity and any co-located industrial activities. | TA-60 Material Recycling Facility: Outfall 029 | Y | Review Table 8.N-1 | Indicator monitoring included in schedule |
| Part 8.N.7 | Sector-Specific Benchmarks | Table 8.N-2 identifies benchmarks that apply to Sector N. These benchmarks apply to both your primary industrial activity and any co-located industrial activities. | | Y | Review Table 8.N-2 | Only receives source-separated waste. No benchmarks apply. |
| Part 8.P.1 | Covered Stormwater Discharges | The requirements in Subpart P apply to stormwater discharges associated with industrial activity from Land Transportation and Warehousing facilities as identified by the SIC codes specified under Sector P in Table D-1 of Appendix D of the permit. | TA-54 MFW Outfall 049<br>TA-16 Stockpile Area Outfall 078<br>TA-60 Salvage/Warehouse (02) Outfalls 026, 075<br>TA-60 Heavy Equipment Yard (01) Outfall 022<br>TA-60 Roads, Sigma Mesa Outfalls 031, 032, 042, 037, 039 | Y | Review the records, Visual Inspection | Verified the applicable facilities are categorized correctly as Sector P. |
| Part 8.P.2 | Limitations on Coverage | 8.P.2.1 Prohibition Discharge (see also Parts 1.1.3 and 8.P.3.1.4). This permit does not authorize the discharge of vehicle/equipment/surface wash water, including tank cleaning operations. Such discharges must be authorized under a separate NPDES permit, discharged to a sanitary sewer in accordance with applicable industrial pretreatment requirements, or recycle on site. | | Y | Review the records, Visual Inspection | No wash water and tank cleaning operations observed. |
| Part 8.P.3 | Additional Technology-Based Effluent Limits | 8.P.3.1 Good Housekeeping. (See also Part 2.1.2.2) In addition to the Good Housekeeping requirements in Part 2.1.2.2, you must do the following.<br>8.P.3.1.1 Vehicle and Equipment Storage Areas. Minimize the potential for stormwater exposure to leaky or leak-prone vehicles/equipment awaiting maintenance through implementation of control measures such as the following, where determined to be feasible (list not exclusive): using of drip pans under vehicles/equipment; storing vehicles and equipment indoors; installing berms or dikes; using of absorbents; roofing or covering storage areas; and cleaning pavement surfaces to remove oil and grease.<br>8.P.3.1.2 Fueling Areas. Minimize contamination of stormwater from fueling areas through implementation of control measures such as the following, where determined to be feasible: covering the fueling area; using spill/overflow protection and cleanup equipment; minimizing stormwater run-on/discharges to the fueling area; using dry cleanup methods; and treating and/or recycling collected stormwater. | | Y | Visual Inspection | No exposure to stormwater to the specified materials or activities. |

| Permit Section | Section Title | Permit Requirement | Applicable Areas | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|---|
| | | 8.P.3.1.3 Material Storage Areas. Maintain all material storage vessels (e.g., for used oil/oil filters, spent solvents, paint wastes, hydraulic fluids) to prevent contamination of stormwater and plainly label them (e.g., "Used Oil," "Spent Solvents"). To minimize discharges of pollutants in stormwater from material storage areas, implement control measures such as the following, where determined to be feasible (list not exclusive): storing the materials indoors; installing berms/dikes around the areas; minimizing discharges of stormwater to the areas; using dry cleanup methods; and treating and/or recycling collected stormwater. | | | | |
| | | 8.P.3.1.4 Vehicle and Equipment Cleaning Areas. Minimize contamination of stormwater from all areas used for vehicle/equipment cleaning through implementation of control measures such as the following, where determined to be feasible (list not exclusive): performing all cleaning operations indoors; covering the cleaning operation, ensuring that all wash water drains to a proper collection system (i.e., not the stormwater drainage system); treating and/or recycling collected wash water; or other equivalent measures. Discharges of vehicle and equipment wash water, including tank cleaning operations, are not authorized by this permit for this sector.<br>8.P.3.1.5 Vehicle and Equipment Maintenance Areas. Minimize contamination of stormwater from all areas used for vehicle/equipment maintenance through implementation of control measures such as the following, where determined to be feasible (list not exclusive): performing maintenance activities indoors; using drip pans; keeping an organized inventory of materials used in the shop; draining all parts of fluid prior to disposal; prohibiting wet clean up practices if these practices would result in the discharge of pollutants to stormwater drainage systems; using dry cleanup methods; treating and/or recycling collected stormwater; and minimizing run on/discharges of stormwater to maintenance areas.<br>8.P.3.1.6 Locomotive Sanding (Loading Sand for Traction) Areas. Minimize discharges of pollutants in stormwater from locomotive sanding areas through | TA-60 Salvage/Warehouse (02) Outfalls 026, 075<br>TA-60 Heavy Equipment Yard (01) Outfall 022<br>TA-60 Roads, Sigma Mesa Outfalls 031, 032, 042, 037, 039 | Y | Visual Inspection | No exposure to stormwater to the specified materials or activities. |

| Permit Section | Section Title | Permit Requirement | Applicable Areas | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|---|
| | | implementation of control measures such as the following, where determined to be feasible (list not exclusive): covering sanding areas; minimizing stormwater run on/discharges; or appropriate sediment removal practices to minimize the offsite transport of sanding material by stormwater. | | | | |
| | | 8.P.3.2 Employee Training. (see also Part 2.1.2.8) Train personnel at least once a year and address the following activities, as applicable: used oil and spent solvent management; fueling procedures; general good housekeeping practices; proper painting procedures; and used battery management. | | Y | Review the training records | Training schedule, procedure, and curricula are covered in the SWPPP and include the appropriate items. |
| Part 8.P.4 | Additional SWPPP Requirements | 8.P.4.1 Drainage Area Site Map. (See also Part 6.2.2) identify in the SWPPP the following area of the facility and indicate whether activities occurring there may be exposed to precipitation/stormwater; fueling stations; vehicle/equipment maintenance or cleaning areas; storage areas for vehicle/equipment with actual or potential fluid leaks; loading/unloading areas; areas where treatment, storage or disposal of wastes occur; liquid storage tanks; processing areas; and storage areas.<br>8.P.4.2 (see also Part 6.2.3) Assess the potential for the following activities and facility areas to contribute pollutants to stormwater discharges: on-site waste storage or disposal; dirt/gravel parking areas for vehicles awaiting maintenance; illicit plumbing connections between shop floor drains and the stormwater conveyance system(s); and fueling areas. Describe these activities in the SWPPP.<br>8.P.4.2.1 Description of Good Housekeeping Measures. You must document in your SWPPP the good housekeeping measures you implement consistent with Part 8.P.3.<br>8.P.4.2.2 Vehicle and Equipment Wash Water Requirements. If wash water is handled in a manner that does not involve separate NPDES permitting (e.g., hauled off site), describe the disposal method and include all pertinent information (e.g., frequency, volume, destination) in your SWPPP. Discharges of vehicle and equipment wash water, including tank | TA-60 Salvage/Warehouse (02) Outfalls 026, 075<br>TA-60 Heavy Equipment Yard (01) Outfall 022<br>TA-60 Roads, Sigma Mesa Outfalls 031, 032, 042, 037, 039 | Y | Review the records and SWPPP; Visual Inspection | SWPPPs contain all required discussions. |

| Permit Section | Section Title | Permit Requirement | Applicable Areas | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|---|
| | | cleaning operations, are not authorized by this permit for this sector. | | | | |
| Part 8.P.5 | Additional Inspection Requirements | Inspect all the following areas/activities: storage areas for vehicles/equipment awaiting maintenance, fueling areas, indoor and outdoor vehicle/equipment maintenance areas, material storage areas, vehicle/equipment cleaning areas and loading/unloading areas. | TA-60 Salvage/Warehouse (02) Outfalls 026, 075 TA-60 Heavy Equipment Yard (01) Outfall 022 TA-60 Roads, Sigma Mesa Outfalls 031, 032, 042, 037, 039 TA-16 Stockpile Area Outfall 078 | Y | Visual Inspection | Operations personnel perform routine inspections/rounds at the facility which are focused toward keeping the site clean, spill prevention and detection, and identification of potential compliance issues. |
| Part 8.P.6 | Indicator Monitoring | Table 8.P-1 identifies indicator monitoring that applies to the specific subsectors of Sector P. This indicator monitoring applies to both your primary industrial activity and any co-located industrial activities. | | Y | Review Table 8.P-1 | Indicator monitoring included in schedule |
| Part 8.AA.1 | Covered Stormwater Discharges | The requirements in Subpart AA apply to stormwater discharges associated with industrial activity from Fabricated Metal Products facilities as identified by the SIC Codes specified under Sector AA in Table D-1 of Appendix D of the permit. | TA-3 Metal Fabrication Shop (38): Outfalls 076, 077 TA-9 Metal Fabrication Shop (0214): Outfall 079 TA-60 Heavy Equipment Yard (01): Outfall 022 | Y | Review the records, Visual Inspection | Verified the applicable facilities are categorized correctly as Sector AA. |
| Part 8.AA.2 | Additional Technology-Based Effluent Limits | 8.AA.2.1 Good Housekeeping Measures. (See also Part 2.1.2.2)<br>8.AA.2.1.1 Raw Steel Handling Storage. Minimize the generation of and/or recover and properly manage scrap metals, fines, and iron dust. Include measures for containing materials within storage handling areas.<br>8.AA.2.1.2 Paints and Painting Equipment. Minimize exposure of paint and painting equipment to stormwater.<br>8.AA.2.2.1 Metal Fabricating Areas. Maintain clean, dry, orderly conditions in these areas. Use dry clean-up techniques where practicable.<br>8.AA.2.2.2 Storage Areas for Raw Metal. Keep these areas free of conditions that could cause, or impede appropriate and timely response to, spills or leakage of materials through implementation of control measures | | Y | Visual Inspection | Metal storage kept under cover. All painting equipment is kept inside. Metal working fluid is kept inside. Cleaners are kept inside . Rinse waters are not typically used inside. Floor drains inside the shop, if present, are closed and do not discharge to the sanitary sewer system or outside storm drains. |

| Permit Section | Section Title | Permit Requirement | Applicable Areas | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|---|
| | | such as the following, where determined to be feasible (list not exclusive): maintaining storage areas so that there is easy access in the event of a spill and labeling stored materials to aid in identifying spill contents.<br>8.AA.2.2.3 Metal Working Fluid Storage Areas. Minimize the potential for stormwater contamination from storage areas for metal working fluids.<br>8.AA.2.2.4 Cleaners and Rinse Water. Control and clean up spills of solvents and other liquid cleaners, control sand buildup and disbursement from sandblasting operations, and prevent exposure of recyclable wastes. Substitute environmentally benign cleaners when possible. | | | | |
| | | 8.AA.2.2.5 Lubricating Oil and Hydraulic Fluid Operations. Minimize the potential for stormwater contamination from lubricating oil and hydraulic fluid operations. Use monitoring equipment or other devices to detect and control leaks and overflows where feasible. Install perimeter controls such as dikes, curbs, grass filter strips, or equivalent measures where feasible.<br>8.AA.2.2.6 Chemical Storage Areas. Minimize stormwater contamination and accidental spillage in chemical storage areas. Include a program to inspect containers and identify proper disposal methods.<br>8.AA.2.3 Spills and Leaks. (See also Part 6.2.3.3) In your spill prevention and response procedures, required by Part 2.1.2.4, pay attention to the following materials (at a minimum): chromium, toluene, pickle liquor, sulfuric acid, zinc and other water priority chemicals, and hazardous chemicals and wastes. | TA-3 Metal Fabrication Shop (38): Outfalls 076, 077<br>TA-9 Metal Fabrication Shop (0214): Outfall 079<br>TA-60 Heavy Equipment Yard (01): Outfall 022 | Y | Visual Inspection | All chemicals are used inside. Chemical items are kept labeled and are inventoried annually through LANL's Chemlog (barcode) tracking system. Spill cleanup materials are located inside the facilities and spill kits are readily accessible to facility personnel in the event of a spill or leak. |
| Part 8.AA.3 | Additional SWPPP Requirements | 8.AA.3.1 Drainage Area Site Map. (See also Part 6.2.2) Document in your SWPPP where any of the following may be exposed to precipitation or stormwater: raw metal storage areas; finished metal storage areas; scrap disposal collection sites; equipment storage areas; retention and detention basins; temporary and permanent diversion dikes or berms; right-of-way or perimeter diversion devices; sediment traps and barriers; processing areas, including outside painting areas; wood preparation; recycling; and raw material storage. | TA-3 Metal Fabrication Shop (38): Outfalls 076, 077<br>TA-9 Metal Fabrication Shop (0214): Outfall 079<br>TA-60 Heavy Equipment | Y | Review the records and SWPPP | SWPPPs have the required discussions. |

| Permit Section | Section Title | Permit Requirement | Applicable Areas | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|---|
| | | 8.AA.3.2 Potential Pollutant Sources. (See also Part 6.2.3) Document in your SWPPP the following additional sources and activities that have potential pollutants associated with them: loading and unloading operations for paints, chemicals, and raw materials; outdoor storage activities for raw materials, paints, empty containers, corn cobs, chemicals, and scrap metals; outdoor manufacturing or processing activities such as grinding, cutting, degreasing, buffing, and brazing; onsite waste disposal practices for spent solvents, sludge, pickling baths, shavings, ingot pieces, and refuse and waste piles. | Yard (01): Outfall 022 | | | |
| Part 8.AA.4 | Additional Inspection Requirements | 8.AA.4.1 Inspections. (See also Part 3.1) At a minimum, include the following areas in all inspections: raw metal storage areas, finished product storage areas, material and chemical storage areas, spent solvents and chemical storage areas, recycling areas, loading and unloading areas, equipment storage areas, paint areas, drainage from roof and vehicle fueling and maintenance areas. Potential pollutants include chromium, zinc, lubricating oil, solvents, aluminum, oil and grease, methyl ethyl ketone, steel, and related materials. | TA-3 Metal Fabrication Shop (38): Outfalls 076, 077<br>TA-9 Metal Fabrication Shop (0214): Outfall 079<br>TA-60 Heavy Equipment Yard (01): Outfall 022 | Y | Visual Inspection | Operations personnel perform routine inspections/rounds at the facility which are focused toward keeping the site clean, spill prevention and detection, and identification of potential compliance issues. |
| Part 8.AA.5 | Indicator Monitoring | Table 8.AA-1 identifies indicator monitoring that applies to the specific subsectors of Sector AA. This indicator monitoring applies to both your primary industrial activity and any co-located industrial activities. | TA-3 Metal Fabrication Shop (38): Outfalls 076, 077<br>TA-9 Metal Fabrication Shop (0214): Outfall 079<br>TA-60 Heavy Equipment Yard (01): Outfall 022 | Y | Review Table 8.AA-1 | Indicator monitoring included in schedule |
| Part 8.AA.6 | Sector-Specific Benchmarks | Table 8.AA-2 identifies benchmarks that apply to the specific subsectors of Sector AA. These benchmarks apply to both your primary industrial activity and any co-located industrial activities. | | Y | Review Table 8.AA-2 | Benchmark monitoring included in schedule. |

### B.1.9 SECTION 9 CONDITIONS APPLICABLE TO STATES, INDIAN COUNTRY LANDS, OR TERRITORIES

Only relevant subparts associated with sectors at LANL are included in this checklist.

| Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|
| Part 9.6.2 | NMR050000: The State of New Mexico, except Indian country<br>Operators in New Mexico must also meet the following conditions (see certification provided by the State of New Mexico, CWA410Cert_NM_2021 MSGP): | Y | | See below |
| Part 9.6.2.1 | Per -and Polyfluoroalkyl Substances (PFAS) Analytes Monitoring<br>Except as specified below, all North American Industry Classification System (NAICS) codes listed in the December 4, 2019, Advanced Notice of Proposed Rulemaking for Toxics Release Inventory (TRI) Reporting and covered under this MSGP shall monitor and report PFAS in effluent once during the first year of MSGP coverage, or when the facility discharges if no discharge occurs during the first year. Samples shall be analyzed by an accredited lab for all 18 PFAS analytes using EPA Method 537.1 (EPA 2018), and the Department of Defense (DoD) Quality Systems Manual Method 5.3 (2019) as guidance. Method and analysis shall be sufficiently sensitive to evaluate the New Mexico screening level for PFOA and PFOS.<br>The PFAS screening level in New Mexico is indicated below. The screening level is not a standard of quality and purity for the surface waters of New Mexico but allows detection and further evaluation of the existence of PFAS in stormwater discharges to determine if more attention is warranted.<br>PFAS Screening Level for New Mexico:<br>PFOA + PFOS<br>0.070 microgram per liter (µg/L)<br>If PFOA and/or PFOS are detected above the New Mexico screening level, additional monitoring and reporting shall occur annually and in accordance with the same parameters and methods as required for the first sampling event. In addition, the permittee should take corrective action and identify ways to minimize, reduce, and eliminate PFAS from the industrial activity through product substitution and/or additional BMPs and operational controls. Results of past monitoring and any corrective actions taken should be included in the SWPPP. | NA | Review the monitoring reports and EPA correspondence | Settlement agreement results in LANL not required to perform PFAS sampling |

| Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|
| | The permittee shall submit monitoring results for all 18 PFAS analytes under EPA Method 537.1, as required, to NMED at the following address:<br>Point Source Program Manager<br>Surface Water Quality Bureau<br>New Mexico Environment Department<br>P.O. Box 5469<br>Santa Fe, NM 87502-5469<br>NMED may suspend the requirement to monitor and report PFAS under the following circumstances:<br>• If the permittee determines it is not technically practicable to measure PFAS in their stormwater discharge; or<br>• If additional sampling determines that it is unlikely that PFAS exist in a permittee's stormwater discharge, if the permittee provides facility data that demonstrate PFAS are unlikely to be present in the stormwater discharge, or there are no available, accredited laboratories capable of performing the required PFAS analysis; or<br>• If additional sampling demonstrates that the pollutant concentration is lower than the screening level or the permittee is subject to duplicative or more stringent PFAS requirements.<br>However, to be exempted for these reasons, the permittee must submit documentation to NMED for approval. See id. At 4-6. | | | |
| Part 9.6.2.2 | Benchmark Monitoring Concentrations<br>The benchmark values for pollutants must be modified to reflect New Mexico WQS for the facilities in New Mexico based on water quality criteria approved in the Standards for Interstate and Intrastate Surface Waters, 20.6.4.900 NMAC. Consistent with the language in this permit, exceedances of a benchmark value, even if that value is based on New Mexico WQS, are not immediately a violation of the permit unless the permittee does not take appropriate action to improve BMPs or otherwise mitigate the discharge of the detected pollutant. A full Tier 2 Antidegradation Review (significant degradation analysis; reasonable alternatives identification; economic and social importance; etc.) does not translate to projects covered under this general permit. Therefore, this condition is necessary to ensure that New Mexico's antidegradation policy is upheld and surface waters of the state are protected from degradation. Refer to the MSGP Benchmark values and sources table from the permit. Most restrictive value (highlighted below) must be chosen. | Y | Review the records and monitoring reports | Benchmark values in the SWPPPs are consistent with the values referenced in Section 9 of this permit. |

| Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|
| Part 9.6.2.3 | Outstanding National Resource Waters<br>Operators are not eligible to obtain authorization under this permit for stormwater discharges to outstanding national resource waters (ONRWs, also referred to as "Tier 3" waters). Although State WQS provide for temporary and short-term degradation of water quality in an ONRW under very limited circumstances, if approved by the New Mexico Water Quality Control Commission as specified at 20.6.4.8.A NMAC, the approval process required for these activities does not translate to projects covered under this general permit. This condition is necessary to ensure that no degradation is allowed in ONRWs by requiring proposed stormwater discharges to be reviewed under the individual permit process. Tier 3 waters are defined in Appendix F of the proposed permit. See id. | Y | Review list of outstanding waters | No discharges to Tier 3 waters |

| Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|
| Part 9.6.2.4 | Additional SWPPP Requirements<br>Information on how the permittee knows the groundwater or spring water is uncontaminated must be documented in the facility SWPPP.<br>EPA must amend the NOI to include a question for the permittee to indicate whether they anticipate to discharge groundwater or spring water from their site. The permittee must be able to indicate on the NOI: flow rate, whether the ground or spring water source is nearby potential pollutant sources, and if the ground or spring water has been tested and is not contaminated by the potential pollutant source.<br>If discharge of groundwater or spring water is anticipated at a facility, permittees must complete the following steps to determine if it is potentially contaminated:<br>a. Indicate on the NOI that dewatering activities are anticipated. Provide information on flow and potential to encounter impacted ground or spring water.<br>b. Refer to the Mapper tool at https://gis.web.env.nm.gov/oem and check if the following groundwater pollutant sources are located nearby the anticipated source of groundwater or spring water such that there is a potential for contamination (refer to the table under MSGP)<br>c. If within the distances listed above, Permittee must provide test data indicating the quality of the groundwater or spring water to be discharged according to the table above.<br>d. Permittee must send test result data to EPA Region 6 and the NMED Surface Water Quality Bureau. If the test data exceed State WQS, the ground or spring water cannot be discharged from the facility into surface waters under this permit. Discharge to surface waters must be conducted under a separate NPDES individual permit to ensure proper treatment and disposal. If disposal will be to the ground surface or in an unlined pond, the permittee must submit a Notice of Intent to Discharge (NOI) to the NMED Ground Water Quality Bureau. For further assistance determining whether your facility may encounter impacted groundwater, the permittee may contact the NMED Ground Water Quality Bureau at (505) 827-2965.<br>e. Investigative information and data demonstrating that water is not contaminated must be documented in the facility SWPPP. | Y | Review the records, monitoring reports, and SWPPPs | No discharges to springs or groundwater |

| Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|
| Part 9.6.2.5 | Ponds and Other Impoundments<br>Per the New Mexico Office of the State Engineer requirements2, impoundments must drain or infiltrate within 96 hours. The facility must transfer a valid water right to impound and retain the stormwater longer than 96 hours or request a variance from the State Engineer.<br>If the facility intends to discharge stormwater that contains a "water contaminant" as defined in 20.6.2.7 NMAC, a State of New Mexico Notice of Intent to Discharge must be submitted to NMED in accordance with 20.6.2.1201 NMAC prior to discharge. This includes infiltration of stormwater or a discharge to the ground surface that may move directly or indirectly into groundwater.<br>In the event impounded stormwater contains a "water contaminant" as defined in 20.6.2.7 NMAC, the stormwater must meet benchmark values in order to be discharged to a surface water of the State. | Y | Review the records, monitoring reports, and SWPPPs | Discharges from impoundments that contain water contaminants have been consistently reported correctly under NMAC 20.6.2.1201 |

### B.1.10 APPENDIX J – CALCULATING HARDNESS IN FRESHWATER RECEIVING WATERS FOR HARDNESS DEPENDENT METALS

Only relevant subparts associated with sectors at LANL are included in this checklist.

| Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|
| For any sectors required to conduct benchmark samples for a hardness-dependent metal, EPA includes ‘hardness ranges’ from which benchmark values are determined. To determine which hardness range to use, you must collect data on the hardness of your receiving water(s). Once the site-specific hardness data have been collected, the corresponding benchmark value for each metal is determined by comparing where the hardness data fall within hardness ranges, as shown in Table 1. You only need to determine hardness for your discharges into freshwater as the benchmark values for metals do not vary for discharges to saline waters. | Y | Review source of hardness data | Hardness test result in NOI |

| Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|
| How to Determine Hardness for Hardness-Dependent Parameters in Freshwater.<br>You may select one of three methods to determine hardness, including: individual grab sampling, grab sampling by a group of operators which discharge to the same receiving water, or using third-party data. Regardless of the method used, you are responsible for documenting the procedures used for determining hardness values. The hardness value is required to be submitted to EPA with our Notice of Intent (NOI) so that your electronic Discharge Monitoring Report (DMR) which you will submit through Net-DMR will include the appropriate limits. You must retain all report and monitoring data in accordance with Part 7.8 of the permit. The three method options for determining hardness are detailed in the following sections.<br>i. Permittee Samples for Receiving Stream Hardness<br>This method involves collecting samples in the receiving water and submitting these to a laboratory for analysis. If you elect to sample your receiving water(s) and submit samples for analysis, hardness must be determined from the closest intermittent or perennial stream downstream of your point of discharge. The sample can be collected during either dry or wet weather. Collection of the sample during wet weather is more representative of conditions during stormwater discharges; however, collection of in-stream samples during wet weather events may be impracticable or present safety issues.<br>Hardness must be sampled and analyzed using approved methods as described in 40 CFR Part 136 (Guidelines Establishing Test Procedures for the Analysis of Pollutants).<br>ii. Group Monitoring for Receiving Stream Hardness<br>You can be part of a group of permittees discharging to the same receiving waters and collect samples that are representative of the hardness values for all members of the group. In this scenario, hardness of the receiving water must be determined using 40 CFR Part 136 procedures and the results shared by group members. To use the same results, hardness measurements must be taken on a stream reach within a reasonable distance of the discharge points of each of the group members. | Y | Review source of hardness data | Hardness test result in NOI, which was accepted |

### B.1.10 APPENDIX M – DISCHARGE MONITORING REPORT (DMR) FORM

Only relevant subparts associated with sectors at LANL are included in this checklist.

| Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|
| Part 7.2 requires you to use the electronic DMR system to prepare and submit your Discharge Monitoring Report (DMR) form. However, if you are given approval by the EPA Regional Office to use a paper DMR form, and you elect to use it, you must complete and submit the following form. | Y | Review the records and database | LANL has used the DMR system in the past and is prepared to use it going forward. |

### B.1.10 APPENDIX O – SUMMARY OF REPORTS PERMIT SUBMITTALS

Only relevant subparts associated with sectors at LANL are included in this checklist.

| Permit Section | Applicable Operator | Report/ Submittal | Frequency | Due Date(s) | Where to Submit | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|---|---|---|
| Part 1.3 | Operator operating consistent with EPA's No Action Assurance and submitted an Intent to Operate (ITO) form [Operators of industrial activities who commenced discharging between June 4, 2020 and March 1, 2021 and have been operating consistent with EPA's June 3, 2020 'No Action Assurance for the NPDES Stormwater Multi-Sector General Permit for Industrial Activities.'] | Submittal of Notice of Intent (NOI) | Once per permit term | As soon as possible, but see the June 3, 2020 'No Action Assurance for the NPDES Stormwater Multi-Sector General Permit for Industrial Activities' (and any updates to that document) for additional guidance on deadlines. | Electronically using the NPDES eReporting Tool (NeT) for MSGP | Y | Review the records | NOI submitted and approved |

| Permit Section | Applicable Operator | Report/ Submittal | Frequency | Due Date(s) | Where to Submit | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|---|---|---|
| Part 1.3 | Existing MSGP facility [Operators of industrial activities whose stormwater discharges were covered under the 2015 MSGP] | Submittal of Notice of Intent (NOI) | Once per permit term | No later than May 30, 2021. However, if you have not previously obtained coverage under an NPDES permit, you must submit your NOI immediately. | Electronically using the NPDES eReporting Tool (NeT) for MSGP | Y | Review the records | NOI submitted and approved |
| Part 1.3.4 | An operator needing to correct or update any NOI fields | Submittal of a Change NOI | As applicable | For existing operator, within 30 calendar days after the change occurs. Within 30 calendar days of the transfer in operator or a new operator taking over operational control at an existing facility, the new operator must submit a new NOI. No later than 30 calendar days after MSGP coverage becomes active for the new operator, the previous operator must submit a Notice of Termination (NOT) per Part 1.4. | Electronically using the NPDES eReporting Tool (NeT) for MSGP | Y | Review NOIs | Change NOIs submitted to EPA in a timely fashion for all instances an NOI was required. |
| Part 3.1.6 | All operators, unless eligible for an exception | Routine Inspection Documentation | At least quarterly | By the end of the quarter | Reports are kept with SWPPP | Y | Review the records | Inspections performed on schedule provided in NOI |
| Part 3.2.3 | All operators, unless eligible for an exception | Quarterly Visual Assessment Documentation | At least quarterly | By the end of the quarter | Reports are kept with SWPPP | Y | Review the records | Visual Assessments performed on alternate schedule |

| Permit Section | Applicable Operator | Report/ Submittal | Frequency | Due Date(s) | Where to Submit | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|---|---|---|
| Part 5.3 | Operators that must perform corrective action or Additional Implementation Measures per Parts 5.1 and 5.2 | Corrective Action and AIM Documentation | • Document existence of corrective action/AIM condition within 24 hours of becoming aware of the condition;<br>• Document corrective actions/AIMs taken or to be taken within 14 days from the time of discovery of the condition. | As necessary | Reports are kept with SWPPP | Y | Review the records | Corrective Actions reported and kept on file in SWPPP within prescribed deadlines |
| Part 6 Part 7.3 | All operators | Stormwater Pollution Prevention Plan (SWPPP) | • Attach SWPPP to NOI, provide URL for SWPPP, or provide SWPPP information directly on the NOI form.<br>• Update the on-site SWPPP as site conditions indicate. At minimum, the SWPPP must be modified based on corrective actions and deadlines required under Part 5. | Develop initial SWPPP prior to the submittal of NOI form.<br>Update the SWPPP information included in attachment to NOI, on URL, or on NOI form, at a minimum, no later than 45 days after conducting the final routine facility inspection for the year. | Electronically using the NPDES eReporting Tool (NeT) for MSGP | Y | Review the NOI | NOI / SWPPP submitted and approved |
| Part 4 Part 7.4 | All operators | Discharge Monitoring Reports (DMRs) | Indicator Monitoring for pH, Total Suspended Solids (TSS), and Chemical Oxygen Demand (COD) (Part 4.2.1.1.a.): 1/quarter for entire permit coverage;<br>• Indicator Monitoring for | Within 30 days of receiving your full laboratory results for all monitored discharge points during the reporting period. | Electronically using EPA's electronic DMR tool (Net-DMR) | Y | Review the records | DMRs reported on alternate schedule provided in NOI. Records kept in SWPPPs |

| Permit Section | Applicable Operator | Report/ Submittal | Frequency | Due Date(s) | Where to Submit | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|---|---|---|
| | | | Polycyclic Aromatic Hydrocarbons (PAHs) (Part 4.2.1.1.b): 2/year in years 1 and 4 of permit coverage;<br>• Benchmark Monitoring (Part 4.2.2): 1/quarter in years 1 and 4 of permit coverage (additional monitoring may be required if exceedances occur);<br>• Effluent Limitations Monitoring (Part 4.2.3): 1/year for entire permit coverage;<br>• State or Tribal Monitoring (Part 4.2.4): See Part 9 of the permit for frequency;<br>• Impaired Waters Monitoring (Part 4.2.5): 1/year in years 1 and 4 of permit coverage for discharges to impaired waters without an EPA-approved or established total maximum daily load (TMDL) | | | | | |

| Permit Section | Applicable Operator | Report/ Submittal | Frequency | Due Date(s) | Where to Submit | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|---|---|---|
| Part 7.4 | All operators | Annual Report | 1/year | By January 30th | Electronically using the NPDES eReporting Tool (NeT) for MSGP (NeT-MSGP) | Y | Review the records | Annual reports submitted electronically and kept on record in SWPPP. |
| Part 7.5 | Operators subject to follow-up monitoring per Part 4.2.3.3 | Exceedance Report for Numeric Effluent Limitations | If applicable | 30 days after receiving laboratory results if 30-day follow-up monitoring indicates exceedance | Electronically using the NPDES eReporting Tool (NeT) for MSGP (NeT-MSGP) | Y | Review the records | Follow-up monitoring performed as required per records maintained in SWPPPs. |
| Part 7.6 | Any applicable operator | Additional Reporting (Noncompliance endangering health, reportable quantity spills, etc.) | As necessary | Varies – see Part 7.6 | Varies – see Part 7.6 | Y | Review the records | Additional reporting for spills and non-compliance performed per NMAC 20.6.2.1203 |

## B.2 Observation Forms

The Review Team made the following observations during the review of LANL's Multi-Sector General Permit (MSGP).

# SEP – Second Triennial Review Observation Form

*PRE-DECISIONAL*

**Observation No.:** MSGP-001 **Category:** Signage

**Observation Title:** Public Signage

**Observation Type:** II - Potential Environmental Regulatory Violation

**Date:** 6/21/2021

**Technical Area:** Universal **Location:** Universal

**Operational Entity:** Triad

**Reference:** 1.3.5 Signage

**Requirement:**

You must post a sign or other notice of your permit coverage, at a safe, publicly accessible location in close proximity to your facility… (Specific to 2021 MSGP)

**Notes:**

No signage has been posted yet. The permit is not in effect yet, but will be soon.

**Recommendation:**

Be prepared to hang signage on permitted areas that are adjacent to publicly accessible areas. Continue the conversation with regulators on requirements for facilities that are far from public access.

**Response:**

Please confirm that the attached documentation of MSGP signage at active facilities is sufficient to close this pre-decisional observation. Please let me know if you have any questions.

**Status:** Closed **Reviewer:** Erik Powers

# SEP – Second Triennial Review Observation Form

*PRE-DECISIONAL*

**Observation No.:** MSGP-002 **Category:** Control equipment

**Observation Title:** General Compliance

**Observation Type:** Positive Practice

**Date:** 6/22/2021

**Technical Area:** Universal **Location:** Universal

**Operational Entity:** Triad

**Reference:** 2.1.2.3 Maintenance

**Requirement:**

You must maintain all control measures that are used to achieve the effluent limits in this permit and all industiral equipment and systems in effective operating condition in order to minimize pollutant discharges.

**Notes:**

Overall good capture of stormwater to prevent unauthorized discharges. Control measures in good condition. Agreement of monitoring requirements to meet permit requirements.

**Recommendation:**

None

**Response:**

**Status:** Not Applicable for In Compliance & Positive **Reviewer:** Erik Powers

# SEP – Second Triennial Review Observation Form

*PRE-DECISIONAL*

**Observation No.:** MSGP-003 **Category:** Control equipment

**Observation Title:** Anticipated Runoff from TA-09-0214

**Observation Type:** Efficiency / Improvement Recommendation

**Date:** 6/21/2021

**Technical Area:** TA-09 **Location:** Bldg 214

**Operational Entity:** Triad

**Reference:** 2.1.2.1 Minimize exposure

**Requirement:**

You must minimize the exposure of manufacturing, processing, and material storage areas… to rain, snow, snowmelt, and stormwater in order to minimize pollutant discharges by either locating these industrial materials and activities inside or protecting them with storm resistant coverings.

**Notes:**

It is not clear that stormwater runoff is being diverted to a specific point from the facility. The description and map in the SWPPP do not seem to match what is on the ground. This is likely due to the installation of a new lower storage area to the east of the building. The monitoring station has not been installed yet. There is also some uncovered refuse on the north side of the building.

**Recommendation:**

There is time to determine actual runoff patterns and necessary control measures necessary to route stormwater to a common outfall. Continue to remove waste from the facility and develop a plan of action.

**Response:**

Please confirm that the attached photo is the area identified in the MSGP-003 as the uncovered refuse on the north side of the building (TA-9-0214) which is recommended for removal from the facility. Please confirm that the attached documentation provided in the

TA-09-0214 Facility Map is sufficient to close this pre-decisional observation. Please let me know if you have any questions.

**Status:** Closed **Reviewer:** Erik Powers

# SEP – Second Triennial Review Observation Form

*PRE-DECISIONAL*

**Observation No.:** MSGP-004 **Category:** Control equipment

**Observation Title:** Good progress at Heavy Equipment Shop

**Observation Type:** Positive Practice

**Date:** 6/22/2021

**Technical Area:** TA-60 **Location:** Heavy Equipment Yard

**Operational Entity:** Triad

**Reference:** 2.1.2.6 Management of Stormwater

**Requirement:**

You must divert, infiltrate, reuse, contain, or otherwise reduce stormwater to minimize pollutants in your discharges. In selecting, designing, installing, and implementing appropriate control measures, you are encouraged to consult with EPA's resources relating to stormwater management…

**Notes:**

A challenging facility, but lots of recent improvement. Stormwater is being managed well at this facility despite the large catchment area, complicated drainage patterns, and active equipment maintenance and storage. Improvements to the drainage channels, removal of problematic material storage, and shoring up of slopes has improved the ability to manage stormwater significantly.

**Recommendation:**

None.

**Response:**

**Status:** Not Applicable for In Compliance & Positive **Reviewer:** Erik Powers

# SEP – Second Triennial Review Observation Form

*PRE-DECISIONAL*

**Observation No.:** MSGP-005 **Category:** Storage

**Observation Title:** Covering raw metal

**Observation Type:** I - Operational Deficiency (not following LANL procedure)

**Date:** 6/23/2021

**Technical Area:** TA-3 **Location:** Metal Fabrication Shop

**Operational Entity:** Triad

**Reference:** 2.1.2.1 Minimize Exposure

**Requirement:**

You must minimize the exposure of manufacturing, processing, and material storage areas… to rain, snow, snowmelt, and stormwater in order to minimize pollutant discharges by either locating these industrial materials and activities inside or protecting them with storm resistant coverings.

**Notes:**

Metal is covered in the storage yard and in the satellite area with tarps and/or a small roof. Larger more contiguous roofing will reduce or eliminate exposure altogether. A small pile of debris including raw metal was observed uncovered on the northern fenceline at the metal fabrication facility.

**Recommendation:**

Remove the pile of debris. If possible, invest in a more effecting covering strategy for the raw metal in the yard and satellite area.

**Response:**

Please evaluate the attached documentation for adequacy in meeting the recommendation to remove the pile of debris associated with MSGP-005. The metal that was only partially covered has been fully covered and a metal storage area has been added as an industrial activity area to the facility map.

**Status:** Closed **Reviewer:** Erik Powers

# SEP – Second Triennial Review Observation Form

*PRE-DECISIONAL*

**Observation No.:** MSGP-006 **Category:** Recordkeeping

**Observation Title:** EIM database

**Observation Type:** Positive Practice

**Date:** 6/23/2021

**Technical Area:** Universal **Location:** Universal

**Operational Entity:** Triad

**Reference:** Section 7 - Reporting and Recordkeeping

**Requirement:**

General compliance with this section

**Notes:**

The system for archiving and analyzing data results is above and beyond what is necessary for a permit, but is probably needed for a complex jurisdiction like LANL. The algorithms for determining changes in monitoring requirements and Additional Implementation Measure (AIM) status were developed by the compliance team. The resulting toolbox is an extraordinary system.

**Recommendation:**

None

**Response:**

**Status:** Not Applicable for In Compliance & Positive **Reviewer:** Erik Powers

# SEP – Second Triennial Review Observation Form

*PRE-DECISIONAL*

**Observation No.:** MSGP-007 **Category:** Reporting

**Observation Title:** Water Quality Standards

**Observation Type:** Positive Practice

**Date:** 6/23/2021

**Technical Area:** Universal **Location:** Universal

**Operational Entity:** Triad

**Reference:** Part 7. Reporting and Recordkeeping

**Requirement:**

Report exceedances to EPA

**Notes:**

The compliance team has identified inconsistencies between water quality standards for hardness-based metals referenced in the MSGP and those determined by the New Mexico Environment Department's (NMED's) regulations, which indicate a mistake in the published standards.

**Recommendation:**

It remains to be seen whether the EPA will hold LANL to the published standards. Recommend continuing dialogue with federal and state regulators to determine the best way forward.

**Response:**

**Status:** Not Applicable for In Compliance & Positive **Reviewer:** Erik Powers

# SEP – Second Triennial Review Observation Form

*PRE-DECISIONAL*

**Observation No.:** MSGP-008 **Category:** Storage

**Observation Title:** Secondary containment of large liquid tanks

**Observation Type:** Efficiency / Improvement Recommendation

**Date:** 6/23/2021

**Technical Area:** TA-60 **Location:** Roads and Grounds West

**Operational Entity:** Triad

**Reference:** 2.1.2.1.b

**Requirement:**

Locate materials, equipment, and activities so that potential leaks and spills are contained or able to be contained or diverted before discharge.

**Notes:**

10,000-gallon tanks on the north and south side of the salt storage area sit without a secondary containment. Observed leaking valves on a couple of them, though drip pans catch the leaks. In the event of a catastrophic failure, there is nothing preventing an unauthorized discharge.

**Recommendation:**

Recommend installing a secondary containment unit to house these tanks, sized to prevent an unauthorized discharge.

**Response:** In response to MSGP-008, Triad is in the process of replacing current material storage tanks containing anti-icing solutions with new 10,000 gallon tanks as well as installing a new system for making anti-ice solution. Two tanks have already been emptied, and the other two will be used until exhausted in the upcoming snow season. Replacement of the old tanks with a brine mixing unit and four new poly tanks makes the potential for catastrophic failure of the tanks extremely low.

**Status:** Closed **Reviewer:** Erik Powers

# SEP – Second Triennial Review Observation Form

*PRE-DECISIONAL*

**Observation No.:** MSGP-009 **Category:** Control equipment

**Observation Title:** Undersized retention area

**Observation Type:** Efficiency / Improvement Recommendation

**Date:** 6/22/2021

**Technical Area:** TA-60 **Location:** Material Recycling Facility

**Operational Entity:** Triad

**Reference:** 2.1.1 Stormwater Control Measure Selection and Design Considerations

**Requirement:**

Using stormwater control measures in combination may be more effective than using control measures in isolation for minimizing pollutants in stormwater discharges.

**Notes:**

The retention pond is undersized for the facility.

**Recommendation:**

More staged storage could be installed at the lower end of the facility to allow for a slower release of stormwater during a rain event.

**Response:**

**Status:** Open **Reviewer:** Erik Powers

# SEP – Second Triennial Review Observation Form

*PRE-DECISIONAL*

**Observation No.:** MSGP-010 **Category:** Control equipment

**Observation Title:** Stockpile encroachment on berm

**Observation Type:** Efficiency / Improvement Recommendation

**Date:** 6/22/2021

**Technical Area:** TA-60 **Location:** Roads and Grounds East

**Operational Entity:** Triad

**Reference:** 2.1.2.1 Minimize Exposure

**Requirement:**

You must minimize exposure of manufacturing, processing, and material storage areas (including loading and unloading, storage, disposal, cleaning, maintenance, and fueling areas) to rain, snow, snowmelt, and stormwater in order to minimize pollutant discharges by either locating these industrial materials and activities inside or protecting them with storm resistant coverings.

**Notes:**

The eastern edge of the soil stockpile associated with Outfall 039 was threatening (within 1 foot) to cover the stormwater berm.

**Recommendation:**

This observationwas not an issue during the inspection because it did not overtake the berm, but it was pretty close. Consider including a buffer wide enough to provide some cushion in case of sloughing. Another suggestion may be to limit any more deposits to a pile before it gets to a point where there is risk of overtaking the berm.

**Response:**

Please confirm whether the attached documentation provided relative to the eastern edge of the soil stockpile at TA-60 Roads and Grounds (near outfall 039) which threatened (within 1 foot) to cover the stormwater berm, is sufficient to close this pre-decisional observation.

**Status:** Closed **Reviewer:** Erik Powers

# SEP – Second Triennial Review Observation Form

*PRE-DECISIONAL*

**Observation No.:** MSGP-011 **Category:** Best Management Practice

**Observation Title:** Unmarked outfall location

**Observation Type:** I - Operational Deficiency (not following LANL procedure)

**Date:** 6/28/2021

**Technical Area:** TA-54 **Location:** Area G, outfall 076

**Operational Entity:** N3B

**Reference:** SWPPP 5.2

**Requirement:**

Quarterly visual assessments (QVAs) of stormwater discharge will be conducted from each outfall/substantially identical discharge point (SIDP) in use at TA-54…

**Notes:**

New outfall was not marked, so it was unclear where the sample jar needed to be placed for the QVA.

**Recommendation:**

Recommended marking it with a stake or sandbag.

**Response:**

Sandbag was placed at outfall prior to the reviewer leaving the site for the day.

**Status:** Closed **Reviewer:** Erik Powers

# SEP – Second Triennial Review Observation Form

*PRE-DECISIONAL*

**Observation No.:** MSGP-012 **Category:** Storage

**Observation Title:** Uncovered metal debris

**Observation Type:** I - Operational Deficiency (not following LANL procedure)

**Date:** 6/28/2021

**Technical Area:** TA-54 **Location:** Area G

**Operational Entity:** N3B

**Reference:** 2.1.2.1 Minimize Exposure

**Requirement:**

You must minimize exposure of manufacturing, processing, and material storage areas… to rain, snow, snowmelt, and stormwater in order to minimize pollutant discharges by either locating these industrial materials inside or protecting them with storm resistant coverings

**Notes:**

Metal debris and equipment were uncovered and exposed to precipitation.

**Recommendation:**

Cover with tarps

**Response:**

Equipment and debris covered.

**Status:** Closed **Reviewer:** Erik Powers

# SEP – Second Triennial Review Observation Form

*PRE-DECISIONAL*

**Observation No.:** MSGP-013 **Category:** Inspections

**Observation Title:** Visual Inspections

**Observation Type:** Positive Practice

**Date:** 6/28/2021

**Technical Area:** TA-54 **Location:** Area G

**Operational Entity:** N3B

**Reference:** 3.1.3 What you must look for during an inspection.

**Requirement:**

During the inspection, the qualified personnel must examine or look out for, including, but not limited to, the following:

3.1.3.1 - 3.1.3.8

**Notes:**

Good job performing inspections and noting needed maintenance.

**Recommendation:**

Keep it up.

**Response:**

**Status:** Not Applicable for In Compliance & Positive **Reviewer:** Erik Powers

# SEP – Second Triennial Review Observation Form

*PRE-DECISIONAL*

**Observation No.:** MSGP-014 **Category:** Training

**Observation Title:** Training at TA-54

**Observation Type:** Positive Practice

**Date:** 6/28/2021

**Technical Area:** TA-54 **Location:** TA-54

**Operational Entity:** N3B

**Reference:** 2.1.2.8 Employee Training

**Requirement:**

You must train all employees who work in areas where industrial materials or activities are exposed to stormwater…

**Notes:**

In addition to training about National Pollution Discharge Elimination System (NPDES) permit compliance, the team has instituted monthly environmental compliance workshops. These are above and beyond what is required.

**Recommendation:**

The workshops should help keep site workers, operators, and maintenance personnel up to speed on compliance issues to help self-identify issues and be proactive.

**Response:**

**Status:** Not Applicable for In Compliance & Positive **Reviewer:** Erik Powers

## B.3 NPDES MSGP Checklist References

EPA (2015) National Pollutant Discharge Elimination System (NPDES) Multi-Sector General Permit (MSGP) for Stormwater Discharges Associated with Industrial Activity, effective June 4, 2015. Washington, D.C.

EPA (2021). National Pollutant Discharge Elimination System (NPDES) Multi-Sector General Permit (MSGP) for Stormwater Discharges Associated with Industrial Activity, effective March 1, 2021. Washington, D.C.

LANS Environmental Protection and Compliance Division (2017a). *Threatened and Endangered Species Habitat Management Plan for Los Alamos National Laboratory.* October 2017. Los Alamos, NM.

LANS Environmental Stewardship Group (2017b). *A Plan for the Management of the Cultural Heritage at Los Alamos National Laboratory, New Mexico*.

LANL (2021). Electronic Public Reading Room. http://eprr.lanl.gov/

N3B (2021a). *Stormwater Pollution Prevention Plan for Technical Area 54 Maintenance Facility West.* January 2021. Los Alamos, NM.

N3B (2021b). *Stormwater Pollution Prevention Plan for Technical Area 54 Areas G and L*. January 2021. Los Alamos, NM.

N3B (2021c). *NOI for Stormwater Discharges Associated with Industrial Activity under the NPDES Multi-Sector General Permit (for Maintenance Facility West),* Submitted May 10, 2021. Los Alamos, NM.

N3B (2021d). *NOI for Stormwater Discharges Associated with Industrial Activity under the NPDES Multi-Sector General Permit (for Areas G and L),* Submitted May 20, 2021. Los Alamos, NM.

N3B (2021e). *Stormwater Pollution Prevention Plan for Technical Area 54 Maintenance Facility West*. May 2021. Los Alamos, NM.

N3B (2021f). *Stormwater Pollution Prevention Plan for Technical Area 54 Areas G and L.* May 2021. Los Alamos, NM.

NMED (2020). *2020-2022 State of New Mexico Clean Water Act (CWA) §303(d)/§305(b) Integrated List of Assessed Surface Waters*, from the Integrated Report. January 22, 2021. Santa Fe, NM.

Triad (2018). *Memorandum to EPA. NPDES MSGP NOI Reporting Pursuant to Part.12.C.* October 1, 2018. Los Alamos, NM.

Triad (2020). NPDES Permit Tracking No. NMR050013 MSGP 2020 Annual Report. January 28, 2021. Los Alamos, NM.

Triad (2021a). *MSGP Stormwater Pollution Prevention Plan for: TA-03-22 Power and Steam Plant*. January 2021. Los Alamos, NM.

Triad (2021b). *MSGP Stormwater Pollution Prevention Plan for: TA-16 Stockpile Area*. January 2021. Los Alamos, NM.

Triad (2021c). *MSGP Stormwater Pollution Prevention Plan for: TA-60 Material Recycling Facility*. January 2021. Los Alamos, NM.

Triad (2021d). *MSGP Stormwater Pollution Prevention Plan for: TA-60 Roads and Grounds Facility, Sigma Mesa Staging Areas, and Asphalt Batch Plant*. January 2021. Los Alamos, NM.

Triad (2021e). *MSGP Stormwater Pollution Prevention Plan for: TA-60-01 Heavy Equipment Shop*. January 2021. Los Alamos, NM.

Triad (2021f). *MSGP Stormwater Pollution Prevention Plan for: TA-60-02 Salvage/Warehouse*. January 2021. Los Alamos, NM.

Triad (2021g). *MSGP Stormwater Pollution Prevention Plan for: TA-03-38 Carpentry & Metal Fabrication Shops*. January 2021. Los Alamos, NM.

Triad (2021h). *NOI for Stormwater Discharges Associated with Industrial Activity under the NPDES Multi-Sector General Permit*, Submitted May 26, 2021. Los Alamos, NM.

Triad (2021i). *MSGP Stormwater Pollution Prevention Plan for: TA-03-38 Metal Fabrication Shops*. May 2021. Los Alamos, NM.

Triad (2021j). *MSGP Stormwater Pollution Prevention Plan for: TA-09-0219 Metal Fabrication Shop*. May 2021. Los Alamos, NM.

Triad (2021k). *MSGP Stormwater Pollution Prevention Plan for: TA-16 Stockpile Area.* May 2021.

Triad (2021l). *MSGP Stormwater Pollution Prevention Plan for: TA-60 Material Recycling Facility.* May 2021. Los Alamos, NM.

Triad (2021m). *MSGP Stormwater Pollution Prevention Plan for: TA-60 Roads and Grounds Facility, Sigma Mesa Staging Areas, and Asphalt Batch Plant.* May 2021. Los Alamos, NM.

Triad (2021n). *MSGP Stormwater Pollution Prevention Plan for: TA-60-01 Heavy Equipment Shop*. May 2021. Los Alamos, NM.

Triad (2021o). *MSGP Stormwater Pollution Prevention Plan for: TA-60-02 Salvage/Warehouse*. May 2021. Los Alamos, NM.

Programmatic Agreement among the US. Department of Energy, National Nuclear Security Administration, Los Alamos Field Office, the New Mexico State Historic Preservation Office and the Advisory Council on Historic Preservation Concerning Management of the Historic Properties of Los Alamos National Laboratory, Los Alamos, New Mexico. Issued March 30, 2017.

Settlement Agreement. New Mexico Chamber of Commerce v. New Mexico Environment Department, Surface Water Quality Bureau. Docket No. SWQB-20-7. Signed May 25, 2021.

# Appendix C: NPDES Industrial and Sanitary Point-Source Outfall Permit

## C.1 Compliance Checklist

The Review Team used the following checklists to assess compliance with the National Pollutant Discharge Elimination System (NPDES) Industrial and Sanitary Point Source Outfall Permit NM0028355.

### C.1.1 PART I: REQUIREMENTS FOR NPDES PERMITS

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| Part I.A | Effluent Limitations and Monitoring Requirements | Effluent Limitations: Outlines monitoring frequency and constituents for all permitted outfalls:<br>Outfall 001<br>Outfall 13S<br>Outfall 051<br>Outfall 03A022<br>Outfall 03A027<br>Outfall 03A048<br>Outfall 03A113<br>Outfall 03A160<br>Outfall 03A181<br>Outfall 03A199<br>Outfall 05A055<br>SEE PERMIT FOR MONITORING REQUIREMENT DETAILS FOR EACH OUTFALL | Y | Outfalls Inspection | During June 22 and June 28, 2021, the Review Team inspected all the eleven outfalls. All the outfalls appear to be in good conditions. |
| Part I.B | Compliance Schedules | All effluent limitations with a compliance schedule established in Part I., section A. above, must comply with the following reporting requirements and compliance schedules:<br>1. Provide semi-annual progress reports by August 31 for the period of January – June, and by February 28 for the period of July – December;<br>2. Identify sources or causes of exceedance of permit limitations by six months from the effective date of the permit;<br>3. Identify corrective measures or study plan by one year from the effective date of the permit;<br>4. Comply with the final effluent limitations by the date specified in Part I. section A. of the permit. | Y | Review semi-annual progress reports | Reviewed the LANL semi-annual progress reports from January 2018 through June 2021. All the reports were submitted in timely manner. No exceedances were noted. |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| Part I.C | Reporting of Monitoring Results (Major Dischargers) | Monitoring information shall be submitted as specified in Part III.D.4 of this permit and shall be submitted monthly.<br>1. Reporting periods shall end on the last day of the month.<br>2. The permittee is required to submit regular monthly reports as described above no later than the 28th day of the month following each reporting period.<br>The permittee shall report all overflows with the Discharge Monitoring Report submittal. These reports shall be summarized and reported in tabular format. The summaries shall include: the date, time, duration, location, estimated volume, and cause of the overflow; observed environmental impacts from the overflow; actions taken to address the overflow; and ultimate discharge location if not contained (e.g., storm sewer system, ditch, tributary). Any noncompliance which may endanger health or the environment shall be made to the EPA at the following e-mail address: R6_NPDES_Reporting@epa.gov, as soon as possible, but within 24-hours from the time the permittee becomes aware of the circumstance. This language supersedes that contained in Part III.D.7 of the Permit. Additionally, oral notification shall also be to the New Mexico Environment Department at (505) 827-0187 as soon as possible, but within 24 hours from the time the permittee becomes aware of the circumstance. A written report of overflows which endanger health or the environment shall be provided to EPA and the New Mexico Environment Department, within 5 days of the time the permittee becomes aware of the circumstance. | Y | Review monthly and quarterly reports | Reviewed the LANL monthly and quarterly Discharge Monitoring Reports from January 2018 through April 2021. All the reports were submitted in timely manner. The overflows and any noncompliance events were properly reported addressed. As a positive practice we noticed that in addition of the oral notification (within 24 hours) an email confirming the call was submitted. |
| Part I.D | Application | A complete copy of application with original officer signature for permit renewal shall be sent to EPA and either a paper copy or an electronic copy shall be sent to New Mexico Environment Department (NMED) at the mailing address listed in Part III of this permit. | Y | Permit application accepted. | Draft permit issued. |
| Part I.E | Effluent Characteristic Analysis (Outfalls 051, 05a055 and 04a022) | During the term of this permit, if a discharge occurs at Outfall 051, Outfall 05A055 or Outfall 04A022, at the minimum of an one-time discharge effluent grab sample shall be taken for effluent characteristic analysis from the associated outfall as soon as practical. Effluent sample(s) shall be analyzed for pollutants listed in the New Mexico Water Quality Standards, 20.6.4 NMAC, section 900.J(2) Table of Numeric Criteria, which have at least one of the following criteria: irrigation, livestock watering, wildlife habitat, acute/chronic aquatic life, or persistent human health-organism only (HH-00) criteria. The permittee shall report analytical results to EPA within 30 days when full results become available. | Y | Review the field notes and reports. | Reviewed the LANL Discharge Monitoring Reports from January 2018 through April 2021. In addition, the Review Team reviewed the field logbooks from May 5, 2017 through February 18, 2021. |

### C.1.2 PART II: OTHER CONDITIONS

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| Part II.A | Minimum Quantitation Level (MQL) | If any individual analytical test result is less than the minimum quantification level listed in the Appendix A to this permit, a value of zero (0) may be used for that individual result for the Discharge Monitoring Report (DMR) calculations and reporting requirements. The permittee may develop an effluent specific method detection limit (MDL) in accordance with Appendix B to 40CFR136. For any pollutant for which the permittee determines an effluent specific MDL, the permittee shall send to the EPA Region 6 NPDES Permits Branch (6WQ-P) a report containing QNQC documentation, analytical results, and calculations necessary to demonstrate that the effluent specific MDL was correctly calculated. An effluent specific minimum quantification level (MQL)shall be determined in accordance with the following calculation: MQL = 3.3 x MDL Upon written approval by the EPA Region 6 NPDES Permits Branch (6WQ-P), the effluent specific MQL may be utilized by the permittee for all future Discharge Monitoring Report (DMR) reporting requirements. | Y | Review analytical reports. | Reviewed analytical reports. Compared those with Appendix A of Part II. |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| Part II.B | 24-Hour Oral Reporting | Under the provisions of Part III.D.7.b.(3) of this permit, violations of daily maximum limitations for the following pollutants shall be reported to EPA at the following e-mail address: R6_NPDES_Reporting@epa.gov and orally to the New Mexico Environment Department at (505) 827-0187, within 24 hours from the time the permittee becomes aware of the violation followed by a written report in five days.<br>Aluminum, Copper, Selenium, Zinc, Cyanide, TRC, and PCBs.<br>The permittee shall report all overflows with the Discharge Monitoring Report submittal. These reports shall be summarized and reported in tabular format. The summaries shall include: the date, time, duration, location, estimated volume, and cause of the overflow; observed environmental impacts from the overflow; actions taken to address the overflow; and ultimate discharge location if not contained (e.g., storm sewer system, ditch, tributary). Any noncompliance which may endanger health or the environment shall be made to the EPA at the following e-mail address: R6 _ NPDES Reporting@epa.gov, as soon as possible, but within 24-hours from the time the permittee becomes aware of the circumstance. This language supersedes that contained in Part III.D.7 of the Permit.<br>Additionally, oral notification shall also be to the New Mexico Environment Department at (505)827-0187 as soon as possible, but within 24 hours from the time the permittee becomes aware of the circumstance. A written report of overflows which endanger health or the environment shall be provided to EPA and the New Mexico Environment Department, within 5 days of the time the permittee becomes aware of the circumstance." | Y | Review Discharge Monitoring Reports and Exceedances Reports. | Reviewed the LANL Discharge Monitoring Reports and Exceedances from January 2018 through April 2021. The overflows and any noncompliance events were properly reported addressed. As a positive practice we noticed that in addition of the oral notification (within 24 hours) an email confirming the call was submitted. |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| Part II.C1 | Composite Sampling - Standard Provisions | Unless otherwise specified in this permit, the term "24-hour composite sample" means a sample consisting of a minimum of three (3) aliquots of effluent collected at regular intervals over a normal 24-hour operating period and combined in proportion to flow or a sample continuously collected in proportion to flow over a normal 24-hour operating period. | Y | Check the composite sampling equipment. Review the Technical Procedures for composite sampling. | On June 23, 2021, the Review Team observed the sampling evolution at Outfall 001. The sampling equipment was inspected and is in good condition. The composite sampler equipment was programmed for 24 hours. In addition, the Sampling Technical Procedures (EPC-CP-TP-1202) and Calibration/Standardization of Instruments Technical Procedures (EPC-CP-TP-1205) were reviewed. |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| Part II.C2 | Composite Sampling - Volatile Compounds | For the "24-hour composite" sampling of volatile compounds using EPA Methods 601, 602, 603, 624, 1624, or any other 40 CFR 136 method approved after the effective date of the permit, the permittee shall manually collect four (4) aliquots (grab samples) in clean zero head-space containers at regular intervals during the actual hours of discharge during the 24-hour sampling period using sample collection, preservation, and handling techniques specified in the test method. These aliquots must be combined in the laboratory to represent the composite sample of the discharge. One of the following alternative methods shall be used to composite these aliquots.a. Each aliquot is poured into a syringe. The plunger is added, and the volume in the syringe is adjusted to 1-1/4 ml. Each aliquot (1-1/4 ml.) is injected into the purging chamber of the purge and trap system. After four (4) injections (total 5 ml.), the chamber is purged. Only one analysis or run is required since the aliquots are combined prior to analysis.b. Chill the four (4) aliquots to 4 Degrees Centigrade. These aliquots must be of equal volume. Carefully pour the contents of each of the four aliquots into a 250-500 ml. flask which is chilled in a wet ice bath. Stir the mixture gently with a clean glass rod while in the ice bath. Carefully fill two (2) or more clean 40 ml. zero head-space vials from the flask and dispose of the remainder of the mixture. Analyze one of the aliquots to determine the concentration of the composite sample. The remaining aliquot(s) are replicate composite samples that can be analyzed if desired or necessary.c. Alternative sample compositing methods may be used following written approval by EPA Region 6.The individual samples resulting from application of these compositing methods shall be analyzed following the procedures specified for the selected test method. The resulting analysis shall be reported as the daily composite concentration.As an option to the above compositing methods, the permittee may manually collect four (4) aliquots (grab samples) in clean zero head-space containers at regular intervals during the actual hours of discharge during the 24-hour sampling period using sample collection, preservation, and handling techniques specified in the test method. A separate analysis shall be conducted for each discrete grab sample following the approved test methods. The determination of daily composite concentration shall be the arithmetic average (weighted by flow) of all grab samples collected during the 24-hour sampling period. | Y | Review the Technical Procedures for composite sampling. | The Sampling Technical Procedures (EPC-CP-TP-1202) and Calibration/Standardization of Instruments Technical Procedures (EPC-CP-TP-1205) were reviewed. |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| Part II.C3 | 3-Hour Composite Sample | The term "3-hour composite sample" means a sample consisting of a minimum of one (1) aliquot of effluent collected at a one-hour interval over a period of up to 3 hour discharge. | Y | Review the Technical Procedures for composite sampling. | The Sampling Technical Procedures (EPC-CP-TP-1202) and Calibration/Standardization of Instruments Technical Procedures (EPC-CP-TP-1205) were reviewed. However, based on our interview with LANL personnel the 3-Hour Composite samples are not collected. |
| Part II.D | Co-Permittees | The Triad National Security (Triad) and the U.S. Department of Energy (DOE) are co-permittees for the Los Alamos National Laboratory (LANL) NPDES permit. EPA may take enforcement actions as appropriate against either LANS or DOE or both. | Y | | NA |
| Part II.E | Reopener Clause | The permit may be reopened and modified during the life of the permit, in accordance with provisions in 40 CFR 122.62.<br>The permit may also be reopened and modified if the U.S. Fish and Wildlife Service determines that more stringent permit conditions are necessary to protect federally listed endangered species. | Y | | NA |
| Part II.F | Test Methods | The following methods may be used for analysis under this permit:<br>Methods Listed in 40 CFR 136.3<br>EPA Methods 1668A or later revision.<br>EPA Methods 904.0 and 903.1<br>Nitroaromatics and Nitramines by High Performance Liquids Chromatography: SW846 Method 8330 or 8330A.<br>Microwave Digestion: SW846 Method 3015<br>SW 846 Method 7742<br>Hot Plate Digestion: EPA Method 200.2 | Y | Review the analytical reports. | Reviewed analytical reports. Compared those with Appendix A of Part II. |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| Part II.G | Whole Hole Effluent Toxicity (7 Day Chronic NOEC) | It is unlawful and a violation of this permit for a permittee or his designated agent, to manipulate test samples in any manner, to delay sample shipment, or to terminate or to cause to terminate a toxicity test. Once initiated, all toxicity tests must be completed unless specific authority has been granted by EPA Region 6 or the State NPDES permitting authority. | Y | Review analytical reports and chains-of-custody. Review the Technical Procedures for WET sampling. | Reviewed analytical reports and chains-of-custody. Reviewed the Technical Procedures (EPC-CP-TP-1202) for WET sampling. |
| Part II.G1 | Scope and Methodology | a. The permittee shall test the effluent for toxicity in accordance with the provisions in this section.APPLICABLE TO FINAL OUTFALL(S): See Part IREPORTED ON DMR AS FINAL OUTFALL: See Part ICRITICAL DILUTION(%): Outfall 03A027- 23%Other Outfalls - 100%EFFLUENT DILUTION SERIES(%):Outfall 03A027- 10%, 13%, 17%,23%,31%Other Outfalls-32%,42%, 56%, 75%, 100%COMPOSITE SAMPLE TYPE: Defined at PART ITEST SPECIES/METHODS: 40 CFR Part 136 Ceriodaphnia dubia chronic static renewal survival and reproduction test, Method 1002.0, EP A-821-R -02-013, or the most recent update thereof. This test should be terminated when 60% of the surviving females in the control produce three broods or at the end of eight days, whichever comes first. Pimephales promelas (Fathead minnow) chronic static renewal 7-day larval survival and growth test, Method 1000.0, EPA-821-R-02-013, or the most recent update thereof. A minimum of five (5) replicates with eight (8) organisms per replicate must be used in the control and in each effluent dilution of this test. | Y | Review the WET test results Technical Procedures for WET sampling. | Reviewed analytical reports and chains-of-custody. Reviewed the Technical Procedures (EPC-CP-TP-1202) for WET sampling. On June 23, 2021, the Review Team observed the WET sampling evolution at Outfall 001. |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| | | b. The NOEC (No Observed Lethal Effect Concentration) is herein defined as the greatest effluent dilution at and below which lethality that is statistically different from the control (0% effluent) at the 95% confidence level does not occur. Chronic lethal test failure is defined as a demonstration of a statistically significant lethal effect at test completion to a test species at or below the critical dilution. Chronic sub-lethal test failure is defined as a demonstration of a statistically significant sub-lethal effect (i.e., growth or reproduction) at test completion to a test species at or below the critical dilution. | | | |
| | | c. This permit may be reopened to require additional WET limits, chemical specific effluent limits, additional testing, and/or other appropriate actions to address toxicity. | | | |
| Part II.G2 | Persistent Lethal and/or Sub-Lethal Effects | The requirements of this subsection apply only when a toxicity test demonstrates significant lethal and/or sub-lethal effects at or below the critical dilution. The purpose of additional tests (also referred to as 'retests' or confirmation tests) is to determine the duration of a toxic event. A test that meets all test acceptability criteria and demonstrates significant toxic effects does not need additional confirmation. Such testing cannot confirm or disprove a previous test result.<br>If any valid test demonstrates significant lethal or sub-lethal effects to a test species at or below the critical dilution, the frequency of testing for that species is automatically increased to once per quarter for the life of the permit. | Y | Review analytical reports and chains-of-custody. | Reviewed analytical reports and chains-of-custody. Reviewed the Technical Procedures (EPC-CP-TP-1202) sampling. |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| | | a. Part I Testing Frequency Other Than Monthly<br>i. The permittee shall conduct a total of three (3) additional tests for any species that demonstrates significant toxic effects at or below the critical dilution. The additional tests shall be conducted monthly during the next three consecutive months. If testing on a quarterly basis, the permittee may substitute one of the additional tests in lieu of one routine toxicity test. A full report shall be prepared for each test required by this section in accordance with procedures outlined in Item 4 of this section and submitted with the period discharge monitoring report (DMR) to the permitting authority for review.<br>ii. If Lethal Effects Have Been Demonstrated If any of the additional tests demonstrates significant lethal effects at or below the critical dilution, the permittee shall initiate Toxicity Reduction Evaluation (TRE) requirements as specified in Item 5 of this section. The permittee shall notify EPA in writing within 5 days of the failure of any retest, and the TRE initiation date will be the test completion date of the first failed retest. A TRE may be also be required due to a demonstration of-intermittent lethal effects at or below the critical dilution, or for failure to perform the required retests.<br>iii. If Only Sub-Lethal Effects Have Been Demonstrated If any two of the three additional tests demonstrate significant sub-lethal effects at 75% effluent or lower, the permittee shall initiate the Sub-Lethal Toxicity Reduction Evaluation (TREsL) requirements as specified in Item 5 of this section. The permittee shall notify EPA in writing within 5 days of the failure of any retest, and the Sub-Lethal Effects TRE initiation date will be the test completion date of the first failed retest. A TRE may be also be required for failure to perform the required retests.<br>iv. The provisions of Item 2.a.i. are suspended upon submittal of the TRE Action Plan. | | | |
| | | b. Part I Testing Frequency of Monthly<br>The permittee shall initiate the Toxicity Reduction Evaluation (TRE) requirements as specified in Item 5 of this section when any two of three consecutive monthly toxicity tests exhibit significant lethal effects at or below the critical dilution. A TRE may also be required due to a demonstration of intermittent lethal and/or sub-lethal effects at or below the critical dilution, or for failure to perform the required retests. | | | |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| Part II.G3 | Required Toxicity Testing Conditions | a. Test AcceptanceThe permittee shall repeat a test, including the control and all effluent dilutions, if the procedures and quality assurance requirements defined in the test methods or in this permit are not satisfied, including the following additional criteria:1. The toxicity test control (0% effluent) must have survival equal to or greater than 80%.ii. The mean number of Ceriodaphnia dubia neonates produced per surviving female in the control (0% effluent) must be 15 or more.iii. 60% of the surviving control females must produce three broods.IV. The mean dry weight of surviving Fathead minnow larvae at the end of the 7 days in the control (0% effluent) must be 0.25 mg per larva or greater.v. The percent coefficient of variation between replicates shall be 40% or less in the control (0% effluent) for: the young of surviving females in the Ceriodaphnia dubia reproduction test; the growth and survival endpoints of the Fathead minnow test.vi. The percent coefficient of variation between replicates shall be 40% or less in the critical dilution, unless significant lethal or nonlethal effects are exhibited for: the young of surviving females in the Ceriodaphnia dubia reproduction test; the growth and survival endpoints of the Fathead minnow test.vii. A Percent Minimum Significant Difference (PMSD) range of 13 -47 for Ceriodaphnia dubia reproduction;viii. A PMSD range of 12-30 for Fathead minnow growth.Test failure may not be construed or reported as invalid due to a coefficient of variation value of greater than 40%. A repeat test shall be conducted within the required reporting period of any test determined to be invalid. | Y | Review analytical reports and chains-of-custody. Review the Technical Procedures for sampling. | Reviewed analytical reports and chains-of-custody. Reviewed the Technical Procedures (EPC-CP-TP-1202) for WET sampling. |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| | | b. Statistical Interpretation<br>i. For the Ceriodaphnia dubia survival test, the statistical analyses used to determine if there is a significant difference between the control and the critical dilution shall be Fisher's Exact Test as described in EPA/821/R-02-013 or the most recent update thereof.<br>ii. For the Ceriodaphnia dubia reproduction test and the Fathead minnow larval survival and growth test, the statistical analyses used to determine if there is a significant difference between the control and the critical dilution shall be in accordance with the methods for determining the No Observed Effect Concentration (NOEC) as described in EPA/821/R-02-013 or the most recent update thereof.<br>iii. If the conditions of Test Acceptability are met in Item 3.a above and the percent survival of the test organism is equal to or greater than 80%-in the critical dilution concentration and all lower dilution concentrations, the test shall be considered to be a passing test, and the permittee shall report a survival NOEC of not less than the critical dilution for the DMR reporting requirements found in Item 4 below. | | | |
| | | c. Dilution Water<br>i. Dilution water used in the toxicity tests will be receiving water collected as close to the point of discharge as possible but unaffected by the discharge. The permittee shall substitute synthetic dilution water of similar pH, hardness, and alkalinity to the closest downstream perennial water for;<br>A. toxicity tests conducted on effluent discharges to receiving water classified as intermittent streams; and<br>AA. toxicity tests conducted on effluent discharges where no receiving water is available due to zero flow conditions. | | | |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| | | ii. If the receiving water is unsatisfactory as a result of instream toxicity (fails to fulfill the test acceptance criteria), the permittee may substitute synthetic dilution water for the receiving water in all subsequent tests provided the unacceptable receiving water test met the following stipulations:<br>i. a synthetic dilution water control which fulfills the test acceptance require-ments was run concurrently with the receiving water control;<br>ii. the test indicating receiving water toxicity has been carried out to completion,<br>iii. the permittee includes all test results indicating receiving water toxicity with the full report and information required; and<br>iv. the synthetic dilution water shall have a pH, hardness, and alkalinity similar to that of the receiving water or closest downstream perennial water not adversely affected by the discharge, provided the magnitude of these parameters will not cause toxicity in the synthetic dilution water. | | | |
| | | d. Samples and Composites<br>i. The permittee shall collect a minimum of three flow-weighted composite samples from the outfall(s) listed at Item Ia above. | | | |
| | | ii. The permittee shall collect second and third composite samples for use during 24-hour renewals of each dilution concentration for each test. The permittee must collect the composite samples such that the effluent samples are representative of any periodic episode of chlorination, biocide usage or other potentially toxic substance discharged on an intermittent basis. | | | |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| | | iii. The permittee must collect the composite samples so that the maximum holding time for any effluent sample shall not exceed 72 hours. The permittee must have initiated the toxicity test within 36 hours after the collection of the last portion of the first composite sample. Samples shall be chilled to 6 degrees Centigrade during collection, shipping, and/or storage.iv. If the flow from the outfall(s) being tested ceases during the collection of effluent samples, the requirements for the minimum number of effluent samples, the minimum number of effluent. portions and the sample holding time are waived during that sampling period. However, the permittee must collect an effluent composite sample volume during the period of discharge that is sufficient to complete the required toxicity tests with daily renewal of effluent. When possible, the effluent samples used for the toxicity tests shall be collected on separate days if the discharge occurs over multiple days. The effluent composite sample collection duration and the static renewal protocol associated with the abbreviated sample collection must be documented in the full report required in Item 4 of this section. | | | |
| | | v. Multiple Outfalls: If the provisions of this section are applicable to multiple outfalls, the permittee shall combine the composite effluent samples in proportion to the average flow from the outfalls listed in item I.a. above for the day the sample was collected. The permittee shall perform the toxicity test on the flow-weighted composite of the outfall samples. | | | |
| Part II.G4 | Reporting | a. The permittee shall prepare a full report of the results of all tests conducted pursuant to this section in accordance with the Report Preparation Section of EPA/821/R-02-013, or the most current publication, for every valid or invalid toxicity test initiated whether carried to completion or not. The permittee shall retain each full report pursuant to the provisions of PART III.C.3 of this permit. The permittee shall submit full reports upon the specific request of the Agency. For any test which fails, is considered invalid or which is terminated early for any reason, the full report must be submitted for agency review. | Y | Review the field notes and reports. | Reviewed the LANL Discharge Monitoring Reports and Exceedances from January 2018 through April 2021. In addition, the Review Team reviewed the field logbooks from May 5, 2017, through February 18, 2021. |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| | | b. A valid test for each species must be reported on the DMR during each reporting period specified in PART I of this permit unless the permittee is performing a TRE which may increase the frequency of testing and reporting. Only ONE set of biomonitoring data for each species is to be recorded on the DMR for each reporting period. The data submitted should reflect the LOWEST lethal and sub-lethal effects results for each species during the reporting period. All invalid tests, repeat tests (for invalid tests), and retests (for tests previously failed) performed during the reporting period must be attached to the DMR for EPA review. | | | |
| | | c. The permittee shall submit the results of each valid toxicity test on the subsequent monthly DMR for that reporting period in accordance with PART III.D.4 of this permit, as follows below. Submit retest information clearly marked as such with the following month's DMR. Only results of valid tests are to be reported on the DMR. | | | |
| | | d. Enter the following codes on the DMR for retests only:<br>For retest number 1, Parameter 22415, enter a '1' if the NOEC for survival and/or sub-lethal effects is less than the critical dilution; otherwise, enter a '0'<br>For retest number 2, Parameter 22416, enter a '1' if the NOEC for survival and/or sub-lethal effects is less than the critical dilution; otherwise, enter a '0'<br>For retest number 3, Parameter 51443, enter a '1' if the NOEC for survival and/or sub-lethal effects is less than the critical dilution; otherwise, enter a '0' | | | |
| Part II.G5 | Toxicity Reduction Evaluation (TRE) | TREs for lethal and sub-lethal effects are performed in a very similar manner. EPA Region 6 is currently addressing TREs as follows: a sub-lethal TRE (TREs1) is triggered based on three sub-lethal test failures while a lethal effects TRE (TRE1) is triggered based on only two test failures for lethality. In addition, EPA Region 6 will consider the magnitude of toxicity and use flexibility when considering a TREs1 where there are no effects at effluent dilutions of less than 76% effluent. | Y | Review the TRE Action Plan. | According to LANL, there were no TRE Action Plans in the last three years. |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| | | a. Within ninety (90) days of confirming persistent toxicity, the permittee shall submit a Toxicity Reduction Evaluation (TRE) Action Plan and Schedule for conducting a TRE. The TRE Action Plan shall specify the approach and methodology to be used in performing the TRE. A Toxicity Reduction Evaluation is an investigation intended to determine those actions necessary to achieve compliance with water quality-based effluent limits by reducing an effluent's toxicity to an acceptable level. A TRE is defined as a step-wise process which combines toxicity testing and analyses of the physical and chemical characteristics of a toxic effluent to identify the constituents causing effluent toxicity and/or treatment methods which will reduce the effluent toxicity. The goal of the TRE is to maximally reduce the toxic effects of effluent at the critical dilution and includes the following: | | | |
| | | i. Specific Activities. The plan shall detail the specific approach the permittee intends to utilize in conducting the TRE. The approach may include toxicity characterizations, a Toxicity Identification Evaluation (TIE) and confirmation activities, source evaluation, treatability studies, or alternative approaches. When the permittee conducts Toxicity Identification Evaluations to characterize the nature of the constituents causing toxicity, the permittee shall perform multiple characterizations and follow the procedures specified in the documents "Methods for Aquatic Toxicity Identification Evaluations: Phase I Toxicity Characterization Procedures" (EPA 600/6-91/003) or alternate procedures. When the permittee conducts Toxicity Identification Evaluations and Confirmations, the permittee shall perform multiple identifications and follow the methods specified in the documents "Methods for Aquatic Toxicity Identification Evaluations, Phase II Toxicity Identification Procedures for Samples Exhibiting Acute and Chronic Toxicity" (EPA/600/R-92/080) and "Methods for Aquatic Toxicity Identification Evaluations, Phase III Toxicity Confirmation Procedures for Samples Exhibiting Acute and Chronic Toxicity" (EPA/600/R-92/081), as appropriate. | | | |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| | | ii. Sampling Plan (e.g., locations, methods, holding times, chain of custody, preservation, etc.). The effluent sample volume collected for all tests shall be adequate to perform the toxicity test, toxicity characterization, identification and confirmation procedures, and conduct chemical specific analyses when a probable toxicant has been identified.<br>Where the permittee has identified or suspects specific pollutant(s) and/or source(s) of effluent toxicity, the permittee shall conduct, concurrent with toxicity testing, chemical specific analyses for the identified and/or suspected pollutant(s) and/or source(s) of effluent toxicity. Where lethality was demonstrated within 48 hours of test initiation, each composite sample shall be analyzed independently.<br>Otherwise, the permittee may substitute a composite sample, comprised of equal portions of the individual composite samples, for the chemical specific analysis. | | | |
| | | iii. Quality Assurance Plan (e.g., QA/QC implementation, corrective actions, etc.); and | | | |
| | | iv. Project Organization (e.g., project staff, project manager, consulting services, etc.). | | | |
| | | A. The permittee shall initiate the TRE Action Plan within thirty (30) days of plan and schedule submittal. The permittee shall assume all risks for failure to achieve the required toxicity reduction. | | | |
| | | B. The permittee shall submit a quarterly TRE Activities Report, with the Discharge Monitoring Report in the months of January, April, July and October, containing information on toxicity reduction evaluation activities including:<br>any data and/or substantiating documentation which identifies the pollutant(s) and/or source(s) of effluent toxicity;<br>any studies/evaluations and results on the treatability of the facility's effluent toxicity; and any data which identifies effluent toxicity control mechanisms that will reduce effluent toxicity to the level necessary to meet no significant lethality at the critical dilution.<br>A copy of the TRE Activities Report shall also be submitted to the state agency. | | | |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| | | d. Finalizing a TRE<br>The permittee shall submit a Final Report on Toxicity Reduction Evaluation Activities no later than twenty-eight (28) months from confirming lethality in the retests, which provides information pertaining to the specific control mechanism selected that will, when implemented, result in reduction of effluent toxicity to no significant lethality at the critical dilution. The report will also provide a specific corrective action schedule for implementing the selected control mechanism.<br>A copy of the Final Report on Toxicity Reduction Evaluation Activities shall also be submitted to the state agency. | | | |
| | | e. Quarterly testing during the TRE is a minimum monitoring requirement. EPA recommends that permittees required to perform a TRE not rely on quarterly testing alone to ensure success in the TRE, and that additional screening tests be performed to capture toxic samples for identification of toxicants. Failure to identify the specific chemical compound causing toxicity test failure will normally result in a permit limit for whole effluent toxicity limits per federal regulations at 40 CFR 122.44(d)(1)(v). | | | |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| Part II.G6 | Monitoring Frequency Reduction | a. The permittee may apply for a testing frequency reduction upon the successful completion of the first four consecutive quarters of testing for one or both test species, with no lethal or sub-lethal effects demonstrated at or below the critical dilution. If granted, the monitoring frequency for that test species may be reduced to not less than once per year for the less sensitive species (usually the Fathead minnow) and not less than twice per year for the more sensitive. test species (usually the Ceriodaphnia dubia).<br>b. CERTIFICATION- The permittee must certify in writing that no test failures have occurred and that all tests meet all test acceptability criteria in item 3.a. above. In addition, the permittee must provide a list with each test performed including test initiation date, species, NOECs for lethal and sub-lethal effects and the maximum coefficient of variation for the controls. Upon review and acceptance of this information the agency will issue a letter of confirmation of the monitoring frequency reduction. A copy of the letter will be forwarded to the agency's Permit Compliance System section to update the permit reporting requirements.<br>c. SUB-LETHAL OR SURVIVAL FAILURES - If any test fails the survival or sub-lethal endpoint at any time during the life of this permit, three monthly retests are required and the monitoring frequency for the affected test species shall be increased to once per quarter until the permit is re-issued. Monthly retesting is not required if the permittee is performing a TRE. Any monitoring frequency reduction granted applies only until the expiration date of this permit, at which time the monitoring frequency for both test species reverts to once per quarter until the permit is re-issued. | Y | Review the field notes and reports. | Reviewed the LANL Discharge Monitoring Reports from January 2018 through April 2021. In addition, the Review Team reviewed the field logbooks from May 5, 2017 through February 18, 2021. |
| Part II.H | Whole Effluent Toxicity (48-Hour Acute NOEC) | It is unlawful and a violation of this permit for a permittee or his designated agent, to manipulate test samples in any manner, to delay sample shipment, or to terminate or to cause to terminate a toxicity test. Once initiated, all toxicity tests must be completed unless specific authority has been granted by EPA Region 6 or the State NPDES permitting authority. | Y | Review analytical reports and chains-of-custody. Review the Technical Procedures for WET sampling. | Reviewed analytical reports and chains-of-custody. Reviewed the Technical Procedures (EPC-CP-TP-1202) for WET sampling. |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| Part II.H1 | Scope and Methodology | a. The permittee shall test the effluent for toxicity in accordance with the provisions in this section (see table in permit). | Y | Review the WET test results Technical Procedures for WET sampling. | Reviewed analytical reports and chains-of-custody. Reviewed the Technical Procedures (EPC-CP-TP-1202) for WET sampling. On June 22, 2021, the Review Team observed the WET sampling evolution at Outfall 051. |
| | | b. The NOEC (No Observed Lethal Effect Concentration) is herein defined as the greatest effluent dilution at and below which lethality that is statistically different from the control (0% effluent) at the 95% confidence level does not occur. Chronic lethal test failure is defined as a demonstration of a statistically significant lethal effect at test completion to a test species at or below the critical dilution. Chronic sub-lethal test failure is defined as a demonstration of a statistically significant sub-lethal effect (i.e., growth or reproduction) at test completion to a test species at or below the critical dilution. | | | |
| | | c. This permit may be reopened to require additional WET limits, chemical specific effluent limits, additional testing, and/or other appropriate actions to address toxicity. | | | |
| Part II.H2 | Persistent Lethality | The requirements of this subsection apply only when a toxicity test demonstrates significant lethal effects at or below the critical dilution. Significant lethal effects are herein defined as a statistically significant difference at the 95% confidence level between the survival of the appropriate test organism in a specified effluent dilution and the control (0% effluent). The purpose of additional tests (also referred to as 'retests' or confirmation tests) is to determine the duration of a toxic event. A test that meets all test acceptability criteria and demonstrates significant toxic effects does not need additional confirmation. Such testing cannot confirm or disprove a previous test result.<br>If any valid test demonstrates significant lethal effects to a test species at or below the critical dilution, the frequency of testing for this species is automatically increased to once per quarter with no option for frequency reduction. | Y | Review analytical reports and chains-of-custody. Review the Technical Procedures for WET sampling. | Reviewed analytical reports and chains-of-custody. Reviewed the Technical Procedures (EPC-CP-TP-1202) for WET sampling. On June 22, 2021, the Review Team observed the WET sampling evolution at Outfall 051. |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| | | a. Part I Testing Frequency Other Than Monthly<br>i. The permittee shall conduct a total of three (3) additional tests for any species that demonstrates significant lethal effects at or below the critical dilution. The additional tests shall be conducted monthly during the next three consecutive months. If testing on a quarterly basis, the permittee may substitute one of the additional tests in lieu<br>of one routine toxicity test. A full report shall be prepared for each test required by this section in accordance with procedures outlined in Item 4 of this section and submitted with the period discharge monitoring report (DMR) to the permitting authority for review.<br>ii. If any of the additional tests demonstrates significant lethal effects at or below the critical dilution, the permittee shall initiate Toxicity Reduction Evaluation (TRE) requirements as specified in Item 5 of this section. The permittee shall notify EPA in writing within 5 days of the failure of any retest, and the TRE initiation date will be the<br>test completion date of the fust failed retest. A TRE may be also be required due to a demonstration of intermittent lethal effects at or below the critical dilution, or for failure to perform the required retests.<br>iii. The provisions of item 2.a are suspended upon submittal of the TRE Action Plan. | | | |
| | | b. Part I Testing Frequency of Monthly<br>The permittee shall initiate the Toxicity Reduction Evaluation (TRE) requirements as specified in Item 5 of this section when any two of three consecutive monthly toxicity tests exhibit significant lethal effects at or below the critical dilution. A TRE may also be required due to a demonstration of intermittent lethal effects at or below the critical dilution, or for failure to perform the required retests. | | | |
| Part II.H3 | Required Toxicity Testing Conditions | The permittee shall repeat a test, including the control and all effluent dilutions, if the procedures and quality assurance requirements defined in the test methods or in this permit are not satisfied, including the following additional criteria: (see table in permit) | Y | Review analytical reports and chains-of- | Reviewed analytical reports and chains-of-custody. Reviewed the Technical Procedures (EPC-CP-TP- |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| | | a. Test Acceptance<br>The permittee shall repeat a test, including the control and all effluent dilutions, if the procedures and quality assurance requirements defined in the test methods or in this permit are not satisfied, including the following additional criteria:<br>i. Each toxicity test control (0% effluent) must have a survival equal to or greater than 90%.<br>ii. The percent coefficient of variation between replicates shall be 40% or less in the control (0% effluent) for: Daphnia pulex survival test.<br>iii. The percent coefficient of variation between replicates shall be 40% or less in the critical dilution, unless significant lethal effects are exhibited for: Daphnia pulex survival test. Test failure may not be construed or reported as invalid due to a coefficient of variation value of greater than 40%. A repeat test shall be conducted within the required reporting period of any test determined to be invalid. | | custody. Review the Technical Procedures for WET sampling. | 1202) for WET sampling. On June 22, 2021, the Review Team observed the WET sampling evolution at Outfall 051. |
| | | b. Statistical InterpretationFor the Daphnia pulex survival test, the statistical analyses used to determine if there is a statistically significant difference between the control and the critical dilution shall be in accordance with the methods for determining the No Observed Effect Concentration (NOEC) as described in EPA-821-R-02-012 or the most recent update thereof.If the conditions of Test Acceptability are met in Item 3.a above and the percent survival of the test organism is equal to or greater than 90% in the critical dilution concentration and all lower dilution concentrations, the test shall be considered to be a passing test, and the permittee shall report an NOEC of not less than the critical dilution for the DMR reporting requirements found in Item 4 below. | | | |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| | | c. Dilution Water<br>i. Dilution water used in the toxicity tests will be receiving water collected as close to the point of discharge as possible but unaffected by the discharge. The permittee shall substitute synthetic dilution water of similar pH, hardness, and alkalinity to the closest downstream perennial water for;<br>(A) toxicity tests conducted on effluent discharges to receiving water classified as intermittent streams; and<br>(B) toxicity tests conducted on effluent discharges where no receiving water is available due to zero flow conditions.<br>ii. If the receiving water is unsatisfactory as a result of instream toxicity (fails to fulfill the test acceptance criteria of Item 3.a), the permittee may substitute synthetic dilution water for the receiving water in all subsequent tests provided the unacceptable receiving water test met the following stipulations:<br>(A) a synthetic dilution water control which fulfills the test acceptance requirements of Item 3.a was run concurrently with the receiving water control;<br>(B) the test indicating receiving water toxicity has been carried out to completion (i.e., 48 hours);<br>(C) the permittee includes all test results indicating receiving water toxicity with the full report and information required by Item 4 below; and<br>(D) the synthetic dilution water shall have a pH, hardness, and alkalinity similar to that of the receiving water or closest downstream perennial water not adversely affected by the discharge, provided the magnitude of these parameters will not cause toxicity in the synthetic dilution water. | | | |
| | | d. Samples and Composites<br>i. The permittee shall collect two flow-weighted composite samples from the outfall(s) listed at Item La above. | | | |
| | | ii. The permittee shall collect a second composite sample for use during the 24-hour renewal of each dilution concentration for both tests. The permittee must collect the composite samples so that the maximum holding time for any effluent sample shall not exceed 36 hours. The permittee must have initiated the toxicity test within 36 hours after the collection of the last | | | |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| | | portion of the first composite sample. Samples shall be chilled to 6 degrees Centigrade during collection, shipping, and/or storage. | | | |
| | | iii. The permittee must collect the composite samples such that the effluent samples are representative of any periodic episode of chlorination, biocide usage or other potentially toxic substance discharged on an intermittent basis. | | | |
| | | iv. If the flow from the outfall(s) being tested ceases during the collection of effluent samples, the requirements for the minimum number of effluent samples, the minimum number of effluent portions and the sample holding time are waived during that sampling period. However, the permittee must collect an effluent composite sample volume during the period of discharge that is sufficient to complete the required toxicity tests with daily renewal of effluent. When possible, the effluent samples used for the toxicity tests shall be collected on separate days. The effluent composite sample collection duration and the static renewal protocol associated with the abbreviated sample collection must be documented in the full report required in Item 4 of this section. | | | |
| Part II.H4 | Reporting | a. The permittee shall prepare a full report of the results of all tests conducted pursuant to this Part in accordance with the Report Preparation Section of EP A-821-R-02-012, for every valid or invalid toxicity test initiated, whether carried to completion or not. The permittee shall retain each full report pursuant to the provisions of PART III.C.3 of this permit. The permittee shall submit full reports upon the specific request of the Agency. For any test which fails, is considered invalid or which is terminated early for any reason, the full report must be submitted for agency review. | Y | Review the field notes and reports. | Reviewed the LANL Discharge Monitoring Reports and Exceedances from January 2018 through April 2021. In addition, the Review Team reviewed the field logbooks from May 5, |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| | | b. A valid test for each species must be reported on the DMR during each reporting period specified in PART I of this permit unless the permittee is performing a TRE, which may increase the frequency of testing and reporting. Only ONE set of biomonitoring data for each species is to be recorded on the DMR for each reporting period. The data submitted should reflect the LOWEST Survival results for each species during the reporting period. All invalid tests, repeat tests (for invalid tests), and retests (for tests previously failed) performed during the reporting period must be attached to the DMR for EPA review. | | | 2017 through February 18, 2021. |
| | | c. The permittee shall report the following results of each valid toxicity test on the subsequent monthly DMR for that reporting period in accordance with PART III.D.4 of this permit. Submit retest information clearly marked as such with the following month's DMR. Only results of valid tests are to be reported on the DMR. | | | |
| | | d. Enter the following codes on the DMR for retests only:<br>i. For retest number 1, Parameter 22415, enter a "1" if the NOEC for survival is less than the critical dilution; otherwise, enter a "0."<br>ii. For retest number 2, Parameter 22416, enter a "1" if the NOEC for survival is less than the critical dilution; otherwise, enter a "0." | | | |
| Part II.H5 | Toxicity Reduction Evaluation (TRE) | A TRE is triggered following two test failures (a failure followed by one retest failure). | | | |
| | | a. Within ninety (90) days of confirming lethality in the retests, the permittee shall submit a Toxicity Reduction Evaluation (TRE) Action Plan and Schedule for conducting a TRE. The TRE Action Plan shall specify the approach and methodology to be used in performing the TRE. A Toxicity Reduction Evaluation is an investigation intended to determine those actions necessary to achieve compliance with water quality-based effluent limits by reducing an effluent's toxicity to an acceptable level. A TRE is defined as a step-wise process which combines toxicity testing and analyses of the physical and chemical characteristics of a toxic effluent to identify the constituents causing effluent toxicity and/or treatment methods which will reduce the effluent toxicity. The TRE Action Plan shall lead to the successful | Y | Review the TRE Action Plan. | According to LANL, there were no TRE Action Plans in the last three years. |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| | | elimination of effluent toxicity at the critical dilution and include the following: | | | |
| | | i. Specific Activities. The plan shall detail the specific approach the permittee intends to utilize in conducting the TRE. The approach may include toxicity characterizations, identifications and confirmation activities, source evaluation, treatability studies, or alternative approaches. When the permittee conducts Toxicity Characterization Procedures the permittee shall perform multiple characterizations and follow the procedures specified in the documents "Methods for Aquatic Toxicity Identification Evaluations: Phase I Toxicity Characterization Procedures" (EPA-600/6-91/003) or alternate procedures. When the permittee conducts Toxicity Identification Evaluations and Confirmations, the permittee shall perform multiple identifications and follow the methods specified in the documents "Methods for Aquatic Toxicity Identification Evaluations, Phase II Toxicity Identification Procedures for Samples Exhibiting Acute and Chronic Toxicity" (EP A/600/R-92/080) and "Methods for Aquatic Toxicity Identification Evaluations, Phase III Toxicity Confirmation Procedures for Samples Exhibiting Acute and Chronic Toxicity" (EPA/600-/R -92/081 ), as appropriate. | | | |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| | | ii. Sampling Plan (e.g., locations, methods, holding times, chain of custody, preservation, etc.). The effluent sample volume collected for all tests shall be adequate to perform the toxicity test, toxicity characterization, identification and confirmation procedures, and conduct chemical specific analyses when a probable toxicant has been identified; Where the permittee has identified or suspects specific pollutant(s) and/or source(s) of effluent toxicity, the permittee shall conduct, concurrent with toxicity testing, chemical specific analyses for the identified and/or suspected pollutant(s) and/or source(s) of effluent toxicity. Where lethality was demonstrated within 24 hours of test initiation, each composite sample shall be analyzed independently. Otherwise the permittee may substitute a composite sample comprised of equal portions of the individual composite samples, for the chemical specific analysis; | | | |
| | | iii. Quality Assurance Plan (e.g., QA/QC implementation, corrective actions, etc.); and<br>iv. PAGE 22 OF PART II Project Organization (e.g., project staff, project manager, consulting services, etc.). | | | |
| | | b. The permittee shall submit a Final Report on Toxicity Reduction Evaluation Activities no later than twenty-eight (28) months from confirming lethality in the retests, which provides information pertaining to the specific control mechanism selected that will, when implemented, result in reduction of effluent toxicity to no significant lethality at the critical dilution. The report will also provide a specific corrective action schedule for implementing the selected control mechanism. A copy of the Final Report on Toxicity Reduction Evaluation Activities shall also be submitted to the state agency. | | | |
| | | c. The permittee shall submit a quarterly TRE Activities Report, with the Discharge Monitoring Report in the months of January, April, July and October, containing information on toxicity reduction evaluation activities including: | | | |
| | | i. Any data and/or substantiating documentation which identifies the pollutant(s) and/or source(s) of effluent toxicity; | | | |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| | | ii. Any studies/evaluations and results on the treatability of the facility's effluent toxicity; and | | | |
| | | iii. Any data which identifies effluent toxicity control mechanisms that will reduce effluent toxicity to the level necessary to meet no significant toxicity at the critical dilution. A copy of the TRE Activities Report shall also be submitted to the state agency. | | | |
| | | d. Finalizing a TRE<br>The permittee shall submit a final report on TRE activities no later than twenty-eight (28) months from confirming toxicity in the retests, which provides information pertaining to the specific control mechanism selected that will, when implemented, result in reduction of effluent toxicity to no significant toxicity at the critical dilution. The report will also provide a specific corrective action schedule for implementing the selected control mechanism. A copy of the final report on TRE Activities shall also be submitted to the state agency.<br>A TRE may be stopped if there is no toxicity at the critical dilution for a period of 12 consecutive months (with at least monthly testing) following confirmation of toxicity in the retests. The permittee would submit a final report to EPA at that time. | | | |
| | | e. Quarterly testing during the TRE is a minimum monitoring requirement. EPA recommends that permittees required to perform a TRE not rely on quarterly testing alone to ensure success in the TRE, and that additional screening tests be performed to capture toxic samples for identification of toxicants. Failure to identify the specific chemical compound causing toxicity test failure will normally result in a permit limit for whole effluent toxicity limits per federal regulations at 40 CFR 122.44(d)(1)(v). | | | |
| Part II.I | Whole Effluent Toxicity (48-Hour Acute NOEC Freshwater) | It is unlawful and a violation of this permit for a permittee or his designated agent, to manipulate test samples in any manner, to delay sample shipment, or to terminate or to cause to terminate a toxicity test. Once initiated, all toxicity tests must be completed unless specific authority has been granted by EPA Region 6 or the State NPDES permitting authority. | Y | Review analytical reports and chains-of-custody. Review the Technical Procedures | Reviewed analytical reports and chains-of-custody. Reviewed the Technical Procedures (EPC-CP-TP-1202) for WET sampling. |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| | | | | for WET sampling. | |
| Part II.I1 | Scope and Methodology | a. The permittee shall test the effluent for toxicity in accordance with the provisions in this section (see table in permit). | Y | Review the WET test results Technical Procedures for WET sampling. | Reviewed analytical reports and chains-of-custody. Reviewed the Technical Procedures (EPC-CP-TP-1202) for WET sampling. On June 22, 2021, the Review Team observed the WET sampling evolution at Outfall 051. |
| | | b. The NOEC (No Observed Lethal Effect Concentration) is herein defined as the greatest effluent dilution at and below which lethality that is statistically different from the control (0% effluent) at the 95% confidence level does not occur. Chronic lethal test failure is defined as a demonstration of a statistically significant lethal effect at test completion to a test species at or below the critical dilution. Chronic sub-lethal test failure is defined as a demonstration of a statistically significant sub-lethal effect (i.e., growth or reproduction) at test completion to a test species at or below the critical dilution. | | | |
| | | c. This permit may be reopened to require additional WET limits, chemical specific effluent limits, additional testing, and/or other appropriate actions to address toxicity. | | | |
| | | d. Test failure is defined as a demonstration of statistically significant lethal effects to a test species at or below the effluent critical dilution. | | | |
| | | e. This permit does not establish requirements to automatically increase the WET testing frequency after a test failure, or to begin a toxicity reduction evaluation (TRE) in the event of multiple test failures. However, upon failure of any WET test, the permittee must report the test results to NMED, Surface Water Quality Bureau, in writing, within 5 business days of notification the test failure. NMED will review the test results and determine the appropriate action necessary, if any. | | | |
| Part II.I2 | Required Toxicity Testing Conditions | The permittee shall repeat a test, including the control and all effluent dilutions, if the procedures and quality assurance requirements defined in the test methods or in this permit are not satisfied, including the following additional criteria: (see table in permit) | Y | Review analytical reports and chains-of- | Reviewed analytical reports and chains-of-custody. Reviewed the Technical Procedures (EPC-CP-TP- |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| | | a. Test Acceptance<br>The permittee shall repeat a test, including the control and all effluent dilutions, if the procedures and quality assurance requirements defined in the test methods or in this permit are not satisfied, including the following additional criteria:<br>i. Each toxicity test control (0% effluent) must have a survival equal to or greater than 90%.<br>ii. The percent coefficient of variation between replicates shall be 40% or less in the control (0% effluent).<br>iii. The percent coefficient of variation between replicates shall be 40% or less in the critical dilution, unless significant lethal effects are exhibited for: Daphnia pulex survival test. Test failure may not be construed or reported as invalid due to a coefficient of variation value of greater than 40%. A repeat test shall be conducted within the required reporting period of any test determined to be invalid. | | custody. Review the Technical Procedures for WET sampling. | 1202) for WET sampling. On June 22, 2021, the Review Team observed the WET sampling evolution at Outfall 051. |
| | | b. Statistical Interpretation<br>The statistical analyses used to determine ifthere is a statistically significant difference between the control and the critical dilution shall be in accordance with the methods for determining the No Observed Effect Concentration (NOEC) as described in EPA-821-R-02-012 or the most recent update thereof.<br>If the conditions of Test Acceptability are met in Item 2.a above and the percent survival of the test organism is equal to or greater than 90% in the critical dilution concentration and all lower dilution concentrations, the test shall be considered to be a passing test, and the permittee shall report an NOEC of not less than the critical dilution for the reporting requirements found in Item 3 below. | | | |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| | | c. Dilution Water<br>i. Dilution water used in the toxicity tests will be receiving water collected as close to the point of discharge as possible but unaffected by the discharge. The permittee shall substitute synthetic dilution water of similar pH, hardness, and alkalinity to the closest downstream perennial water for;<br>(A) toxicity tests conducted on effluent discharges to receiving water classified as intermittent streams; and<br>(B) toxicity tests conducted on effluent discharges where no receiving water is available due to zero flow conditions.<br>ii. If the receiving water is unsatisfactory as a result of instream toxicity (fails to fulfill the test acceptance criteria of Item 3.a), the permittee may substitute synthetic dilution water for the receiving water in all subsequent tests provided the unacceptable receiving water test met the following stipulations:<br>(A) a synthetic dilution water control which fulfills the test acceptance requirements of Item 3.a was run concurrently with the receiving water control;<br>(B) the test indicating receiving water toxicity has been carried out to completion (i.e., 48 hours);<br>(C) the permittee includes all test results indicating receiving water toxicity with the full report and information required by Item 4 below; and<br>(D) the synthetic dilution water shall have a pH, hardness, and alkalinity similar to that of the receiving water or closest downstream perennial water not adversely affected by the discharge, provided the magnitude of these parameters will not cause toxicity in the synthetic dilution water. | | | |
| | | d. Samples and Composites<br>i. The permittee shall collect two flow-weighted composite samples from the outfall(s) listed at Item I.a above. | | | |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| | | ii. The permittee shall collect a second composite sample for use during the 24-hour renewal of each dilution concentration for both tests. The permittee must collect the composite samples so that the maximum holding time for any effluent sample shall not exceed 36 hours. The permittee must have initiated the toxicity test within 36 hours after the collection of the last portion of the first composite sample. Samples shall be chilled to 6 degrees Centigrade during collection, shipping, and/or storage. | | | |
| | | iii. The permittee must collect the composite samples such that the effluent samples are representative of any periodic episode of chlorination, biocide usage or other potentially toxic substance discharged on an intermittent basis. | | | |
| | | iv. If the flow from the outfall(s) being tested ceases during the collection of effluent samples, the requirements for the minimum number of effluent samples, the minimum number of effluent portions and the sample holding time are waived during that sampling period. However, the permittee must collect an effluent composite sample volume during the period of discharge that is sufficient to complete the required toxicity tests with daily renewal of effluent. When possible, the effluent samples used for the toxicity tests shall be collected on separate days. The effluent composite sample collection duration and the static renewal protocol associated with the abbreviated sample collection must be documented in the full report required in Item 3 of this section. | | | |
| Part II.I3 | Reporting | a. The permittee shall prepare a full report of the results of all tests conducted pursuant to this Part in accordance with the Report Preparation Section of EP A-821-R-02-012, for every valid or invalid toxicity test initiated, whether carried to completion or not. The permittee shall retain each full report pursuant to the provisions of PART III.C.3 of this permit. The permittee shall submit full reports upon the specific request of the Agency. For any test which fails, is considered invalid or which is terminated early for any reason, the full report must be submitted for agency review. | Y | Review the field notes and reports. | Reviewed the LANL Discharge Monitoring Reports and Exceedances from January 2018 through April 2021. In addition, the Review Team reviewed the field logbooks from May 5, |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| | | b. A valid test for each species must be reported on the DMR during each reporting period specified in PART I of this permit unless the permittee is performing a TRE, which may increase the frequency of testing and reporting. Only ONE set of biomonitoring data for each species is to be recorded on the DMR for each reporting period. The data submitted should reflect the LOWEST Survival results for each species during the reporting period. All invalid tests, repeat tests (for invalid tests), and retests (for tests previously failed) performed during the reporting period must be attached to the DMR for EPA review. | | | 2017, through February 18, 2021. |
| | | c. The permittee shall report the following results of each valid toxicity test. Submit<br>retest information, if required, clearly marked as such. Only results of valid tests are<br>to be reported. | | | |
| | | d. If retests are required by NMED, enter the following codes:<br>i. For retest number 1, Parameter 22415, enter a "1" if the NOEC for survival is less than the critical dilution; otherwise, enter a "0."<br>ii. For retest number 2, Parameter 22416, enter a "1" if the NOEC for survival is less than the critical dilution; otherwise, enter a "0." | | | |

### C.1.3 PART III: STANDARD CONDITIONS FOR NPDES PERMITS

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| Part III.A | GENERAL CONDITIONS | 1. INTRODUCTION. In accordance with the provisions of 40 CFR Part 122.41, et. seq., this permit incorporates by reference ALL conditions and requirements applicable to NPDES Permits set forth in the Clean Water Act, as amended, (hereinafter known as the "Act") as well as ALL applicable regulations. | Y | Review the existing permit and the 2019 | Reviewed the existing permit and the 2019 renewal application. Permit Re-Application No. |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| | | 2. DUTY TO COMPLY. The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. | | renewal application | NM0028355 was submitted to EPA on March 26, 2019. |
| | | 3. TOXIC POLLUTANTS. a. Notwithstanding Part III.A.5, if any toxic effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) is promulgated under Section 307(a) of the Act for a toxic pollutant which is present in the discharge and that standard or prohibition is more stringent than any limitation on the pollutant in this permit, this permit shall be modified or revoked and reissued to conform to the toxic effluent standard or prohibition. | | | |
| | | 3. TOXIC POLLUTANTS. b. The permittee shall comply with effluent standards or prohibitions established under Section 307(a) of the Act for toxic pollutants within the time provided in the regulations that established those standards or prohibitions, even if the permit has not yet been modified to incorporate the requirement. | | | |
| | | 4. DUTY TO REAPPLY. If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee must apply for and obtain a new permit. The application shall be submitted at least 180 days before the expiration date of this permit. The Director may grant permission to submit an application less than 180 days in advance but no later than the permit expiration date. Continuation of expiring permits shall be governed by regulations promulgated at 40 CFR Part 122.6 and any subsequent amendments. | | | |
| | | 5. PERMIT FLEXIBILITY. This permit may be modified, revoked and reissued, or terminated for cause in accordance with 40 CFR 122.62-64. The filing of a request for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition. | | | |
| | | 6. PROPERTY RIGHTS. This permit does not convey any property rights of any sort, or any exclusive privilege. | | | |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| | | 7. DUTY TO PROVIDE INFORMATION. The permittee shall furnish to the Director, within a reasonable time, any information which the Director may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The permittee shall also furnish to the Director, upon request, copies of records required to be kept by this permit. | | | |
| | | 8. CRIMINAL AND CIVIL LIABILITY. Except as provided in permit conditions on "Bypassing" and "Upsets", nothing in this permit shall be construed to relieve the permittee from civil or criminal penalties for noncompliance. Any false or materially misleading representation or concealment of information required to be reported by the provisions of the permit, the Act, or applicable regulations, which avoids or effectively defeats the regulatory purpose of the Permit may subject the Permittee to criminal enforcement pursuant to 18 U.S.C. Section 1001. | | | |
| | | 9. OIL AND HAZARDOUS SUBSTANCE LIABILITY. Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under Section 311 of the Act. | | | |
| | | 10. STATE LAWS. Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any applicable State law or regulation under authority preserved by Section 510 of the Act. | | | |
| | | 11. SEVERABILITY. The provisions of this permit are severable, and if any provision of this permit or the application of any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby. | | | |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| Part III.B | PROPER OPERATION AND MAINTENANCE | 1. NEED TO HALT OR REDUCE NOT A DEFENSE. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. The permittee is responsible for maintaining adequate safeguards to prevent the discharge of untreated or inadequately treated wastes during electrical power failure either by means of alternate power sources, standby generators or retention of inadequately treated effluent. | Y | Visual inspection of facilities and review of records | During June 22 through June 28, 2021, the Review Team inspected multiple facilities: - Radioactive Liquid Waste Treatment Facility (RLWTF);- Power Plant;- Sanitary Waste Water System (SWWS);- Sanitary Effluent Reclamation Facility (SERF); - The High Explosive Wastewater Treatment Facility (HEWTF); and - Various Cooling Towers around the siteTotal Recoverable Chlorine (TRC) exceedances is the main exceedances at the site. The system critical parts have been identified and procured for the Chlorine Monitoring System.On June 28, 2021, the Review Team Reviewed training logs for Jennifer Griffin, Faith Dotty, Elisabeth Gray, and Antonio Trujillo. |
| | | 2. DUTY TO MITIGATE. The permittee shall take all reasonable steps to minimize or prevent any discharge in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment. | | | |
| | | 3. PROPER OPERATION AND MAINTENANCE. a. The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by permittee as efficiently as possible and in a manner which will minimize upsets and discharges of excessive pollutants and will achieve compliance with the conditions of this permit. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures. This provision requires the operation of backup or auxiliary facilities or similar systems which are installed by a permittee only when the operation is necessary to achieve compliance with the conditions of this permit. | | | |
| | | 3. PROPER OPERATION AND MAINTENANCE. b. The permittee shall provide an adequate operating staff which is duly qualified to carry out operation, maintenance and testing functions required to insure compliance with the conditions of this permit. | | | |
| | | 4. BYPASS OF TREATMENT FACILITIES. a. BYPASS NOT EXCEEDING LIMITATIONS. The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of Parts III.B.4.b. and 4.c. | | | |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| | | 4. BYPASS OF TREATMENT FACILITIES. b. NOTICE. (1) ANTICIPATED BYPASS. If the permittee knows in advance of the need for a bypass, it shall submit prior notice, if possible at least ten days before the date of the bypass. | | | |
| | | 4. BYPASS OF TREATMENT FACILITIES. b. NOTICE. (2) UNANTICIPATED BYPASS. The permittee shall, within 24 hours, submit notice of an unanticipated bypass as required in Part III.D.7. | | | |
| | | 4. BYPASS OF TREATMENT FACILITIES. c. PROHIBITION OF BYPASS. (1) Bypass is prohibited, and the Director may take enforcement action against a permittee for bypass, unless: (a) Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage; (b) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and, (c) The permittee submitted notices as required by Part III.B.4.b. | | | |
| | | 4. BYPASS OF TREATMENT FACILITIES. c. PROHIBITION OF BYPASS. (2) The Director may allow an anticipated bypass after considering its adverse effects, if the Director determines that it will meet the three conditions listed at Part III.B.4.c(1). | | | |
| | | 5. UPSET CONDITIONS. a. EFFECT OF AN UPSET. An upset constitutes an affirmative defense to an action brought for noncompliance with such technology-based permit effluent limitations if the requirements of Part III.B.5.b. are met. No determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is final administrative action subject to judicial review. | | | |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| | | 5. UPSET CONDITIONS. b. CONDITIONS NECESSARY FOR A DEMONSTRATION OF UPSET. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that: (1) An upset occurred and that the permittee can identify the cause(s) of the upset; (2) The permitted facility was at the time being properly operated; (3) The permittee submitted notice of the upset as required by Part III.D.7; and, (4) The permittee complied with any remedial measures required by Part III.B.2. | | | |
| | | 5. UPSET CONDITIONS. c. BURDEN OF PROOF. In any enforcement proceeding, the permittee seeking to establish the occurrence of an upset has the burden of proof. | | | |
| | | 6. REMOVED SUBSTANCES. Unless otherwise authorized, solids, sewage sludges, filter backwash, or other pollutants removed in the course of treatment or wastewater control shall be disposed of in a manner such as to prevent any pollutant from such materials from entering navigable waters. | | | |
| | | 7. Percent Removal (Publicly Owned Treatment Works)<br>For publicly owned treatment works, the 30-day average (or Monthly Average) percent removal for Biochemical Oxygen Demand and Total Suspended Solids shall not be less than 85 percent unless otherwise authorized by the permitting authority in accordance with 40 CFR 133.103. | | | |
| Part III.C | MONITORING AND RECORDS | 1. INSPECTION AND ENTRY. The permittee shall allow the Director, or an authorized representative, upon the presentation of credentials and other documents as may be required by the law to: a. Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit; b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit; c. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices or operations regulated or required under this permit; and d. Sample or monitor at reasonable times, for the purpose of assuring permit compliance or as otherwise authorized by the Act, any substances or parameters at any location. | Y | Review of records and Technical Procedures. | The Review Team reviewed the Sampling Technical Procedures (EPC-CP-TP-1202) and Calibration/Standardization of Instruments Technical Procedures (EPC-CP-TP-1205). On June 22, 2021, the Review Team observed the sampling evolution at Outfall 051. On June 23, 2021, the Review Team |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| | | 2. REPRESENTATIVE SAMPLING. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity. | | | observed the calibration equipment for pH and Chlorine meter. On June 23, 2021, the Review Team observed the sampling evolution at Outfall 001. the Review Team reviewed the field logbooks from May 5, 2017 through February 18, 2021.In addition, the Review Team reviewed the calibration log for the flow meter at Outfall 001. Checked the calculations in the calibration log. |
| | | 3. RETENTION OF RECORDS. The permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least 3 years from the date of the sample, measurement, report, or application. This period may be extended by request of the Director at any time. | | | |
| | | 4. RECORD CONTENTS. Records of monitoring information shall include:<br>a. The date, exact place, and time of sampling or measurements;<br>b. The individual(s) who performed the sampling or measurements;<br>c. The date(s) and time(s) analyses were performed;<br>d. The individual(s) who performed the analyses;<br>e. The analytical techniques or methods used; and<br>f. The results of such analyses. | | | |
| | | 5. MONITORING PROCEDURES. a. Monitoring must be conducted according to test procedures approved under 40 CFR Part 136, unless other test procedures have been specified in this permit or approved by the Regional Administrator. | | | |
| | | 5. MONITORING PROCEDURES. b. The permittee shall calibrate and perform maintenance procedures on all monitoring and analytical instruments at intervals frequent enough to insure accuracy of measurements and shall maintain appropriate records of such activities. | | | |
| | | 5. MONITORING PROCEDURES. c. An adequate analytical quality control program, including the analyses of sufficient standards, spikes, and duplicate samples to insure the accuracy of all required analytical results shall be maintained by the permittee or designated commercial laboratory. | | | |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| | | 6. FLOW MEASUREMENTS. Appropriate flow measurement devices and methods consistent with accepted scientific practices shall be selected and used to ensure the accuracy and reliability of measurements of the volume of monitored discharges. The devices shall be installed, calibrated, and maintained to insure that the accuracy of the measurements is consistent with the accepted capability of that type of device. Devices selected shall be capable of measuring flows with a maximum deviation of less than 10% from true discharge rates throughout the range of expected discharge volumes. | | | |
| Part III.D | REPORTING REQUIREMENTS | 1. PLANNED CHANGES. a. INDUSTRIAL PERMITS. The permittee shall give notice to the Director as soon as possible of any planned physical alterations or additions to the permitted facility. Notice is required only when: (1) The alteration or addition to a permitted facility may meet one of the criteria for determining whether a facility is a new source in 40 CFR Part 122.29(b); or, (2) The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are subject neither to effluent limitations in the permit, nor to notification requirements listed at Part III.D.10.a.<br>1. PLANNED CHANGES. b. MUNICIPAL PERMITS. Any change in the facility discharge (including the introduction of any new source or significant 'discharge or significant changes in the quantity or quality of existing discharges of pollutants) must be reported to the permitting authority. In no case are any new connections, increased flows, or significant changes in influent quality permitted that will cause violation of the effluent limitations specified herein. | Y | Review of Discharge Monitoring Reports and Exceedances Reports and analytical reports | Reviewed the LANL Discharge Monitoring Reports and Exceedances from January 2018 through April 2021. On June 22, 2021, observed the process of the DMR completion for May 2021. All the reports were submitted in timely manner. The overflows and any noncompliance events were properly reported addressed. As a positive practice we noticed that in addition of the oral notification (within 24 hours) an email confirming the call was submitted. |
| | | 2. ANTICIPATED NONCOMPLIANCE. The permittee shall give advance notice to the Director of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements. | | | |
| | | 3. TRANSFERS. This permit is not transferable to any person except after notice to the Director. The Director may require modification or revocation and reissuance of the permit to change the name of the permittee and incorporate such other requirements as may be necessary under the Act. | | | |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| | | 4. DISCHARGE MONITORING REPORTS AND OTHER REPORTS. Discharge Monitoring Report (DMR) results shall be electronically reported to EPA per 40 CFR 127.16. To submit electronically, access the NetDMR website at www.epa.gov/netdmr and contact the R6NetDMR.epa.gov in-box for further instructions. Until you with the "General Instructions" provided on the form. No additional copies are needed if reporting electronically, however when submitting paper form EPA No. 3320-1, the permittee shall submit the original DMR signed and certified as required by Part III.D.ll and all other reports required by Part III.D. to the EPA at the address below. Duplicate copies of paper DMR's and all other reports shall be submitted to the appropriate State agency(ies) at the following address (es):EPACompliance Assurance and Enforcement DivisionWater Enforcement Branch (6EN-W)U.S. Environmental Protection Agency, Region 61445 Ross AvenueDallas, TX 75202-2733New Mexico Program ManagerSurface Water Quality BureauNew Mexico Environment DepartmentP.O. Box 54691190 Saint Francis DriveSanta Fe, NM 87502-5469 | | | |
| | | 5. ADDITIONAL MONITORING BY THE PERMITTEE. If the permittee monitors any pollutant more frequently than required by this permit, using test procedures approved under 40 CFR Part 136 or as specified in this permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the Discharge Monitoring Report (DMR). Such increased monitoring frequency shall also be indicated on the DMR. | | | |
| | | 6. AVERAGING OF MEASUREMENTS. Calculations for all limitations which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified by the Director in the permit. | | | |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| | | 7. TWENTY-FOUR HOUR REPORTING. a. The permittee shall report any noncompliance which may endanger health or the environment. Any information shall be provided orally within 24 hours from the time the permittee becomes aware of the circumstances. A written submission shall be provided within 5 days of the time the permittee becomes aware of the circumstances. The report shall contain the following information: (1) A description of the noncompliance and its cause; (2) The period of noncompliance including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and, (3) Steps being taken to reduce, eliminate, and prevent recurrence of the noncomplying discharge.<br>b. The following shall be included as information which must be reported within 24 hours: (1) Any unanticipated bypass which exceeds any effluent limitation in the permit; (2) Any upset which exceeds any effluent limitation in the permit; and, (3) Violation of a maximum daily discharge limitation for any of the pollutants listed by the Director in Part II (industrial permits only) of the permit to be reported within 24 hours.<br>c. The Director may waive the written report on a case-by-case basis if the oral report has been received within 24 hours. | | | |
| | | 8. OTHER NONCOMPLIANCE. The permittee shall report all instances of noncompliance not reported under Parts III.D.4 and D.7 and Part I.B (for **industrial** permits only) at the time monitoring reports are submitted. The reports shall contain the information listed at Part III.D.7. | | | |
| | | 9. OTHER INFORMATION. Where the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the Director, it shall promptly submit such facts or information. | | | |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| | | 10. CHANGES IN DISCHARGES OF TOXIC SUBSTANCES. All existing manufacturing, commercial, mining, and silvacultural permittees shall notify the Director as soon as it knows or has reason to believe:a. That any activity has occurred or will occur which would result in the discharge, on a routine or frequent basis, of any toxic pollutant listed at 40 CFR Part 122, Appendix D, Tables II and III (excluding Total Phenols) which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":(1) One hundred micrograms per liter (100 µg/L);(2) Two hundred micrograms per liter (200 µg/L) for acrolein and acrylonitrile; five hundred micrograms per liter (500 µg/L) for 2, 4-dinitro-phenol and for 2-methyl-4, 6-dinitrophenol; and one milligram per liter (1 mg/L) for antimony;(3) Five (5) times the maximum concentration value reported for that pollutant in the permit application; or(4) The level established by the Director.b. That any activity has occurred or will occur which would result in any discharge, on a nonroutine or infrequent basis, of a toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":(1) Five hundred micrograms per liter (500 µg/L);(2) One milligram per liter (1 mg/L) for antimony; (3) Ten (10) times the maximum concentration value reported for that pollutant in the permit application; or(4) The level established by the Director. | | | |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| | | 11. SIGNATORY REQUIREMENTS. All applications, reports, or information submitted to the Director shall be signed and certified. a. ALL PERMIT APPLICATIONS shall be signed as follows: (3) FOR A MUNICIPALITY, STATE, FEDERAL, OR OTHER PUBLIC AGENCY - by either a principal executive officer or ranking elected official. For purposes of this section, a principal executive officer of a Federal agency includes: (a) The chief executive officer of the agency, or (b) A senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency.<br>b. ALL REPORTS required by the permit and other information requested by the Director shall be signed by a person described above or by a duly authorized representative of that person. A person is a duly authorized representative only if: (1) The authorization is made in writing by a person described above; (2) The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity, such as the position of plant manager, operator of a well or a well field, superintendent, or position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company. A duly authorized representative may thus be either a named individual or an individual occupying a named position; and, (3) The written authorization is submitted to the Director.<br>c. CERTIFICATION. Any person signing a document under this section shall make the following certification: "I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations." | | | |
| | | 12. AVAILABILITY OF REPORTS. Except for applications, effluent data permits, and other data specified in 40 CFR 122.7, any information submitted pursuant to this permit may be claimed as confidential by the | | | |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| | | submitter. If no claim is made at the time of submission, information may be made available to the public without further notice. | | | |
| Part III.E | PENALTIES FOR VIOLATIONS OF PERMIT CONDITIONS | 1. CRIMINAL. a. NEGLIGENT VIOLATIONS. The Act provides that any person who negligently violates permit conditions implementing Section 301, 302, 306, 307, 308, 318, or 405 of the Act is subject to a fine of not less than $2,500 nor more than $25,000 per day of violation, or by imprisonment for not more than 1 year, or both.<br>b. KNOWING VIOLATIONS. The Act provides that any person who knowingly violates permit conditions implementing Sections 301, 302, 306, 307, 308, 318, or 405 of the Act is subject to a fine of not less than $5,000 nor more than $50,000 per day of violation, or by imprisonment for not more than 3 years, or both.<br>c. KNOWING ENDANGERMENT. The Act provides that any person who knowingly violates permit conditions implementing Sections 301, 302, 303, 306, 307, 308, 318, or 405 of the Act and who knows at that time that he is placing another person in imminent danger of death or serious bodily injury is subject to a fine of not more than $250,000, or by imprisonment for not more than 15 years, or both.<br>d. FALSE STATEMENTS. The Act provides that any person who knowingly makes any false material statement, representation, or certification in any application, record, report, plan, or other document filed or required to be maintained under the Act or who knowingly falsifies, tampers with, or renders inaccurate, any monitoring device or method required to be maintained under the Act, shall upon conviction, be punished by a fine of not more than $10,000, or by imprisonment for not more than 2 years, or by both. If a conviction of a person is for a violation committed after a first conviction of such person under this paragraph, punishment shall be by a fine of not more than $20,000 per day of violation, or by imprisonment of not more than 4 years, or by both. (See Section 309.c.4 of the Clean Water Act). | Y | NA | NA |
| | | 2. CIVIL PENALTIES. The Act provides that any person who violates a permit condition implementing Sections 301, 302, 306, 307, 308, 318, or 405 of the Act is subject to a civil penalty not to exceed $27,500 per day for each violation. | | | |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| | | 3. ADMINISTRATIVE PENALTIES. The Act provides that any person who violates a permit condition implementing Sections 301, 302, 306, 307, 308, 318, or 405 of the Act is subject to an administrative penalty, as follows: a. CLASS I PENALTY. Not to exceed $11,000 per violation nor shall the maximum amount exceed $27,500. b. CLASS II PENALTY. Not to exceed $11,000 per day for each day during which the violation continues nor shall the maximum amount exceed $137,500. | | | |

### C.1.4 PART IV MAJOR SEWAGE SLUDGE REQUIREMENTS, ELEMENT 1 LAND APPLICATION

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| ELEMENT 1 - LAND APPLICATION | | | | | |
| SECTION I A | General Requirements | 1. The permittee shall handle and dispose of sewage sludge in accordance with Section 405 of the Clean Water Act and all other applicable Federal regulations to protect public health and the environment from any reasonably anticipated adverse effects due to any toxic pollutants which may be present in the sludge. | Y | Review the existing permit and the 2019 renewal application | Reviewed the existing permit and the 2019 renewal application. Permit Re-Application No. NM0028355 was submitted to EPA on March 26, 2019. |
| | | 2. If requirements for sludge management practices or pollutant criteria become more stringent than the sludge pollutant limits or acceptable management practices in this permit, or control a pollutant not listed in this permit, this permit may be modified or revoked and reissued to conform to the requirements promulgated at Section 405(d)(2) of the Clean Water Act. If new limits for Molybdenum are promulgated prior to permit expiration, then those limits shall become directly enforceable. | | | |
| | | 3. In all cases, if the person (permit holder) who prepares the sewage sludge supplies the sewage sludge to another person for land application use or to the owner or lease holder of the land, the permit holder shall provide necessary information to the parties who receive the sludge to assure compliance with these regulations. | | | |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| | | 4. The permittee shall give prior notice to EPA (Chief, Permitting & Water Quality Branch, Water Division, Mail Code 6WD-P, EPA Region 6, 1201 Elm Street, Suite 500, Dallas, Texas 75270) of any planned changes in the sewage sludge disposal practice, in accordance with 40 CFR Part 122.41(l)(1)(iii). These changes may justify the application of permit conditions that are different from or absent in the existing permit. Change in the sludge use or disposal practice may because for modification of the permit in accordance with 40 CFR Part 122.62(a)(1). | | | |
| SECTION I B | Testing Requirements | 1. Sewage sludge shall not be applied to the land if the concentration of the pollutants exceeds the pollutant concentration criteria in Table 1 (see table in permit). The frequency of testing for pollutants in Table 1 is found in Element 1, Section I.C. | Y | Review analytical reports | Reviewed analytical reports and chains-of-custody from 2018 and 2019. |
| | | 2. Pathogen Control; All sewage sludge that is applied to agricultural land, forest, a public contact site, or a reclamation site shall be treated by either the Class A or Class B pathogen requirements. Sewage sludge that is applied to a lawn or home garden shall be treated by the Class A pathogen requirements. Sewage sludge that is sold or given away in a bag shall be treated by Class A pathogen requirements.<br>a. Six alternatives are available to demonstrate compliance with Class A sewage sludge. All 6 options require either the density of fecal coliform in the sewage sludge be less than 1000 Most Probable Number (MPN) per gram of total solids (dry weight basis), or the density of Salmonella sp. bacteria in the sewage sludge be less than three MPN per four grams of total solids (dry weight basis) at the time the sewage sludge is used or disposed; at the time the sewage sludge is prepared for sale or given away in a bag or other container for application to the land. Below are the additional requirements necessary to meet the definition of a Class A sludge (refer to the Alternative 1 through 6 from the permit).<br>b. Three alternatives are available to demonstrate compliance with Class B sewage sludge (refer to the Alternative 1 through 3 from the permit). Alternatives 2 and 3 are not authorized to demonstrate compliance with Class B sewage sludge in Texas permits | | | |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| | | 3. Vector Attraction Reduction Requirements. All bulk sewage sludge that is applied to agricultural land, forest, a public contact site, or a reclamation site shall be treated by one of the following alternatives 1 through 10 for Vector Attraction Reduction. If bulk sewage sludge is applied to a home garden, or bagged sewage sludge is applied to the land, only alternative 1 through alternative 8 shall be used (refer to the Alternative 1 through 10 from the permit). | | | |
| SECTION I C | Monitoring Requirements | All other pollutants shall be monitored at the frequency shown below:<br>0 < Sludge < 290 - Once/Year<br>290 < Sludge< 1,500 - Once/Quarter<br>1,500 <Sludge< 15,000 - Once/Two Months<br>15,000 < Sludge - Once/Month<br>Either the amount of bulk sewage sludge applied to the land or the amount of sewage sludge received by a person who prepares sewage sludge that is sold or given away in a bag or other container for application to the land (dry weight basis.<br>Representative samples of sewage sludge shall be collected and analyzed in accordance with the methods referenced in 40 CFR 503.8(b). | Y | Review monitoring reports | Reviewed analytical tables from 2013 and 2018. |
| SECTION II | Requirements Specific to Bulk Sewage Sludge For Application To The Land Meeting Class A Or B Pathogen Reduction And The | For those permittees meeting Class A or B pathogen reduction requirements and that meet the cumulative loading rates in Table 2 below (see permit for table), or the Class B pathogen reduction requirements and contain concentrations of pollutants below those listed in Table 3 found in Element I, Section III, the following conditions apply: | Y | Review monitoring reports, and visual Inspection | Compost operations began in late 2014. The last sample for MSWLF was submitted before the current permit term started in 2013. Personnel have indicated that SWWS sludge has not been shipped offsite for disposal since composting was |
| | | 1. Pollutant Limits (see table in permit) | | | |
| | | 2. Pathogen Control. All bulk sewage sludge that is applied to agricultural land, forest, a public contact site, a reclamation site, or lawn or home garden shall be treated by either Class A or Class B pathogen reduction requirements as defined above in Element 1, Section I.B.3. | | | |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| | Cumulative Loading Rates In Table 2, Or Class B Pathogen Reduction And The Pollutant Concentrations In Table 3 | 3. Management Practicesa. Bulk sewage sludge shall not be applied to agricultural land, forest, a public contact site, or a reclamation site that is flooded, frozen, or snow-covered so that the bulk sewage sludge enters a wetland or other waters of the U.S., as defined in 40 CFR 122.2, except as provided in a permit issued pursuant to section 404 of the CWA.b. Bulk sewage sludge shall not be applied within 10 meters of a water of the U.S.c. Bulk sewage sludge shall be applied at or below the agronomic rate in accordance with recommendations (refer to the permit)d. An information sheet shall be provided to the person who receives bulk sewage sludge sold or given away. The information sheet shall contain the following information:i. The name and address of the person who prepared the sewage sludge that is sold or given away in a bag or other container for application to the land.ii. A statement that application of the sewage sludge to the land is prohibited except in accordance with the instructions on the label or information sheet.iii. The annual whole sludge application rate for the sewage sludge that does not cause any of the cumulative pollutant loading rates in Table 2 above to be exceeded, unless the pollutant concentrations in Table 3 found in Element I, Section III below are met. | | | approved.<br>The only land application of compost has been around the SWWS facility prior to 2019. Land application did not occur in 2019 or 2020.<br>The information to determine Pathogen Reduction and Vector Attraction for 2018 and 2019 was reviewed. |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| | | 4. Notification requirements<br>a. If bulk sewage sludge is applied to land in a State other than the State in which the sludge is prepared, written notice shall be provided prior to the initial land application to the permitting authority for the State in which the bulk sewage sludge is proposed to be applied. The notice shall include:<br>i. The location, by either street address or latitude and longitude, of each land application site.<br>ii. The approximate time period bulk sewage sludge will be applied to the site.<br>iii. The name, address, telephone number, and National Pollutant Discharge Elimination System permit number (if appropriate) for the person who prepares the bulk sewage sludge.<br>iv. The name, address, telephone number, and National Pollutant Discharge Elimination System permit number (if appropriate) for the person who will apply the bulk sewage sludge.<br>b. The permittee shall give 60 days prior notice to the Director of any change planned in the sewage sludge practice. Any change shall include any planned physical alterations or additions to the permitted treatment works, changes in the permittee's sludge use or disposal practice, and also alterations, additions, or deletions of disposal sites. These changes may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional disposal sites not reported during the permit application process or absent in the existing permit. Change in the sludge use or disposal practice may because for modification of the permit in accordance with 40 CFR 122.62(a)(1).<br>c. The permittee shall provide the location of all existing sludge disposal/use sites to the State Historical Commission within 90 days of the effective date of this permit. In addition, the permittee shall provide the location of any new disposal/use site to the State Historical Commission prior to use of the site.<br>d. The permittee shall within 30 days after notification by the State Historical Commission that a specific sludge disposal/use area will adversely affect a National Historic Site, cease use of such area. | | | |
| | | 5. Recordkeeping Requirements - The sludge documents will be retained on site at the same location as other NPDES records.The person who prepares bulk sewage sludge or a sewage sludge material shall develop the following information and shall retain the information for five years. If the permittee | | | |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| | | supplies the sludge to another person who land applies the sludge, the permittee shall notify the land applier of the requirements for recordkeeping found in 40 CFR 503.17 for persons who land apply.a. The concentration (mg/Kg) in the sludge of each pollutant listed in Table 3 found in Element I, Section III and the applicable pollutant concentration criteria (mg/Kg), or the applicable cumulative pollutant loading rate and the applicable cumulative pollutant loading rate limit (kg/ha) listed in Table 2 above. b. A description of how the pathogen reduction requirements are met (including site restrictions for Class B sludge, if applicable).c. A description of how the vector attraction reduction requirements are met.d. A description of how the management practices listed above in Section II.3 are being met.e. The recommended agronomic loading rate from the references listed in Section II.3.c. above, as well as the actual agronomic loading rate shall be retained.f. A description of how the site restrictions in 40 CFR Part 503.32(b)(5) are met for each site on which Class B bulk sewage sludge is applied.g. The following certification statement:"I certify, under penalty of law, that the management practices in §503.14 have been met for each site on which bulk sewage sludge is applied. This determination has been made under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate the information used to determine that the management practices have been met. I am aware that there are significant penalties for false certification including fine and imprisonment."h. A certification statement that all applicable requirements (specifically listed) have been met, and that the permittee understands that there are significant penalties for false certification including fine and imprisonment. See 40 CFR 503.17(a)(4)(i)(B) or 40 CFR Part 503.17(a)(5)(i)(B) as applicable to the permittees sludge treatment activities.i. The permittee shall maintain information that describes future geographical areas where sludge may be land applied.j. The permittee shall maintain information identifying site selection criteria regarding land application sites not identified at the time of permit application submission.k. The permittee shall maintain information regarding how future land application sites will be managed. | | | |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| | | 5. Recordkeeping Requirements. The person who prepares bulk sewage sludge or a sewage sludge material shall develop the following information and shall retain the information indefinitely. If the permittee supplies the sludge to another person who land applies the sludge, the permittee shall notify the land applier of the requirements for recordkeeping found i n 40 CFR 503 .17 for persons who land apply.<br>a. The location, by either street address or latitude and longitude, of each site on which sludge is applied.<br>b. The number of hectares in each site on which bulk sludge is applied.<br>c. The date and time sludge is applied to each site.<br>d. The cumulative amount of each pollutant in kilograms/hectare listed in Table 2 applied to each site.<br>e. The total amount of sludge applied to each site in metric tons.<br>f. The following certification statement:<br>"I certify, under penalty of law, that the requirements to obtain information in §503.12(e)(2) have been met for each site on which bulk sewage sludge is applied. This determination has been made under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate the information used to determine that the requirements to obtain information have been met. I am aware that there are significant penalties for false certification including fine and imprisonment."<br>g. A description of how the requirements to obtain information in §503.12(e)(2) are met. | Y | Review of the records | Reviewed the Daily Composting/Curing Log Sheets, Curing Phase, and Compost Loading Logs. |
| | | 6. Reporting Requirements - None | NA | | |
| SECTION III | Requirements Specific to Bulk or Bagged Sewage Sludge Meeting Pollutant Concentrations In Table 3 And | 1. Pollutant limits - The concentration of the pollutants in the municipal sewage sludge is at or below the values listed (see table in permit). | Y | Review monitoring reports, visual Inspection, and review of the records | Compost operations began in late 2014. The last sample for MSWLF was submitted before the current permit term started in 2013. Personnel have indicated that SWWS sludge has not been shipped offsite for disposal since |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| | Class A Pathogen Reduction Requirements | | | | composting was approved.<br>The only land application of compost has been around the SWWS facility prior to 2019. Land application did not occur in 2019 or 2020.<br>The information to determine Pathogen Reduction and Vector Attraction for 2018 and 2019 was reviewed. |
| | | 2. Pathogen Control. All bulk sewage sludge that is applied to agricultural land, forest, a public contact site, a reclamation site, or lawn or home garden shall be treated by the Class A pathogen reduction requirements as defined above in Element I, Section I.B.3. All bagged sewage sludge must be treated by Class A pathogen reduction requirements. | | | |
| | | 3. Management Practices - None. | NA | | |
| | | 4. Notification Requirements - None. | NA | | |
| | | 5. Recordkeeping Requirements - The permittee shall develop the following information and shall retain the information for five years. The sludge documents will be retained on site at the same location as other NPDES records.a. The concentration (mg/Kg) in the sludge of each pollutant listed in Table 3 and the applicable pollutant concentration criteria listed in Table 3.b. A certification statement that all applicable requirements (specifically listed) have been met, and that the permittee understands that there are significant penalties for false certification including fine and imprisonment. See 503.17(a)(1)(ii) or 503.17(a)(3)(i)(B), whichever applies to the permittees sludge treatment activities.c. A description of how the Class A pathogen reduction requirements are met.d. A description of how the vector attraction reduction requirements are met. | Y | Review of the records | Reviewed the Daily Composting/Curing Log Sheets, Curing Phase, and Compost Loading Logs. |
| | | 6. Reporting Requirements - None | NA | | |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| SECTION IV | Requirements Specific to Sludge Sold Or Given Away In A Bag Or Other Container For Application To The Land That Does Not Meet The Minimum Pollutant Concentrations | 1. Pollutant Limits (see Table 4 in permit) | Y | Review monitoring reports, visual Inspection, and review of the records | Compost operations began in late 2014. The last sample for MSWLF was submitted before the current permit term started in 2013. Personnel have indicated that SWWS sludge has not been shipped offsite for disposal since composting was approved. The only land application of compost has been around the SWWS facility prior to 2019. Land application did not occur in 2019 or 2020. The information to determine Pathogen Reduction and Vector Attraction for 2018 and 2019 was reviewed. |
| | | 2. Pathogen Control. All sewage sludge that is sold or given a way in a bag or other container for application to the land shall be treated by the Class A pathogen requirements as defined above in Section I.B.3.a. above. | | | |
| | | 3. Management Practices<br>Either a label shall be affixed to the bag or other container in which sewage sludge that is sold or given a way for application to the land, or an information sheet shall be provided to the person who receives sewage sludge sold or given away in another container for application to the land. The label or information sheet shall contain the following information:<br>a. The name and address of the person who prepared the sewage sludge that is sold or given away in a bag or other container for application to the land.<br>b. A statement that application of the sewage sludge to the land is prohibited except in accordance with the instructions on the label or information sheet.<br>c. The annual whole sludge application rate for the sewage sludge that will not cause any of the annual pollutant loading rates in Table 4 above to be exceeded. | | | |
| | | 4. Notification Requirements - None. | NA | | |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| | | 5. Recordkeeping Requirements - The sludge documents will be retained on site at the same location as other NPDES records. The person who prepares sewage sludge or a sewage sludge material shall develop the following information and shall retain the information for five years.<br>a. The concentration in the sludge of each pollutant listed above in found in Element I, Section I, Table 1.<br>b. The following certification statement found in §503.17(a)(6)(iii).<br>"I certify, under penalty of law, that the information that will be used to determine compliance with the management practices in §503.14(e), the Class A pathogen requirement in §503.32(a), and the vector attraction reduction requirement in (insert vector attraction reduction option) have been met. This determination has been made under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate the information used to determine that the management practices, pathogen requirements, and vector attraction reduction requirements have been met. I am aware that there are significant penalties for false certification including the possibility of fine and imprisonment".<br>c. A description of how the Class A pathogen reduction requirements are met.<br>d. A description of how the vector attraction reduction requirements are met.<br>e. The annual whole sludge application rate for the sewage sludge that does not cause the annual pollutant loading rates in Table 4 to be exceeded. See Appendix A to Part 503 - Procedure to Determine the Annual Whole Sludge Application Rate for Sewage Sludge. | Y | Review of the records | Reviewed the Daily Composting/Curing Log Sheets, Curing Phase, and Compost Loading Logs. |
| | | 6. Reporting Requirements - None | NA | | |

### C.1.5 PART IV MAJOR SEWAGE SLUDGE REQUIREMENTS, ELEMENT 2 SURFACE DISPOSAL

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| ELEMENT 2 - SURFACE DISPOSAL | | | | | |
| SECTION I A | General Requirements | 1. The permittee shall handle and dispose of sewage sludge in accordance with Section 405 of the Clean Water Act and all other applicable Federal regulations to protect public health and the environment from any reasonably anticipated adverse effects due to any toxic pollutants which may be present. | NA | | According with the LANL personnel the surface disposal is not applicable to the site |
| | | 2. If requirements for sludge management practices or pollutant criteria become more stringent than the sludge pollutant limits or acceptable management practices in this permit, or control a pollutant not listed in this permit, this permit may be modified or revoked and reissued to conform to the requirements promulgated at Section 405(d)( 2) of the Clean Water Act. | | | |
| | | 3.In all cases, if the person (permit holder) who prepares the sewage sludge or supplies the sewage sludge to another person (owner or operator of a sewage sludge unit) for disposal in a surface disposal site, the permit holder shall provide all necessary information to the parties who receive the sludge to assure compliance with these regulations. | | | |
| | | 4. The permittee shall give prior notice to EPA (Chief, Permitting & Water Quality Branch, Water Division, Mail Code 6WD-P, EPA Region 6, 1201 Elm Street, Suite 500, Dallas, Texas 75270) of any planned changes in the sewage sludge disposal practice, in accordance with 40 CFR Part 122.41(l)(1)(iii). These changes may justify the application of permit conditions that are different from or absent in the existing permit. Change in the sludge use or disposal practice may because for modification of the permit in accordance with 40 CFR Part 122.62(a)(1). | | | |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| | | 5. The permittee or owner/operator shall submit a written closure and post closure plan to the permitting authority 180 days prior to the closure date. The plan shall include the following information:<br>a. A discussion of how the leachate collection system will be operated and maintained for three years after the surface disposal site closes if it has a liner and leachate collection system.<br>b. A description of the system used to monitor continuously for methane gas in the air in any structures within the surface disposal site. The methane gas concentration shall not exceed 25% of the lower explosive limit for methane gas for three years after the sewage sludge unit closes. A description of the system used to monitor for methane gas in the air at the property line of the site shall be included. The methane gas concentration at the surface disposal site property line shall not exceed the lower explosive limit for methane gas for three years after the sewage sludge unit closes.<br>c. A discussion of how public access to the surface disposal site will be restricted for three years after it closes. | | | |
| SECTION I B | Management Practices | 1. An active sewage sludge unit located within 60 meters of a fault that has displacement in Holocene time shall close by March 22, 1994. | NA | | According with the LANL personnel the surface disposal is not applicable to the site |
| | | 2. An active sewage sludge unit located in an unstable area shall close by March 22, 1994. | | | |
| | | 3. An active sewage sludge unit located in a wetland shall close by March 22, 1994. | | | |
| | | 4. Surface disposal shall not restrict the flow of the base 100-year flood. | | | |
| | | 5. The run-off collection system for an active sewage sludge unit shall have the capacity to handle run-off from a 25-year, 24-hour storm event. | | | |
| | | 6. A food crop, feed crop, or a fiber crop shall not be grown on a surface disposal site. | | | |
| | | 7. Animals shall not be grazed on a surface disposal site. | | | |
| | | 8. Public access shall be restricted on the active surface disposal site and for three years after the site closes. | | | |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| | | 9. Placement of sewage sludge shall not contaminate an aquifer. This shall be demonstrated through one of the following:<br>a. Results of a ground-water monitoring program developed by a qualified ground-water scientist.<br>b. A certification by a qualified ground-water scientist may be used to demonstrate that sewage sludge placed on an active sewage sludge unit does not contaminate an aquifer. | | | |
| | | 10. When a cover is placed on an active surface disposal site, the concentration of methane gas in air in any structure within the surface disposal site shall not exceed 25% of the lower explosive limit for methane gas during the period that the sewage sludge unit is active. The concentration of methane gas in air at the property line of the surface disposal site shall not exceed the lower explosive limit for methane gas during the period that the sewage sludge unit is active. Monitoring shall be continuous. | | | |
| SECTION I C | Testing Requirements | 1. Sewage sludge shall be tested at the frequency show below in Element 2, Section I.D. for PCBs. Any sludge exceeding a concentration of 50 mg/Kg shall not be surface disposed. | NA | | According with the LANL personnel the surface |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| | | 2. Pathogen Control; All sewage sludge that is disposed of in a surface disposal site shall be treated by either the Class A or Class B pathogen requirements unless sewage sludge is placed on an active surface disposal site, and is covered with soil or other material at the end of each operating day. When reporting on the DMR, list pathogen reduction level attained as A, B, or C (daily cover). When reporting how compliance was met, list Alternative 1, 2, 3, 4, 5 or 6 for Class A, or Alternative Number 1, 2, 3, or 4 for Class B, on DMR.<br>a. Six alternatives are available to demonstrate compliance with Class A sewage sludge. All 6 options require either the density of fecal coliform in the sewage sludge be less than 1000 Most Probable Number (MPN) per gram of total solids (dry weight basis), or the density of Salmonella sp. bacteria in the sewage sludge be less than three MPN per four grams of total solids (dry weight basis) at the time the sewage sludge is used or disposed; at the time the sewage sludge is prepared for sale or given away in a bag or other container for application to the land. Below are the additional requirements necessary to meet the definition of a Class A sludge (refer to the Alternative 1 through 6 from the permit).<br>b. Four alternatives are available to demonstrate compliance with Class B sewage sludge (refer to the Alternative 1 through 3 from the permit). | | | disposal is not applicable to the site |
| | | 3. Vector Attraction Reduction Requirements. All sewage sludge that is disposed of in a surface disposal site shall be treated by one of the following alternatives 1 through 11 for Vector Attraction Reduction(refer to the Alternative 1 through 11 from the permit). | | | |
| | | 4. Methane Gas Control Within a Structure On Site. When cover is placed on an active surface disposal site, the methane gas concentration in the air in any structure shall not exceed 25% of the lower explosive limit (LEL) for methane gas during the period that the disposal site is active. | | | |
| | | 5. Methane Gas Control at Property Line. The concentration of methane gas in air at the property line of the surface disposal site shall not exceed the LEL for methane gas during the period that the disposal site is active. | | | |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| SECTION I D | Monitoring Requirements | Methane Gas in covered structures on site - Continuous<br>Methane Gas at property line - Continuous<br>All other pollutants shall be monitored at the frequency shown in the permit. Representative samples of sewage sludge shall be collected and analyzed in accordance with the methods referenced in 40 CFR 503.8(b). | NA | | According with the LANL personnel the surface disposal is not applicable to the site |
| SECTION II | Requirements Specific to Surface Disposal Sites Without A Liner and Leachate Collection System | 1. Pollutant Limits - Sewage sludge shall not be applied to a surface disposal site if the concentrations of the listed pollutants exceed the corresponding values based on the surface disposal site boundary to the property line distance (see permit for table). | NA | | According with the LANL personnel the surface disposal is not applicable to the site |
| | | 2. Management practices - Listed in Section I.B. above. | | | |
| | | 3. Notification requirements<br>a. The permittee shall assure that the owner of the surface disposal site provide written notification to the subsequent site owners that sewage sludge was placed on the land.<br>b. The permittee shall provide the location of all existing sludge disposal/use sites to the State Historical Commission within 90 days of the effective date of this permit. In addition, the permittee shall provide the location of any new disposal/use site to the State Historical Commission prior to use of the site.<br>c. The permittee shall within 30 days after notification by the State Historical Commission that a specific sludge disposal/use area will adversely affect a National Historic Site, cease use of such area. | | | |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| | | 4. Recordkeeping requirements - The permittee shall develop the following information and shall retain the information for five years. The sludge documents will be retained on site at the same location as other NPDES records.<br>a. The distance of the surface disposal site from the property line and the concentration (mg/Kg) in the sludge of each pollutant listed above in Table 5, as well as the applicable pollutant concentration criteria listed in Table 5.<br>b. A certification statement that all applicable requirements (specifically listed) have been met, and that the permittee understands that there are significant penalties for false certification including fine and imprisonment. See 503.27(a)(1)(ii) or 503.27(a)(2)(ii) as applicable to the permittees sludge disposal activities.<br>c. A description of how either the Class A or Class B pathogen reduction requirements are met, or whether sewage sludge placed on a surface disposal site is covered with soil or other material at the end of each operating day.<br>d. A description of how the vector attraction reduction requirements are met.<br>e. Results of a groundwater monitoring program developed by a qualified ground-water scientist, or a certification by a qualified groundwater scientist may be used to demonstrate that sewage sludge placed on an active sewage sludge unit does not contaminate an aquifer. A qualified ground water scientist is an individual with a baccalaureate or post graduate degree in the natural sciences or engineering who has sufficient training and experience in groundwater hydrology and related fields, as may be demonstrated by State registration, professional certification or completion of accredited university programs, to make sound professional judgments regarding groundwater monitoring, pollutant fate and transport, and corrective action. | | | |
| | | 5. Reporting Requirements - None | | | |
| SECTION III | Requirements Specific to Surface Disposal Sites with A Liner and Leachate | 1. Pollutant limits - None. | NA | | According with the LANL personnel the surface disposal is not applicable to the site |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| | Collection System | | | | |
| | | 2. Management Practices - Listed in Section I.B. above. | | | |
| | | 3. Notification requirements<br>a. The permittee shall assure that the owner of the surface disposal site provide written notification to the subsequent owner of the site that sewage sludge was placed on the land.<br>b. The permittee shall provide the location of all existing sludge disposal/use sites to the State Historical Commission within 90 days of the effective date of this permit. In addition, the permittee shall provide the location of any new disposal/use site to the State Historical Commission prior to use of the site. The permittee shall within 30 days after notification by the State Historical Commission that a specific sludge disposal/use area will adversely affect a National Historic Site, cease use of such area. | | | |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| | | 4. Recordkeeping requirements - The permittee shall develop the following information and shall retain the information for five years. The sludge documents will be retained on site at the same location as other NPDES records.<br>a. The following certification statement found in 503.27(a)(1)(ii):<br>"I certify, under penalty of law, that the pathogen requirements (define option used) and the vector attraction reduction requirements in (define option used) have been met. This determination has been made under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate the information used to determine the (pathogen requirements and vector attraction reduction requirements, if appropriate) have been met. I am aware that there are significant penalties for false certification including the possibility of fine and imprisonment."<br>b. A description of how either the Class A or Class B pathogen reduction requirements are met or whether sewage sludge placed on a surface disposal site is covered with soil or other material at the end of each operating day.<br>c. A description of how the vector attraction reduction requirements are met.<br>d. Results of a ground-water monitoring program developed by a qualified ground-water scientist, or a certification by a qualified ground-water scientist may be used to demonstrate that sewage sludge placed on an active sewage sludge unit does not contaminate an aquifer. | | | |
| | | 5. Reporting Requirements - None | | | |

### C.1.6 PART IV MAJOR SEWAGE SLUDGE REQUIREMENTS, ELEMENT 3 MUNICIPAL SOLID WASTE LANDFILL DISPOSAL

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| ELEMENT 3 - MUNICIPAL SOLID WASTE LANDFILL DISPOSAL | | | | | |
| SECTION I | Requirements Applying to All Sewage Sludge Disposed in A Municipal Solid Waste Landfill | 1. The permittee shall handle and dispose of sewage sludge in accordance with Section 405 of the Clean Water Act and all other applicable Federal regulations to protect public health and the environment from any reasonably anticipated adverse effects due to any toxic pollutants that may be present. The permittee shall ensure that the sewage sludge meets the requirements in 40 CFR 258 concerning the quality of the sludge disposed in a municipal solid waste landfill unit. | Y | Review the existing permit and the 2019 renewal application | Permit Re-Application No. NM0028355 was submitted to EPA on March 26, 2019. |
| | | 2. If requirements for sludge management practices or pollutant criteria become more stringent than the sludge pollutant limits or acceptable management practices in this permit, or control a pollutant not listed in this permit, this permit may be modified or revoked and reissued to conform to the requirements promulgated at Section 405(d)(2) of the Clean Water Act. | | | |
| | | 3. If the permittee generates sewage sludge and supplies that sewage sludge to the owner or operator of a MSWLF for disposal, the permittee shall provide to the owner or operator of the MSWLF appropriate information needed to be in compliance with the provisions of this permit. | | | |
| | | 4. The permittee shall give prior notice to EPA (Chief, Permitting & Water Quality Branch, Water Division, Mail Code 6WD-P, EPA Region 6, 1201 Elm Street, Suite 500, Dallas, Texas 75270) of any planned changes in the sewage sludge disposal practice, in accordance with 40 CFR Part 122.41(l)(1)(iii). These changes may justify the application of permit conditions that are different from or absent in the existing permit. Change in the sludge use or disposal practice may because for modification of the permit in accordance with 40 CFR Part 122.62(a)(1). | | | |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance | Evidence of Compliance |
|---|---|---|---|---|---|
| | | 5. The permittee shall provide the location of all existing sludge disposal/use sites to the State Historical Commission within 90 days of the effective date of this permit. In addition, the permittee shall provide the location of any new disposal/use site to the State Historical Commission prior to use of the site. The permittee shall within 30 days after notification by the State Historical Commission that a specific sludge disposal/use area will adversely affect a National Historic Site, cease use of such area. | | | |
| | | 6. Recordkeeping requirements - The permittee shall develop the following information and shall retain the information for five years. The sludge documents will be retained on site at the same location as other NPDES records.<br>a. The description and results of the tests performed, required by the owner/operator of the MSWLF to demonstrate compliance with the 40 CFR 258 regulations.<br>b. A certification that sewage sludge meets the requirements in 40 CFR 258 concerning the quality of the sludge disposed in a municipal solid waste landfill unit. | Y | Review of submittals and analytical reports | Reviewed analytical reports and chains-of-custody from 2018 and 2019.<br>Reviewed the Daily Composting/Curing Log Sheets, Curing Phase, and Compost Loading Logs. |
| | | 9. Reporting requirements - None | NA | | |

## C.2 Observation Forms

The Review Team made the following observations during the review of LANL's Industrial and Sanitary Point Source Outfall permit.

# SEP – Second Triennial Review Observation Form

*PRE-DECISIONAL*

**Observation No.:** Industrial-001 **Category:** Best Management Practice

**Observation Title:** TRC Exceedances

**Observation Type:** Efficiency / Improvement Recommendation

**Date:** 6/21/2021

**Technical Area:** TA-55 **Location:** Plutonium Facility Cooling Towers

**Operational Entity:** Triad

**Reference:** Part III.B

**Requirement:**

PROPER OPERATION AND MAINTENANCE. a. The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by permittee as efficiently as possible and in a manner which will minimize upsets and discharges of excessive pollutants and will achieve compliance with the conditions of this permit. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures. This provision requires the operation of backup or auxiliary facilities or similar systems which are installed by a permittee only when the operation is necessary to achieve compliance with the conditions of this permit.

**Notes:**

Total residual chlorine (TRC) is the only violation recorded from this outfall (03A181). This was caused by Cooling Towers operations unit.

**Recommendation:**

Implement an automated TRC monitoring system at the Cooling Towers to avoid future exceedances and violations at the outfall.

**Response:**

The Cooling Towers and Outfall 03A181 can be and are shut down when an exceedance occurs. The towers remain shut down until the cause is discovered and addressed. Operations at PF4 are not reliant on the operation of the Cooling Towers/outfall such that they must continue to work regardless of the compliance status at the outfalls.

Outfall 03A181 has had two TRC exceedances during this permit term (October 2014 – Present). These exceedances occurred in June 2019 and July 2019. The outfall has had no additional compliance issues for 23 months.

Operations performs a weekly manual test for free chlorine to monitor.

Operations has installed a sorbic acid puck holder (dechlorination chemical tablets) on the overflow line so that a chlorinated discharge cannot accidently occur to the outfall. Please see the attached email from the engineer in charge of the system.

A chlorine monitoring system has not been installed on this system and is not required by the National Pollution Discharge Elimination System (NPDES) permit or any of the Environmental Protection and Compliance Division (EPC) NPDES monitoring procedures.

Installation of a chlorine monitoring system is a best management practice/ recommendation that may reduce the potential for TRC exceedances at the outfall, but it is not required.

**Status:** Closed **Reviewer:** Florin Savin

# SEP – Second Triennial Review Observation Form

*PRE-DECISIONAL*

**Observation No.:** Industrial-002 **Category:** Maintenance

**Observation Title:** Alkalinity Exceedances

**Observation Type:** II - Potential Environmental Regulatory Violation

**Date:** 6/22/2021

**Technical Area:** TA-03 **Location:** Laboratory Data Communications Center (LDCC) Cooling Towers at TA-3

**Operational Entity:** Triad

**Reference:** Part III.B.3.a

**Requirement:**

PROPER OPERATION AND MAINTENANCE. a. The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by permittee as efficiently as possible and in a manner which will minimize upsets and discharges of excessive pollutants and will achieve compliance with the conditions of this permit. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures. This provision requires the operation of backup or auxiliary facilities or similar systems which are installed by a permittee only when the operation is necessary to achieve compliance with the conditions of this permit.

**Notes:**

Alkalinity is the only violation recorded from this outfall (03A199). This was caused by Cooling Towers operations unit (failure of the programmable logic controller [PLC] unit). The towers were run manually.

**Recommendation:**

Identify the system critical parts and procure backups.

**Response:**

Alkalinity is not a permit requirement at any of the NPDES ISPS Outfalls. Outfall 03A199 has had three TRC exceedances during this permit term (October 2014 – Present). These exceedances occurred in April 2018, June 2019, and November 2019. Outfall 03A199 has had no compliance issues for 19 months.

The system critical parts have been identified and procured for the Chlorine Monitoring System. Confirmed by email that the Utilities and Infrastructure organization has acquired two backup controllers for the Chlorine Monitoring Systems.

**Status:** Closed **Reviewer:** Florin Savin

# SEP – Second Triennial Review Observation Form

*PRE-DECISIONAL*

**Observation No.:** Industrial-003 **Category:** Recordkeeping

**Observation Title:** Recordkeeping of the Instruments Calibration

**Observation Type:** I - Operational Deficiency (not following LANL procedure)

**Date:** 6/23/2021

**Technical Area:** TA-59 **Location:** TA-59-1

**Operational Entity:** Triad

**Reference:** NA

**Requirement:**

Best management practice (BMP)

**Notes:**

The Review Team observed the instruments calibration (pH and TRC) at building TA-59-1. All the procedures were followed according with the technical procedures. In addition, the Review Team reviewed the field notes and calibration logs and noticed that the serial numbers of the instruments calibrated were not recorded in the calibration log. The equipment make and model were recorded.

**Recommendation:**

Record the make, model, and serial number of the instruments used in the calibration log.

**Response:**

The serial numbers associated with each pH and TRC meter have been added to the front of the logbook.

**Status:** Closed **Reviewer:** Florin Savin

# SEP – Second Triennial Review Observation Form

*PRE-DECISIONAL*

**Observation No.:** Industrial-004 **Category:** Procedures

**Observation Title:** Sampling Evolution at Outfall 001

**Observation Type:** Positive Practice

**Date:** 6/23/2021

**Technical Area:** TA-3 **Location:** Outfall 001

**Operational Entity:** Triad

**Reference:**

**Requirement:**

Technical Sampling Procedure EPC-CP-TP-1202

**Notes:**

The Review Team observed the sampling evolution at the Outfall 001. All the technical sampling procedures (EPC-CP-TP-1202) were completed as required. The field technician was very organized and completed all the procedures (planning, calibration, preparation, mobilization to field location, sampling collection, and field parameter motoring) safely and in time.

**Recommendation:**

Keep up with the good work

**Response:**

**Status:** Not Applicable for In Compliance & Positive **Reviewer:** Florin Savin

# SEP – Second Triennial Review Observation Form

*PRE-DECISIONAL*

**Observation No.:** Industrial-005 **Category:** Signage

**Observation Title:** Signage post at Radioactive Liquid Waste Treatment Facility

**Observation Type:** Efficiency / Improvement Recommendation

**Date:** 6/24/2021

**Technical Area:** TA-50 **Location:** Radioactive Liquid Waste Treatment Facility

**Operational Entity:** Triad

**Reference:**

**Requirement:**

Operational guidance

**Notes:**

During the Review Team's visit at the Radioactive Liquid Waste Treatment Facility (RLWTF), a sign was observed which was not up to date with the new improved operations.

**Recommendation:**

Remove the signage.

**Response:**

The sign provides a simplified process diagram for the treatment capability in the room. Current operations in Room 60 have deviated from that schematic, but the equipment in the room is fully capable of resuming that operation should it be required. Schematics inside and associated with the RLWTF are managed in accordance with Laboratory Conduct of Operations and are not managed, maintained, specified, or required by the NPDES NM0028355 permit or the NPDES Industrial Point Source Permit (IPSP) Program procedures/documents.

The sign located in Room 60 is historical memorabilia with sentimental value to the facility and is not directly related to environmental compliance, waste management, or the NPDES NM0028355 permit.

**Status:** Closed **Reviewer:** Florin Savin

# SEP – Second Triennial Review Observation Form

*PRE-DECISIONAL*

**Observation No.:** Industrial-006 **Category:** Best Management Practice

**Observation Title:** Continually Improved Operations

**Observation Type:** Positive Practice

**Date:** 6/24/2021

**Technical Area:** TA-50 **Location:** RLWTF

**Operational Entity:** Triad

**Reference:**

**Requirement:**

**Notes:**

The LANL NPDES working group continues to make strides in operational efficiency. The RLWTF facilities that are under construction (low radiation) or funded (high radiation) will increase operational efficiency and safety and reduce maintenance costs. This was achieved through decades of collaborative discussions that are continued with daily contact and monthly meetings.

**Recommendation:**

Continue to apply lessons learned and pilot projects to gain efficiencies, increase safety, and reduce cost.

**Response:**

**Status:** Not Applicable for In Compliance & Positive **Reviewer:** Florin Savin

# SEP – Second Triennial Review Observation Form

*PRE-DECISIONAL*

**Observation No.:** Industrial-007 **Category:** Recordkeeping

**Observation Title:** Logbooks Recordkeeping

**Observation Type:** Efficiency / Improvement Recommendation

**Date:** 6/28/2021

**Technical Area:** **Location:**

**Operational Entity:** Triad

**Reference:** Part III.C

**Requirement:**

3. RETENTION OF RECORDS. The permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least 3 years from the date of the sample, measurement, report, or application. This period may be extended by request of the Director at any time.

**Notes:**

The Review Team completed the records review for the logbooks (May 22, 2017, to February 18, 2021). The logbooks were completed following the requirements. However, the name of the persons who completed the fieldwork cannot be easily identified. There are signatures, but most of them are not readable.

**Recommendation:**

The Review Team suggests that the persons recording the work in the logbooks print their names as the BMP.

**Response:**

The current logbook includes the printed name and signature of the sampler.

The end of the logbook entry is signed and dated. Attachments were provided.

**Status:** Closed **Reviewer:** Florin Savin

# SEP – Second Triennial Review Observation Form

*PRE-DECISIONAL*

**Observation No.:** Industrial-008 **Category:** Reporting

**Observation Title:** Reports Signature Requirements

**Observation Type:** II - Potential Environmental Regulatory Violation

**Date:** 6/28/2021

**Technical Area:** **Location:**

**Operational Entity:** Triad

**Reference:** Part III.D.11.b

**Requirement:**

11. SIGNATORY REQUIREMENTS. All applications, reports, or information submitted to the Director shall be signed and certified. b. ALL REPORTS required by the permit and other information requested by the Director shall be signed by a person described above or by a duly authorized representative of that person. A person is a duly authorized representative only if: (1) The authorization is made in writing by a person described above; (2) The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity, such as the position of plant manager, operator of a well or a well field, superintendent, or position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company. A duly authorized representative may thus be either a named individual or an individual occupying a named position; and, (3) The written authorization is submitted to the Director.

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

**Notes:**

Several reports were submitted without signatures and/or dates.

- EPC-DO-20-107: No signature and date on the letter

- EPC-DO-20-221: No date on the letter

**Recommendation:**

Suggest adding another level of review before reports are submitted.

**Response:**

The final records for EPC-DO-20-107 and EPC-DO-20-221 were submitted to the EPA with a date and signatures. It appears the wrong document was uploaded to the assessment website. The final signed and dated reports were provided to the Review Team.

**Status:** Closed **Reviewer:** Florin Savin

## C.3 Industrial and Sanitary Outfall Point Source Outfall Permit Checklist References

### C.3.1 PERMIT AND PERMIT RE-APPLICATION

EPA (2015). *NPDES Final Permit No. NM0028355 with Modifications*. LAUR-15-22215. March 27, 2015. Dallas, TX.

EPA (2019a). *Completion Letter for NM0028355 42519.* L20190425. April 25, 2019. Dallas, TX.

EPA (2019b). *Administratively Complete Application and Current Permit Extension NM0028355*. L20191022. October 22, 2019. Dallas, TX.

LANL (2019a). *Volumes I and II 2019 NPDES Permit Reapplication*. LAUR-19-22215. March 2019. Los Alamos, NM.

LANL (2019b). *Submittal Letter for 2019 NPDES Permit Reapplication.* ESHQSS-19-018. March 26, 2019. Los Alamos, NM.

LANL (2019c). *NPDES Permit Reapplication - Supplemental Package 1*. EPC-DO-19-299. August 19, 2019. Los Alamos, NM.

LANL (2019d). *NPDES Permit Reapplication - Supplemental Package 2*. EPC-DO-19-301. August 19, 2019. Los Alamos, NM.

LANL (2019e). *NPDES Permit Reapplication - Supplemental Package 3*. EPC-DO-19-302. August 20, 2019. Los Alamos, NM.

LANL (2019f). NPDES Permit Reapplication - Supplemental Package 4. EPC-DO-19-318. August 28, 2019. Los Alamos, NM.

LANL (2019g). *Triad Comments on the Draft NPDES Permit No. NM0028355.* EPC-DO-20-096. October 28, 2019. Los Alamos, NM.

LANL (2020). *Triad Comments on the Draft NPDES Permit No. NM0028355.* EPC-DO-20-415. December 17, 2020. Los Alamos, NM.

LANL (2021). *Public Notice LANL limited reopening of Public Comment Period-NPDES Permit No. NM0028355*. March 9, 2021. Los Alamos, NM.

### C.3.2 REPORTS REVIEWED

LANL (2018a*). NPDES Permit NM0028355 Monthly DMRs - January 2018*. EPC-DO-18-087. February 26, 2018. Los Alamos, NM.

LANL (2018b*). NPDES Permit NM0028355 Monthly DMRs - February 2018*. EPC-DO-18-133. March 27, 2018. Los Alamos, NM.

LANL (2018c*). NPDES Permit NM0028355 Monthly and Quarterly DMRs - March 2018*. EPC-DO-18-191. April 26, 2018. Los Alamos, NM.

LANL (2018d). *NPDES Permit NM0028355 Monthly DMRs - April 2018*. EPC-DO-18-212. May 24, 2018. Los Alamos, NM.

LANL (2018e). *NPDES Permit NM0028355 Monthly DMRs - May 2018*. EPC-DO-18-241. June 27, 2018. Los Alamos, NM.

LANL (2018f). *NPDES Permit NM0028355 Monthly and Quarterly DMRs - June 2018*. EPC-DO-18-273. July 27, 2018. Los Alamos, NM.

LANL (2018g). *NPDES Permit NM0028355 Monthly DMRs - July 2018*. EPC-DO-18-301. August 22, 2018. Los Alamos, NM.

LANL (2018h). *NPDES Permit No. NM0028355, Semi-Annual Progress Report (January 1, 2018 through June 30, 2018).* EPC-DO-18-286. August 28, 2018. Los Alamos, NM.

LANL (2018i). *NPDES Permit NM0028355 Monthly DMRs - August 2018*. EPC-DO-18-354. September 25, 2018. Los Alamos, NM.

LANL (2018j). *NPDES Permit NM0028355 Monthly DMRs - September 2018*. EPC-DO-18-391. October 22, 2018. Los Alamos, NM.

LANL (2018k). *NPDES Permit NM0028355 Monthly and Quarterly DMRs - October 2018*. EPC-DO-18-429. November 20, 2018. Los Alamos, NM.

LANL (2018l). *NPDES Permit NM0028355 DMRs - November 2018*. EPC-DO-18-480. December 20, 2018. Los Alamos, NM.

LANL (2019a). *NPDES Permit NM0028355 Monthly and Quarterly DMRs - December 2018*. EPC-DO-19-012. January 24, 2019. Los Alamos, NM.

LANL (2019b). *NPDES Permit NM0028355 Monthly DMRs - January* 2019. EPC-DO-19-053. February 22, 2019. Los Alamos, NM.

LANL (2019c). *NPDES Permit NM0028355 Semi-Annual Progress Report to EPA (July 1, 2018 through December 21, 2018).* EPC-DO-19-055. February 27, 2019. Los Alamos, NM.

LANL (2019d). *NPDES Permit NM0028355 Monthly DMRs - February* 2019. EPC-DO-19-091. March 22, 2019. Los Alamos, NM.

LANL (2019e). *NPDES Permit NM0028355 Monthly and Quarterly DMRs - March* 2019. EPC-DO-19-127. April 19, 2019. Los Alamos, NM.

LANL (2019f). *Notice of Planned Change to Outfall 05A055*. EPC-DO-19-153. May 9, 2019. Los Alamos, NM.

LANL (2019g). *Notice of Planned Change to SERF Ponds*. EPC-DO-19-163. May 23, 2019. Los Alamos, NM.

LANL (2019h). *NPDES Permit NM0028355 Monthly DMRs - April* 2019. EPC-DO-19-169. May 23, 2019. Los Alamos, NM.

LANL (2019i*). Notice of Planned Change to Outfall 03A160*. EPC-DO-19-194. June 12, 2019. Los Alamos, NM.

LANL (2019j*). Five Day Report for TRC Exceedance at Outfall 03A199 on June 19,* 2019. EPC-DO-19-218. June 24, 2019. Los Alamos, NM.

LANL (2019k*). Five Day Report for TRC Exceedance at Outfall 03A181 on June 19,* 2019. EPC-DO-19-219. June 24, 2019. Los Alamos, NM.

LANL (2019l*). NPDES Permit NM0028355 Monthly DMRs - May* 2019. EPC-DO-19-229. June 27, 2019. Los Alamos, NM.

LANL (2019m*). Five Day Report for Failed WET Test at Outfall 051 on June 28, 2019.* EPC-DO-19-219. July 1, 2019. Los Alamos, NM.

LANL (2019n*). Five Day Report for the Release of Sanitary Wastewater on July 9, 2019.* EPC-DO-19-243. July 11, 2019. Los Alamos, NM.

LANL (2019o*). Five Day Report for TRC Exceedance at Outfall 03A181 on July 9, 2019.* EPC-DO-19-247. July 11, 2019. Los Alamos, NM.

LANL (2019p*). NPDES Permit NM0028355 Revised Monthly DMRs* - May 2019. EPC-DO-19-258. July 23, 2019. Los Alamos, NM.

LANL (2019q*). NPDES Permit NM0028355 Monthly and Quarterly DMRs - June* 2019. EPC-DO-19-266. July 26, 2019. Los Alamos, NM.

LANL (2019r*). NPDES Permit NM0028355 Revised Monthly and Quarterly DMRs* – April and November 2018. EPC-DO-19-280. August 12, 2019. Los Alamos, NM.

LANL (2019s*). NPDES Permit NM0028355 Monthly DMRs - July* 2019. EPC-DO-19-310. August 27, 2019. Los Alamos, NM.

LANL (2019t*). NPDES Permit No. NM0028355, Semi-Annual Progress Report (January 1, 2019 through June 30, 2019).* EPC-DO-19-306. August 29, 2019. Los Alamos, NM.

LANL (2019u*). NPDES Permit NM0028355 Monthly DMRs - August* 2019. EPC-DO-19-350. September 24, 2019. Los Alamos, NM.

LANL (2019v*). NPDES Permit NM0028355 Monthly DMRs - September* 2019. EPC-DO-19-394. October 24, 2019. Los Alamos, NM.

LANL (2019w*). NPDES Permit NM0028355 Monthly and Quarterly DMRs - October* 2019. EPC-DO-19-429. November 25, 2019. Los Alamos, NM.

LANL (2019x*). NPDES Permit No. NM0028355, Notice of Planned Change to Power Plant Discharges to Outfall 001*. EPC-DO-19-430. November 27, 2019. Los Alamos, NM.

LANL (2019y*). NPDES Permit NM0028355 DMRs - November* 2019. EPC-DO-19-461. December 18, 2019. Los Alamos, NM.

LANL (2020a). *NPDES Permit NM0028355 Monthly and Quarterly DMRs - December 2019*. EPC-DO-20-029. January 24, 2020. Los Alamos, NM.

LANL (2020b). *NPDES Permit NM0028355 Monthly DMRs - January* 2020. EPC-DO-20-065. February 24, 2020. Los Alamos, NM.

LANL (2020c). *NPDES Permit No. NM0028355, Semi-Annual Progress Report (July 1, 2019 through December 31, 2019).* EPC-DO-20-062. February 25, 2020. Los Alamos, NM.

LANL (2020d). *Five Day Report for TRC Exceedance at Outfall 03A048 on March 11, 2020.* EPC-DO-20-093. March 16, 2020. Los Alamos, NM.

LANL (2020e). *Five Day Report for TRC Exceedance at Outfall 03A048 on March 17, 2020.* EPC-DO-20-100. March 18, 2020. Los Alamos, NM.

LANL (2020f). *NPDES Permit NM0028355 Monthly DMRs - February* 2020. EPC-DO-20-095. March 19, 2020. Los Alamos, NM.

LANL (2020g). *Five Day Report for TRC Exceedance at Outfall 03A048 on March 24, 2020.* EPC-DO-20-107. March 26, 2020. Los Alamos, NM.

LANL (2020h). *Five Day Report for TRC Exceedance at Outfall 03A048 on April 13, 2020.* EPC-DO-20-128. April 16, 2020. Los Alamos, NM.

LANL (2020i). *NPDES Permit NM0028355 Monthly and Quarterly DMRs - March* 2020. EPC-DO-20-130. April 23, 2020. Los Alamos, NM.

LANL (2020j). *Five Day Written Report for TRC Exceedance at Outfall 04A022 on 05062020.* EPC-DO-20-134. May 11, 2020. Los Alamos, NM.

LANL (2020k). *NPDES Permit NM0028355 Monthly DMRs - April* 2020. EPC-DO-20-164. May 21, 2020. Los Alamos, NM.

LANL (2020l). *NPDES Permit NM0028355 Monthly DMRs - May* 2020. EPC-DO-20-209. June 25, 2020. Los Alamos, NM.

LANL (2020m). *NPDES Permit No. NM0028355 Notice of Planned Change to Outfall 001*. EPC-DO-19-221. July 17, 2020. Los Alamos, NM.

LANL (2020n). *NPDES Permit No. NM0028355 Notice of Planned Change to Outfall 03A048*. EPC-DO-19-222. July 14, 2020. Los Alamos, NM.

LANL (2020o). *NPDES Permit NM0028355 Monthly and Quarterly DMRs - June* 2020. EPC-DO-20-246. July 24, 2020. Los Alamos, NM.

LANL (2020p). *NPDES Permit NM0028355 Monthly DMRs - July* 2020. EPC-DO-20-272. August 26, 2020. Los Alamos, NM.

LANL (2020q). NPDES Permit No. NM0028355, Semi-Annual Progress Report (January 1, 2020 through June 30, 2020). EPC-DO-20-264. August 26, 2020. Los Alamos, NM.

LANL (2020r*). NPDES Permit NM0028355 Monthly DMRs - August* 2020. EPC-DO-20-313. September 23, 2020. Los Alamos, NM.

LANL (2020s*). Five Day Report for Copper Exceedance at Outfall 03A113 on Aug 11, 2020.* EPC-DO-20-347. October 10, 2020. Los Alamos, NM.

LANL (2020t*). NPDES Permit NM0028355 Monthly DMRs - September* 2020. EPC-DO-20-346. October 28, 2020. Los Alamos, NM.

LANL (2020u*). NPDES Permit NM0028355 Monthly and Quarterly DMRs - October* 2020. EPC-DO-20-381. November 24, 2020. Los Alamos, NM.

LANL (2020v*). NPDES Permit NM0028355 DMRs - November* 2020. EPC-DO-20-419. December 22, 2020. Los Alamos, NM.

LANL (2021a*). NPDES Permit NM0028355 Monthly and Quarterly DMRs - December 2020*. EPC-DO-21-035. January 27, 2021. Los Alamos, NM.

LANL (2021b*). NPDES Permit NM0028355 Monthly DMRs - January* 2021. EPC-DO-21-072. February 25, 2021. Los Alamos, NM.

LANL (2021c). Public Notice LANL limited reopening of Public Comment Period-NPDES Permit No. NM0028355. March 9, 2021. Los Alamos, NM.

LANL (2021d*). NPDES Permit NM0028355 Monthly DMRs - February* 2021. EPC-DO-21-111. March 25, 2021. Los Alamos, NM.

LANL (2021e*). NPDES Permit NM0028355 Monthly and Quarterly DMRs - March* 2021. EPC-DO-21-143. April 26, 2021. Los Alamos, NM.

LANL (2021f*). NPDES Permit NM0028355 Monthly DMRs - April 2021. Revised Quarterly DMRs for Outfall 051 from January 2019 through December 2020.* EPC-DO-21-162. May 25, 2021. Los Alamos, NM.

### C.3.3 TECHNICAL PROCEDURES REVIEWED

LANL (2019*). P409 1 Waste Acceptance Criteria*. LAU-19-27958. August 7, 2019. Los Alamos, NM.

LANL (2021a*). Compliance Programs Group Technical Procedures – Sampling at NPDES Point-Source Outfalls*. EPC-CP-TP-1202. January 7, 2021. Los Alamos, NM.

LANL (2021b*). Compliance Programs Group Technical Procedures*. EPC-CP-TP-1205. April 21, 2021. Los Alamos, NM.

# Appendix D: New Mexico Spill Regulations

## D.1 Compliance Checklist

The Review Team used the following checklists to assess compliance with the New Mexico Spill Regulations.

| Permit Section | Permit Requirement | Compliance Status (Y/N) | Method of Compliance |
|---|---|---|---|
| 1203.A(1) | With respect to any discharge from any facility of oil or other water contaminant, in such quantity as may with reasonable probability injure or be detrimental to human health, animal or plant life, or property, or unreasonably interfere with the public welfare or the use of property, the following notifications and corrective actions are required:<br>(a) the name, address, and telephone number of the person or persons in charge of the facility, as well as of the owner and/or operator of the facility;<br>(b) the name and address of the facility;<br>(c) the date, time, location, and duration of the discharge;<br>(d) the source and cause of discharge;<br>(e) a description of the discharge, including its chemical composition;<br>(f) the estimated volume of the discharge; and<br>(g) any actions taken to mitigate immediate damage from the discharge. | Y | • Is there a system for notifications? Yes, EPC-DO-QP-101<br>• Who is responsible for making notifications? EPC on-call representative or SME<br>• Who is responsible in each area for identifying and sharing unauthorized discharges? Operators and FOD<br>• Is there training in place for identifying?<br>• Recordkeeping system? With the EPC-CP. N3B and Triad have different forms |
| 1203.A(2) | When in doubt as to which agency to notify, the person in charge of the facility shall notify the chief of the ground water quality bureau of the department. If that department does not have authority pursuant to commission delegation, the department shall notify the appropriate constituent agency. | Y | Are notifications going to the correct individual at NM? Yes, multiple bureaus at NMED. |
| 1203.A(3) | Within one week after the discharger has learned of the discharge, the facility owner and/or operator shall send written notification to the same department official, verifying the prior oral notification as to each of the foregoing items and providing any appropriate additions or corrections to the information contained in the prior oral notification. | Y | Are follow up reports being submitted? Yes, in a timely manner. No reportable spill deadlines missed based on records review. |
| 1203.A(4) | The oral and written notification and reporting requirements contained in this Subsection A are not intended to be duplicative of discharge notification and reporting requirements promulgated by the Oil Conservation Commission (OCC) or by the Oil Conservation Division (OCD); therefore, any facility which is subject to OCC or OCD discharge notification and reporting requirements need not additionally comply with the notification and reporting requirements herein. | NA | |

| Permit Section | Permit Requirement | Compliance Status (Y/N) | Method of Compliance |
|---|---|---|---|
| 1203.A(5) | As soon as possible after learning of such a discharge, the owner/operator of the facility shall take such corrective actions as are necessary or appropriate to contain and remove or mitigate the damage caused by the discharge. | Y | Are corrective actions done in consultation with the State? Yes, oral and written reporting are provided per required deadlines based on complete review of spills tracking matrix and spot check of submitted reports. |
| 1203.A(6) | If it is possible to do so without unduly delaying needed corrective actions, the facility owner/operator shall endeavor to contact and consult with the chief of the ground water quality bureau of the department or appropriate counterpart in a delegated agency, in an effort to determine the department's views as to what further corrective actions may be necessary or appropriate to the discharge in question. In any event, no later than fifteen (15) days after the discharger learns of the discharge, the facility owner/operator shall send to said Bureau Chief a written report describing any corrective actions taken and/or to be taken relative to the discharge. Upon a written request and for good cause shown, the bureau chief may extend the time limit beyond fifteen (15) days. | Y | Are corrective action reports submitted in a timely manner? Yes, oral and written reporting are provided per required deadlines based on complete review of spills tracking matrix and spot check of submitted reports. |
| 1203.A(7) | The bureau chief shall approve or disapprove in writing the foregoing corrective action report within thirty (30) days of its receipt by the department. In the event that the report is not satisfactory to the department, the bureau chief shall specify in writing to the facility owner/operator any shortcomings in the report or in the corrective actions already taken or proposed to be taken relative to the discharge, and shall give the facility owner/operator a reasonable and clearly specified time within which to submit a modified corrective action report. The bureau chief shall approve or disapprove in writing the modified corrective action report within fifteen (15) days of its receipt by the department. | Y | Records of correspondence, approvals, and requests from the State.<br>Any required abatement plans in recent years? No shortcomings based on State feedback. Some releases required ongoing corrective action and regular updates to the State. |
| 1203.A(8) | In the event that the modified corrective action report also is unsatisfactory to the department, the facility owner/operator has five (5) days from the notification by the bureau chief that it is unsatisfactory to appeal to the department secretary. The department secretary shall approve or disapprove the modified corrective action report within five (5) days of receipt of the appeal from the bureau chief's decision. In the absence of either corrective action consistent with the approved corrective action report or with the decision of the secretary concerning the shortcomings of the modified corrective action report, the department may take whatever enforcement or legal action it deems necessary or appropriate. | NA | |
| 1203.A(9) | If the secretary determines that the discharge causes or may with reasonable probability cause water pollution in excess of the standards and requirements of Section 20.6.2.4103 NMAC, and the water pollution will not be abated within one hundred and eighty (180) days after notice is required to be given pursuant to Paragraph (1) of Subsection A of Section 20.6.2.1203 NMAC, the secretary may notify the facility owner/operator that he is a responsible person and that an abatement plan may be required | NA | |

| Permit Section | Permit Requirement | Compliance Status (Y/N) | Method of Compliance |
|---|---|---|---|
| | pursuant to Section 20.6.2.4104 and Subsection A of Section 20.6.2.4106 NMAC. | | |
| 1203.B | Exempt from the requirements of this section are continuous or periodic discharges which are made:<br>(1) in conformance with regulations of the commission and rules, regulations or orders of other state or federal agencies; or<br>(2) in violation of regulations of the commission, but pursuant to an assurance of discontinuance or schedule of compliance approved by the commission or one of its duly authorized constituent agencies. | NA | |
| 1203.C | As used in this section and in Sections 20.6.2.4100 through 20.6.2.4115 NMAC, but not in other sections of this part:<br>(1) "discharge" means spilling, leaking, pumping, pouring, emitting, emptying, or dumping into water or in a location and manner where there is a reasonable probability that the discharged substance will reach surface or subsurface water;<br>(2) "facility" means any structure, installation, operation, storage tank, transmission line, motor vehicle, rolling stock, or activity of any kind, whether stationary or mobile;<br>(3) "oil" means oil of any kind or in any form including petroleum, fuel oil, sludge, oil refuse and oil mixed with wastes;<br>(4) "operator" means the person or persons responsible for the overall operations of a facility; and<br>(5) "owner' means the person or persons who own a facility, or part of a facility. | Y | What are the criteria established for reporting-level discharges (i.e. reasonable probability that the discharged substance will reach surface or subsurface water)? Per their procedure this is best professional judgement. |
| 1203.D | Notification of discharge received pursuant to this part or information obtained by the exploitation of such notification shall not be used against any such person in any criminal case, except for perjury or for giving a false statement. | Y | |
| 1203.E | Any person who has any information relating to any discharge from any facility of oil or other water contaminant, in such quantity as may with reasonable probability injure or be detrimental to human health, animal or plant life, or property, or unreasonably interfere with the public welfare or the use of property, is urged to notify the chief of the ground water quality bureau of the department. Upon such notification, the secretary may require an owner/operator or a responsible person to perform corrective actions pursuant to Paragraphs (5) and (9) of Subsection A of Section 20.6.2.1203 NMAC. | Y | What are the criteria established for reporting-level discharges (i.e. reasonable probability injure or be detrimental to human health, animal or plant life, or property and unreasonably interfere with the public welfare or the use of property)? Per their procedure this is best professional judgement. |

## D.2 Observation Forms

The Review Team made the following observations during the review of LANL's program to deal with spills against New Mexico's spill regulations.

# SEP – Second Triennial Review Observation Form

*PRE-DECISIONAL*

**Observation No.:** Spill-001 **Category:** Procedures

**Observation Title:** Improvements to procedures and forms

**Observation Type:** Positive Practice

**Date:** 6/29/2021

**Technical Area:** TA-54 **Location:** TA-54

**Operational Entity:** N3B

**Reference:**

**Requirement:**

**Notes:**

A recent gap analysis on procedures identified the necessity to update and create additional procedures and forms. There is an effort for continual improvement.

**Recommendation:**

Good work.

**Response:**

**Status:** Not Applicable for In Compliance & Positive **Reviewer:** Erik Powers

# SEP – Second Triennial Review Observation Form

*PRE-DECISIONAL*

**Observation No.:** Spill-002 **Category:** Recordkeeping

**Observation Title:** Tracking sheet update

**Observation Type:** Efficiency / Improvement Recommendation

**Date:** 6/29/2021

**Technical Area:** TA-54 **Location:** TA-54

**Operational Entity:** N3B

**Reference:**

**Requirement:**

**Notes:**

It was difficult to determine which spills were reportable from the N3B tracking spreadsheet.

**Recommendation:**

Suggest additional fields to include whether spill was reportable and reporting disposition.

**Response:**

Changes to the tracking spreadsheet were made during the interview. Reviewer observed the revision.

**Status:** Closed **Reviewer:** Erik Powers

# SEP – Second Triennial Review Observation Form

*PRE-DECISIONAL*

**Observation No.:** Spill-003 **Category:** Reporting

**Observation Title:** Triad Spills Team - Overall Positive

**Observation Type:** Positive Practice

**Date:** 6/30/2021

**Technical Area:** Universal **Location:** Universal

**Operational Entity:** Triad

**Reference:** NM 20.6.2.1203

**Requirement:**

With respect to any discharge from any facility of oil or other water contaminant, in such quantity as may with reasonable probability injure or be detrimental to human health, animal or plant life, or property, or unreasonably interfere with the public welfare or the use of property, the following notifications and actions are required…

**Notes:**

The Triad team is meeting their required notifications and reporting deadlines for discharges, spills, and releases. Their tracking system is robust, and the communication within their team is excellent. I was able to observe first-hand the notification and reporting response to a spill that occurred during the on-site review.

**Recommendation:**

None

**Response:**

**Status:** Not Applicable for In Compliance & Positive **Reviewer:** Erik Powers

## D.3 Spills Checklist References

LANL (2009). Unpermitted Discharge Reporting Decision Tree. Los Alamos, NM.

LANL (2017). *Standard Operating Procedure - Environmental Reporting Requirements for Releases or Events.*EPC-DO-QP-101. August 7, 2017. Los Alamos, NM.

N3B (2021). Tracking Spreadsheet for Spills. Los Alamos, NM.

Triad (2021). Triad Spills Tracking Database. Los Alamos, NM.

# Appendix E: Federal Resource Conservation and Recovery Act / New Mexico Hazardous Waste Act and New Mexico Solid Waste Act

## E.1 Compliance Checklist

The Review Team used the following checklists to assess compliance with the Los Alamos National Laboratory's (LANL) Hazardous Waste Facility Permit (HWFP).

### E.1.1 DEFINITIONS AND REGULATORY REFERENCES

| Definitions and Regulatory References Associated with CAA/SAA/UWA/UOA/NMSW Checklist Header Row | |
|---|---|
| Site ID | Unique site identification number assigned to each regulated waste unit at LANL |
| Site Type | **CAA:** Central Accumulation Area (LANL is governed by regulations for Large Quantity Generators of Hazardous Waste specified in 40 CFR 262.17) |
| | **SAA:** Satellite Accumulation Area (LANL is governed by regulations for Large Quantity Generators of Hazardous Waste specified in 40 CFR 262.15) |
| | **UWA:** Universal Waste Area (LANL is governed by regulations for Large Quantity Generators of Universal Waste specified in 40 CFR 273.33) |
| | **UOA:** Used Oil Area (LANL is governed by regulations for Used Oil Generators) |
| | **NMSW:** New Mexico Special Waste (LANL is governed by regulations for non-hazardous special waste as specified in NMAC 20.9.8) |
| TA | Technical area where regulated waste unit is located. |
| Visited? | A verification on if the site was visited. A small portion of sites were not visited due to security classification or access restrictions. Some of these sites had been deactivated, but not removed from the site inventory list. |
| Container Condition | **CAA and SAA:** 40 CFR 264.171 - If a container holding hazardous waste is not in good condition (e.g., severe rusting, apparent structural defects) or if it begins to leak, the owner or operator must transfer the hazardous waste from this container to a container that is in good condition or manage the waste in some other way that complies with the requirements of this part. |

| Definitions and Regulatory References Associated with CAA/SAA/UWA/UOA/NMSW Checklist Header Row | |
|---|---|
| Container Condition | **UWA:**<br>NMAC 20.4.1.1001(B) - Alternative universal waste labeling. As an alternative to the labeling requirements for universal waste in 40 CFR sections 273.14 and 273.34, universal waste handlers may use other words that accurately identify the universal waste material, for example, "spent bulbs" or "batteries for recycling." Note that the labeling must be either on the individual piece of universal waste, on the container in which the universal waste is stored, or on a pallet of banded or otherwise bound universal waste being readied for shipment.<br>Batteries: 40 CFR 273.33(a)(1) - The container must be closed, structurally sound, compatible with the contents of the battery, and must lack evidence of leakage, spillage, or damage that could cause leakage under reasonably foreseeable conditions.<br>Mercury Containing Equipment: 40 CFR 273.33(c)(2) - The container must be closed, structurally sound, compatible with the contents of the device, must lack evidence of leakage, spillage, or damage that could cause leakage under reasonably foreseeable conditions, and must be reasonably designed to prevent the escape of mercury into the environment by volatilization or any other means.<br>Lamps: 40 CFR 273.33(d)(1) - A small quantity handler of universal waste must contain any lamp in containers or packages that are structurally sound, adequate to prevent breakage, and compatible with the contents of the lamps. Such containers and packages must remain closed and must lack evidence of leakage, spillage or damage that could cause leakage under reasonably foreseeable conditions.<br>Aerosol Cans NMAC 20.4.1.1001.D.(2)(b) - The accumulation container must be closed, structurally sound, compatible with the contents of the universal waste aerosol can, and must lack evidence of leakage, spillage, or damage that could cause leakage under reasonably foreseeable conditions. The universal waste aerosol cans must be sorted by type and compatibility of contents to ensure that incompatible materials are segregated and managed appropriately in separate accumulation containers. |
| | **UOA:** 40 CFR 279.22 (b) - Containers and aboveground tanks used to store used oil at generator facilities must be:(1) In good condition (no severe rusting, apparent structural defects or deterioration); and (2) Not leaking (no visible leaks). |
| Containers Closed | **CAA and SAA:** 40 CFR 264.173(a) - A container holding hazardous waste must always be closed during storage, except when it is necessary to add or remove waste. |
| | **UWA:** Reference "Container Condition" regulations above |
| | **UOA:** 20.4.1.1003.B(1) - In addition to the requirements for used oil storage in 40 CFR Section 279.22, containers and aboveground tanks used to store used oil outdoors must be closed, except when it is necessary to add or remove used oil. |

| Definitions and Regulatory References Associated with CAA/SAA/UWA/UOA/NMSW Checklist Header Row | |
|---|---|
| Content Label | **CAA and SAA:** No regulations adopted by NMAC 20.4.1. require content labeling for waste stored at CAAs or SAAs, only for waste staged for transport. Content labeling observations for stored waste will be written as procedural observations.<br>**Pre-Transport Requirements:** 40 CFR 262.31 - Before transporting or offering hazardous waste for transportation off-site, a generator must label each package in accordance with the applicable Department of Transportation regulations on hazardous materials under 49 CFR part 172. |
| | **UWA:**<br>Batteries: 40 CFR 273.34(a) - Universal waste batteries (i.e., each battery), or a container or tank in which the batteries are contained, must be labeled or marked clearly with any one of the following phrases: "Universal Waste—Battery(ies)," or "Waste Battery(ies)," or "Used Battery(ies)."<br>Mercury Containing Equipment: 40 CFR 273.34(d)(1) - Mercury-containing equipment (i.e., each device), or a container in which the equipment is contained, must be labeled or marked clearly with any of the following phrases: "Universal Waste—Mercury Containing Equipment," "Waste Mercury-Containing Equipment," or "Used Mercury-Containing Equipment."<br>And 40 CFR 273.34(d)(2) - A universal waste mercury-containing thermostat or container containing only universal waste mercury containing thermostats may be labeled or marked clearly with any of the following phrases: ''Universal Waste—Mercury Thermostat(s),'' ''Waste Mercury Thermostat(s),'' or ''Used Mercury Thermostat(s).''<br>Lamps: 40 CFR 273.34(e) - Each lamp or a container or package in which such lamps are contained must be labeled or marked clearly with any one of the following phrases: ''Universal Waste—Lamp(s),'' or ''Waste Lamp(s),'' or ''Used Lamp(s)''.<br>Aerosol Cans NMAC 20.4.1.1001.D.(2)(b) - A handler of universal waste may accumulate universal waste aerosol cans in an accumulation container provided it is clearly marked for such use. |
| | **UOA:** NMAC 20.4.1.1003(A) - Alternative used oil labeling for generators. As an alternative to the labeling requirements for containers and aboveground tanks used to store used oil in 40 CFR Section 279.22, used oil generators may use other words that accurately identify the used oil, for example, "waste oil" or "oil for recycling."40 CFR 279.22(c) – Labels (1) Containers and aboveground tanks used to store used oil at generator facilities must be labeled or marked clearly with the words "Used Oil." |
| | **NMSW:** NMAC 20.9.8.10.C - A generator of special waste shall assure that all containers of special waste when deemed full and placed in storage are clearly labeled or marked indicating contents. |

| Definitions and Regulatory References Associated with CAA/SAA/UWA/UOA/NMSW Checklist Header Row | |
|---|---|
| Training | **CAA and SAA:** No regulations adopted by NMAC 20.4.1. require training for generators of hazardous waste at CAA and SAAs, but hazardous waste generation and storage area requirements are included in the LANL Training: *"Waste Generator Overview"* |
| | **UWA:** 40 CFR 273.36 - A large quantity handler of universal waste must ensure that all employees are thoroughly familiar with proper waste handling and emergency procedures, relative to their responsibilities during normal facility operations and emergencies. |
| | **UOA:** No regulations adopted by NMAC 20.4.1. require training for generators of used oil, but used oil generation and storage area requirements are included in the LANL Training: *"Waste Generator Overview"* |
| Unregulated Waste | Unregulated waste containers will be checked for uncharacterized wastes according to 40 CFR 262.11 - A person who generates a solid waste, as defined in 40 CFR 261.2, must determine if that waste is a hazardous waste using the following method:<br>(a) He should first determine if the waste is excluded from regulation under 40CFR 261.4.<br>(b) He must then determine if the waste is listed as a hazardous waste in subpart D of 40 CFR part 261. |
| Compatible Storage | **CAA:** 40 CFR 264.177 - Special requirements for incompatible wastes<br>(a) Incompatible wastes, or incompatible wastes and materials (see appendix V for examples), must not be placed in the same container, unless Sec. 264.17(b) is complied with.<br>(b) Hazardous waste must not be placed in an unwashed container that previously held an incompatible waste or material.<br>(c) A storage container holding a hazardous waste that is incompatible with any waste or other materials stored nearby in other containers, piles, open tanks, or surface impoundments must be separated from the other materials or protected from them by means of a dike, berm, wall, or other device. |
| | **SAA:** 40 CFR 262.15(a)(3) - require segregation of incompatible wastes in Satellite Accumulation Areas. |
| Labeled as HW | **CAA:** 40 CFR 262.17(a)(5)(i)(A-C) - A large quantity generator must mark or label its containers with the following: (A) The words “Hazardous Waste”;<br>(B) An indication of the hazards of the contents (examples include, but are not limited to, the applicable hazardous waste characteristic(s) (i.e., ignitable, corrosive, reactive, toxic); and<br>(C) The date upon which each period of accumulation begins clearly visible for inspection on each container. |
| | **SAA:** 40 CFR 262.15(a)(5) – Similar to CAA, containers must mark or label with the words "Hazardous Waste" and identify the contents of the containers. No accumulation date is noted unless the container is full. |

| Definitions and Regulatory References Associated with CAA/SAA/UWA/UOA/NMSW Checklist Header Row | |
|---|---|
| Volumetric Limit | **SAA:** 40 CFR 262.15(a) - A generator may accumulate as much as **55 gallons of non-acute hazardous waste and/or either one quart of liquid acute hazardous waste** listed in §261.31 or §261.33(e) of this chapter or 1 kg (2.2 lbs) of solid acute hazardous waste listed in §261.31 or §261.33(e) of this chapter in containers at or near any point of generation where wastes initially accumulate which is under the control of the operator of the process generating the waste, without a permit or interim status and without complying with the requirements of parts 124, 264 through 267, and 270 of this chapter, provided that all of the conditions for exemption in this section are met.. |
| Accumulation Time Limit | **CAA:** 40 CFR 262.17- A large quantity generator may accumulate hazardous waste on site for ≤ 90 days without a permit or interim status, and without complying with the requirements of parts 124, 264 through 267, and 270 of this chapter, or the notification requirements of section 3010 of RCRA, provided that all of the specified conditions for exemption are met, unless an extension has been approved by the state per 40 CFR 262.17(b): |
| | **UWA:** 40 CFR 273.35(a) - A large quantity handler of universal waste may accumulate universal waste for no longer than one year from the date the universal waste is generated, or received from another handler, unless the requirements of paragraph (b) of this section are met. |
| | **NMSW:** NMAC 20.9.8.10(B) - No person who stores special waste shall store the waste for longer than 90 days from the date the waste is placed in storage awaiting transportation, processing, or final disposal, unless otherwise approved by the Department. |
| WCAT Verified | This section of the checklist identify the waste profile numbers that were cross- referenced against the WCAT database. Although not required to have an active profile of hazardous waste prior to accumulation, waste profiles and characterization documentation was reviewed for a representative sample of wastes for potential of mischaracterization of waste. |

### E.1.2 CAA, SAA, UWA, UOA AND NMSW UNITS

| 6/21/21 | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Area Description | | | | CAA, SAA, UOA, UWA and NMSW Items | | | | | CAA & SAA Items | | SAA Only | CAA UWA & NMSW | WCAT Information Verification and Additional Notes | | |
| Site ID | Site Type | TA | Visited? | Container Condition | Containers Closed | Content Label | Training | Unregulated Waste | Compatible Storage | Labeled as HW | Volumetric Limit | Accumulation Time Limit | WCAT ID Verified | WCAT Profile and Notes | |
| 6209 | SAA | 03 | Y | - | - | - | Y | - | - | - | - | | NA | No waste stored | |
| 51040 | CAA | 03 | Y | Y | Y | Y | Y | N | Y | Y | - | Y | | Spill kit and unlabeled container | |
| 6854 | SAA | 03 | Y | Y | Y | Y | Y | N | Y | Y | Y | | | | |
| 50720 | SAA | 03 | Y | Y | Y | Y | Y | N | Y | Y | Y | | | | |
| 51480 | SWA | 03 | Y | Y | Y | Y | Y | N | Y | Y | Y | | | | |
| 50341 | UOA | 03 | Y | Y | Y | Y | Y | N | | | | | | | |
| 50560 | CAA | 03 | Y | - | - | - | Y | - | - | - | | - | | No waste stored | |
| 6554 | UWA | 50 | Y | Y | Y | Y | | | | | | Y | | Batteries | |
| 2111 | UWA | 50 | Y | | | | | | | | | | | No waste present during review | |
| 3228 | UOA | 50 | Y | Y | Y | Y | | | | | | | | | |

| Area Description | | | | CAA, SAA, UOA, UWA and NMSW Items | | | | | CAA & SAA Items | | SAA Only | CAA UWA & NMSW | WCAT Information Verification and Additional Notes | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Site ID | Site Type | TA | Visited? | Container Condition | Containers Closed | Content Label | Training | Unregulated Waste | Compatible Storage | Labeled as HW | Volumetric Limit | Accumulation Time Limit | WCAT ID Verified | WCAT Profile and Notes |
| 6297 | SWA | 50 | Y | | | | | | | | | | | No waste present during review |
| 1778 | CAA | 50 | Y | | | | Y | | | | | | | No waste present during review |
| 6636 | UWA | 55 | Y | Y | Y | Y | | | | | | Y | | Batteries |
| 6204 | UOA | 55 | Y | Y | Y | Y | | | | | | | | Batteries |
| 5999 | SWA | 55 | Y | Y | Y | Y | | Y | | | | Y | | Glycol |
| 6047 | CAA | 55 | Y | Y | Y | Y | Y | | Y | Y | | Y | WSP 4934 Container 863841 | Nitric Acid (corrosive) Spill Kit noted without acid absorbents |

| 6/22/21 | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Area Description | | | | CAA, SAA, UOA, UWA and NMSW Items | | | | | CAA & SAA Items | | SAA Only | CAA UWA & NMSW | WCAT Information Verification and Additional Notes | | |
| Site ID | Site Type | TA | Visited? | Container Condition | Containers Closed | Content Label | Training | Unregulated Waste | Compatible Storage | Labeled as HW | Volumetric Limit | Accumulation Time Limit | WCAT ID Verified | WCAT Profile and Notes | |
| 3916 | CAA | 36 | Y | Y | Y | Y | Y | | Y | Y | | Y | | D001-002-009 | |
| 6355 | UOA | 36 | Y | Y | Y | Y | Y | | | | | | | | |
| 3903 | UWA | 36 | Y | | | | Y | | | | | | | No waste present during review | |
| 3902 | SWA | 36 | Y | | | | Y | | | | | | | No waste present during review | |
| 6251 | SAA | 36 | N | | | | Y | | | | | | | Not visited due to ventilation repair | |
| 51101 | SWA | 15 | Y | Y | Y | Y | Y | | | | | Y | | | |
| 6745 | UOA | 15 | Y | Y | Y | Y | Y | | | | | | | | |
| 6220 | UOA | 15 | Y | Y | Y | Y | Y | | | | | | | | |
| 6759 | UWA | 15 | Y | Y | Y | Y | Y | | | | | Y | | | |

| Area Description | | | | CAA, SAA, UOA, UWA and NMSW Items | | | | | CAA & SAA Items | | SAA Only | CAA UWA & NMSW | WCAT Information Verification and Additional Notes | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Site ID | Site Type | TA | Visited? | Container Condition | Containers Closed | Content Label | Training | Unregulated Waste | Compatible Storage | Labeled as HW | Volumetric Limit | Accumulation Time Limit | WCAT ID Verified | WCAT Profile and Notes |
| 6288 | UOA | 15 | Y | Y | Y | Y | Y | | | | | | | |
| 6287 | UOA | 15 | Y | Y | Y | Y | Y | | | | | | | 1/2 full drum |
| 6234 | UWA | 15 | Y | Y | Y | Y | Y | | | | | Y | | |
| 2950 | SAA | 55 | N | | | | Y | | | | | | | Need Sigma 15 access |
| 2677 | SAA | 55 | N | | | | Y | | | | | | | Red lighted due to contamination in area |
| 6618 | SAA | 55 | Y | Y | Y | Y | Y | N | Y | Y | Y | | | Waste profile pending - WPF45962 |
| 1439 | CAA | 55 | Y | Y | Y | Y | Y | | Y | NA | | Y | | Non-Hazardous Glycol waste container |
| 2695 | UOA | 55 | Y | Y | Y | Y | | | | | | | | |
| 1582 | UWA | 55 | Y | Y | Y | Y | | | | | | Y | | Aerosol Cans, Batteries, Bulbs |
| 6764 | SWA | 55 | Y | | | | | | | | | | | No waste stored at time of review |

| Area Description | | | | CAA, SAA, UOA, UWA and NMSW Items | | | | | CAA & SAA Items | | SAA Only | CAA UWA & NMSW | WCAT Information Verification and Additional Notes | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Site ID | Site Type | TA | Visited? | Container Condition | Containers Closed | Content Label | Training | Unregulated Waste | Compatible Storage | Labeled as HW | Volumetric Limit | Accumulation Time Limit | WCAT ID Verified | WCAT Profile and Notes |
| 2950 | SAA | 55 | N | | | | Y | | | | | | | Need Sigma 15 access |
| 2677 | SAA | 55 | N | | | | Y | | | | | | | Red lighted due to contamination in area |
| 6618 | SAA | 55 | Y | Y | Y | Y | Y | N | Y | Y | Y | | | Waste profile pending - WPF45962 |
| 1439 | CAA | 55 | Y | Y | Y | Y | Y | | Y | NA | | Y | | Non-Hazardous Glycol waste container |
| 2695 | UOA | 55 | Y | Y | Y | Y | | | | | | | | |
| 1582 | UWA | 55 | Y | Y | Y | Y | | | | | | Y | | Aerosol Cans, Batteries, Bulbs |
| 6764 | SWA | 55 | Y | | | | | | | | | | | No waste stored at time of review |

| 6/23/21 | | | | | |
|---|---|---|---|---|---|
| Area Description | CAA, SAA, UOA, UWA and NMSW Items | CAA & SAA Items | SAA Only | CAA UWA & NMSW | WCAT Information Verification and Additional Notes |
| | | | | | |

| Site ID | Site Type | TA | Visited? | Container Condition | Containers Closed | Content Label | Training | Unregulated Waste | Compatible Storage | Labeled as HW | Volumetric Limit | Accumulation Time Limit | WCAT ID Verified | WCAT Profile and Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6346 | SWA | 35 | Y | Y | Y | Y | Y | | | | | Y | | Petroleum contaminated soil |
| 5309 | UWA | 35 | Y | Y | Y | Y | Y | | | | | Y | | Bulbs and batteries |
| 6522 | SAA | 35 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |
| 1158 | SAA | 35 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |
| 6753 | SAA | 35 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |
| 6290 | SAA | 35 | N | | | | Y | | | | | | | No access |
| 5018 | SAA | 35 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |
| 6523 | SAA | 35 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |
| 3021 | UOA | 35 | Y | Y | Y | Y | Y | | | | | | | Used oil filters and antifreeze |
| 6389 | SAA | 35 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |
| 6510 | SAA | 35 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |
| Area Description | | | | CAA, SAA, UOA, UWA and NMSW Items | | | | | CAA & SAA Items | | SAA Only | CAA UWA & NMSW | WCAT Information Verification and Additional Notes | |

| Site ID | Site Type | TA | Visited? | Container Condition | Containers Closed | Content Label | Training | Unregulated Waste | Compatible Storage | Labeled as HW | Volumetric Limit | Accumulation Time Limit | WCAT ID Verified | WCAT Profile and Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6386 | SAA | 35 | Y | | | | Y | | | | | | | No waste present during review |
| 6387 | SAA | 35 | Y | | | | Y | | | | | | | No waste present during review |
| 6373 | SAA | 35 | Y | Y | Y | Y | Y | | Y | Y | Y | | | Waste profile pending for stored waste |
| 6388 | SAA | 35 | Y | Y | Y | Y | Y | | Y | Y | Y | | | Waste profile pending for stored waste |
| 6374 | SAA | 35 | Y | Y | Y | Y | Y | | Y | Y | Y | | | Waste profile pending for stored waste |
| 6375 | SAA | 35 | Y | Y | Y | Y | Y | | Y | Y | Y | | | Waste profile pending for stored waste |
| 6376 | SAA | 35 | Y | Y | Y | Y | Y | | Y | Y | Y | | | Waste profile pending for stored waste |
| 3316 | SAA | 35 | Y | Y | Y | Y | Y | | Y | Y | Y | | Y | WCATS shows waste in area 1640. |
| 51180 | SAA | 35 | Y | Y | Y | Y | Y | | Y | Y | Y | | | Waste profile pending for stored waste |
| 6377 | SAA | 35 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |
| Area Description | | | | CAA, SAA, UOA, UWA and NMSW Items | | | | | CAA & SAA Items | | SAA Only | CAA UWA & NMSW | WCAT Information Verification and Additional Notes | |

| Site ID | Site Type | TA | Visited? | Container Condition | Containers Closed | Content Label | Training | Unregulated Waste | Compatible Storage | Labeled as HW | Volumetric Limit | Accumulation Time Limit | WCAT ID Verified | WCAT Profile and Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6646 | SAA | 35 | Y | | | | Y | | | | | | | No waste present during review |
| 6378 | SAA | 35 | Y | | | | Y | | | | | | | No waste present during review |
| 6380 | SAA | 35 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |
| 6381 | SAA | 35 | Y | Y | Y | Y | Y | | Y | Y | Y | | | Waste profile pending for stored waste |
| 6673 | SAA | 35 | Y | | | | Y | | | | | | | No waste present during review |
| 6647 | SAA | 35 | Y | | | | Y | | | | | | | No waste present during review |
| 6379 | SAA | 35 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |
| 6859 | SAA | 35 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |
| 6469 | SAA | 35 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |
| 6756 | SAA | 35 | Y | Y | Y | Y | Y | | Y | Y | Y | | Y | 49752 |
| 2178 | SAA | 35 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |
| Area Description | | | | CAA, SAA, UOA, UWA and NMSW Items | | | | | CAA & SAA Items | | SAA Only | CAA UWA & NMSW | WCAT Information Verification and Additional Notes | |

| Site ID | Site Type | TA | Visited? | Container Condition | Containers Closed | Content Label | Training | Unregulated Waste | Compatible Storage | Labeled as HW | Volumetric Limit | Accumulation Time Limit | WCAT ID Verified | WCAT Profile and Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6607 | CAA | 35 | Y | Y | Y | Y | Y | | Y | Y | Y | Y | | |
| 1780 | CAA | 35 | Y | Y | Y | Y | Y | | Y | Y | Y | Y | | |
| 6213 | SAA | 35 | N | | | | Y | | | | | | | Not accessible during review |
| 3027 | SAA | 35 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |
| 6308 | SAA | 35 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |
| 2190 | SAA | 35 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |
| 51240 | UOA | 35 | Y | Y | Y | Y | Y | | | | | | | 55-gallon drum |
| 5685 | SAA | 35 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |
| 3636 | SAA | 35 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |
| 6011 | SAA | 35 | Y | Y | Y | Y | Y | | Y | Y | Y | | | Lab waste |
| 387 | SAA | 35 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |
| 6811 | SAA | 35 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |
| Area Description | | | | CAA, SAA, UOA, UWA and NMSW Items | | | | | CAA & SAA Items | | SAA Only | CAA UWA & NMSW | WCAT Information Verification and Additional Notes | |

| Site ID | Site Type | TA | Visited? | Container Condition | Containers Closed | Content Label | Training | Unregulated Waste | Compatible Storage | Labeled as HW | Volumetric Limit | Accumulation Time Limit | WCAT ID Verified | WCAT Profile and Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5995 | SAA | 35 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |
| 322 | SAA | 35 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |
| 51720 | SWA | 35 | Y | Y | Y | Y | Y | | | | | Y | | Asbestos floor tiles |
| 51662 | UOA | 35 | Y | Y | Y | Y | Y | | | | | | | Water in secondary containment |
| 50440 | SAA | 35 | Y | | | | Y | | | | | | | No waste present during review |
| 6713 | SAA | 35 | Y | Y | Y | Y | Y | | Y | Y | Y | | | Glovebox |
| 6714 | SAA | 35 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |
| 6794 | SAA | 35 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |
| 6290 | SAA | 35 | N | | | | Y | | | | | | | Not visited |
| Area Description | | | | CAA, SAA, UOA, UWA and NMSW Items | | | | | CAA & SAA Items | | SAA Only | CAA UWA & NMSW | WCAT Information Verification and Additional Notes | |

| Site ID | Site Type | TA | Visited? | Container Condition | Containers Closed | Content Label | Training | Unregulated Waste | Compatible Storage | Labeled as HW | Volumetric Limit | Accumulation Time Limit | WCAT ID Verified | WCAT Profile and Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6403 | SAA | 16 | Y | Y | Y | Y | | | Y | Y | Y | | | Noted "bad bullets" as reactive waste. Recommend management as a recycled material as small arms ammunition are not classified as reactive (EPA Nov. 30, 1984). |
| 5036 | UWA | 16 | Y | Y | Y | Y | | | | | | Y | | Batteries |
| 5826 | SWA | 60 | Y | | | | | | | | | | | No waste stored during review |
| 6830 | SWA | 60 | N | | | | | | | | | | | All waste management units located in secured area with potential radiation exposure and unavailable for review |
| 6680 | UOA | 60 | N | | | | | | | | | | | |
| 6679 | UWA | 60 | N | | | | | | | | | | | |
| 6404 | CAA | 60 | N | | | | | | | | | | | |
| 6626 | CAA | 35 | Y | Y | Y | Y | Y | | Y | Y | | Y | 1. 49072<br>2. 49559 | 1. Toluene, IPA, Chloroform (Ignitable, Toxic)<br>2. NaOH (Corrosive) |

| Area Description | | | | CAA, SAA, UOA, UWA and NMSW Items | | | | | CAA & SAA Items | | SAA Only | CAA UWA & NMSW | WCAT Information Verification and Additional Notes | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Site ID | Site Type | TA | Visited? | Container Condition | Containers Closed | Content Label | Training | Unregulated Waste | Compatible Storage | Labeled as HW | Volumetric Limit | Accumulation Time Limit | WCAT ID Verified | WCAT Profile and Notes |
| 6770 | SAA | 35 | Y | Y | Y | Y | | | Y | Y | Y | | 46423 | Isopropanol (Ignitable) |
| 6839 | SAA | 35 | Y | Y | Y | Y | | | Y | Y | Y | | | |
| 6383 | SAA | 35 | Y | Y | Y | Y | | | Y | Y | Y | | | |
| 1210 | SAA | 35 | Y | Y | Y | Y | | | Y | Y | Y | | | |
| 51700 | SAA | 35 | Y | Y | Y | Y | | | Y | Y | Y | | | |
| 3728 | SAA | 35 | Y | Y | Y | Y | | | Y | Y | Y | | | |
| 6358 | SAA | 35 | Y | Y | Y | Y | | | Y | Y | Y | | 44271 | Hydrogen Fluoride (Reactive, Toxic, Corrosive) |
| 250 | SAA | 35 | Y | Y | Y | Y | | | Y | Y | Y | | | |
| 6738 | SAA | 35 | Y | Y | Y | Y | | | Y | Y | Y | | | |
| 51222 | SAA | 35 | Y | Y | Y | Y | | | Y | Y | Y | | | |
| 710 | SAA | 35 | Y | Y | Y | Y | | | Y | Y | Y | | | |

| Area Description | | | | CAA, SAA, UOA, UWA and NMSW Items | | | | | CAA & SAA Items | | SAA Only | CAA UWA & NMSW | WCAT Information Verification and Additional Notes | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Site ID | Site Type | TA | Visited? | Container Condition | Containers Closed | Content Label | Training | Unregulated Waste | Compatible Storage | Labeled as HW | Volumetric Limit | Accumulation Time Limit | WCAT ID Verified | WCAT Profile and Notes |
| 249 | SAA | 35 | Y | Y | Y | Y | | | Y | Y | Y | | | |
| 247 | SAA | 35 | Y | Y | Y | Y | | | Y | Y | Y | | | |
| 6370 | SAA | 35 | Y | Y | Y | Y | | | Y | Y | Y | | | |
| 6367 | SAA | 35 | Y | Y | Y | Y | | | Y | Y | Y | | 49339 | Methylene Chloride (Ignitable, Toxic) |
| 6368 | SAA | 35 | Y | Y | Y | Y | | | Y | Y | Y | | 49204 | Nitric Acid (Corrosive) Product stored with waste |
| 2117 | SAA | 35 | Y | Y | Y | Y | | | Y | Y | Y | | | |
| 785 | SAA | 35 | Y | Y | Y | Y | | | Y | Y | Y | | | |
| 6762 | CAA | 35 | Y | Y | Y | Y | Y | | Y | Y | | Y | 48868 | Lead, Silver (Toxic) |
| 6578 | CAA | 3 | Y | Y | Y | Y | Y | | Y | Y | | Y | 49406 | Ethanol (Ignitable), Profile included analytical results for Selenium [D010], corrected with updated analytical data. |

| Area Description | | | | CAA, SAA, UOA, UWA and NMSW Items | | | | | CAA & SAA Items | | SAA Only | CAA UWA & NMSW | WCAT Information Verification and Additional Notes | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Site ID | Site Type | TA | Visited? | Container Condition | Containers Closed | Content Label | Training | Unregulated Waste | Compatible Storage | Labeled as HW | Volumetric Limit | Accumulation Time Limit | WCAT ID Verified | WCAT Profile and Notes |
| 50321 | SAA | 3 | Y | Y | Y | Y | | | Y | Y | Y | | 48029 | Catalyst (Ignitable, Toxic) |
| 6579 | SAA | 3 | Y | Y | Y | Y | | | Y | Y | Y | | | |
| 6360 | SAA | 3 | Y | Y | Y | Y | | | Y | Y | Y | | | Incorrectly included accumulation start date on less than full container. Corrected by marking out date. |
| 6359 | SAA | 3 | Y | Y | Y | Y | | | Y | Y | Y | | | |
| 6525 | SAA | 3 | Y | Y | Y | Y | | | Y | Y | Y | | | |
| 121 | SAA | 3 | Y | Y | Y | Y | | | Y | Y | Y | | | |
| 122 | SAA | 3 | Y | Y | Y | Y | | | Y | Y | Y | | 48408 | Water w/ Sulfate (Corrosive) |
| 6443 | SAA | 3 | Y | Y | Y | Y | | | Y | Y | Y | | 47012 | Acid (Toxic, Corrosive) |
| 2756 | SAA | 3 | Y | Y | Y | Y | | | Y | Y | Y | | | Product stored with waste |
| 6667 | SAA | 3 | Y | Y | Y | Y | | | Y | Y | Y | | | |
| 6528 | SAA | 3 | Y | Y | Y | Y | | | Y | Y | Y | | | |
| 1006 | SAA | 39 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |

| Area Description | | | | CAA, SAA, UOA, UWA and NMSW Items | | | | | CAA & SAA Items | | SAA Only | CAA UWA & NMSW | WCAT Information Verification and Additional Notes | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Site ID | Site Type | TA | Visited? | Container Condition | Containers Closed | Content Label | Training | Unregulated Waste | Compatible Storage | Labeled as HW | Volumetric Limit | Accumulation Time Limit | WCAT ID Verified | WCAT Profile and Notes |
| 51460 | UOA | 39 | Y | Y | Y | Y | Y | | | | | | | |
| 5984 | SAA | 40 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |
| 2317 | SAA | 40 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |
| 6478 | UWA | 40 | Y | Y | Y | Y | Y | | | | | Y | | Batteries |
| 6733 | SAA | 40 | Y | Y | Y | Y | Y | | Y | Y | Y | | | HE waste |
| 1756 | SAA | 40 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |
| 6685 | SAA | 40 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |
| 6861 | SAA | 40 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |
| 6480 | SAA | 40 | Y | Y | Y | Y | Y | | Y | Y | Y | | | Waste profile pending |
| 51640 | SWA | 16 | Y | Y | Y | Y | Y | Y | | | | | | petro contamin soil from spills |
| 50681 | SWA | 16 | Y | Y | Y | Y | Y | | Y | Y | Y | | | asbestos-related bldg demo waste |
| 460 | UWA | 16 | Y | Y | Y | Y | Y | | | | | | | |

| Area Description | | | | CAA, SAA, UOA, UWA and NMSW Items | | | | | CAA & SAA Items | | SAA Only | CAA UWA & NMSW | WCAT Information Verification and Additional Notes | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Site ID | Site Type | TA | Visited? | Container Condition | Containers Closed | Content Label | Training | Unregulated Waste | Compatible Storage | Labeled as HW | Volumetric Limit | Accumulation Time Limit | WCAT ID Verified | WCAT Profile and Notes |
| 50681 | SWA | 16 | Y | Y | Y | Y | Y | | Y | Y | | Y | | asbestos-related bldg demo; lined bin WDR submitted |
| 50663 | SWA | 16 | Y | Y | Y | Y | Y | | | | | | | mixed low-level; haz & rad w Pb, Hg, (trace He) full just 2 days ago |
| 50482 | UWA | 16 | Y | Y | Y | Y | Y | | | | | Y | | light bulbs (fluorescent & incandescent; start date 5/27/21 |
| 51600 | SWA | 16 | | | | | Y | | | | | NA | | asbestos-related demo materials; tarped; not full |
| 51420 | UWA | 16 | Y | Y | Y | Y | Y | | | | | | dates 4/1 thru 4/17/21 | bulbs & Hg-containing |
| 51761 | UOA | 16 | Y | Y | Y | Y | Y | | | | | | | Temp location - bldg demo; resourceful creation of secondary containment as interim; used oil from adjacent pumps (being decommissioned) |

| Area Description | | | | CAA, SAA, UOA, UWA and NMSW Items | | | | | CAA & SAA Items | | SAA Only | CAA UWA & NMSW | WCAT Information Verification and Additional Notes | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Site ID | Site Type | TA | Visited? | Container Condition | Containers Closed | Content Label | Training | Unregulated Waste | Compatible Storage | Labeled as HW | Volumetric Limit | Accumulation Time Limit | WCAT ID Verified | WCAT Profile and Notes |
| 50020 | SWA | 35 | Y | Y | Y | Y | Y | | | | | | | |
| 51561 | SAA | 3 | N | | | | Y | | | | | | | No access |
| 50740 | SAA | 3 | Y | | | | Y | | | | | | | No waste present during review |
| 5053 | SAA | 3 | N | | | | Y | | | | | | | No access |
| 5721 | SAA | 3 | Y | Y | Y | Y | Y | | Y | Y | Y | | Y | 42308 - Lab wide profile |
| 6348 | UWA | 3 | Y | Y | Y | Y | Y | | | | | Y | | Batteries and bulbs |
| 6440 | SAA | 3 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |
| 2761 | UWA | 3 | Y | | | | Y | | | | | | | No waste present during review |
| 2761Ex | UWA | 3 | Y | Y | Y | Y | Y | | Y | Y | Y | | | Lead for recycle |
| 5 | SAA | 3 | N | | | | | | | | | | | Closed |
| 2682 | UOA | 3 | Y | Y | Y | Y | Y | | | | | | | |
| 6441 | SAA | 3 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |
| 922 | SAA | 3 | Y | Y | Y | Y | Y | | Y | Y | Y | | | Waste profile pending |
| 852 | SAA | 3 | Y | Y | Y | Y | Y | | Y | Y | Y | | | Pyrophoric material |

| Area Description | | | | CAA, SAA, UOA, UWA and NMSW Items | | | | | CAA & SAA Items | | SAA Only | CAA UWA & NMSW | WCAT Information Verification and Additional Notes | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Site ID | Site Type | TA | Visited? | Container Condition | Containers Closed | Content Label | Training | Unregulated Waste | Compatible Storage | Labeled as HW | Volumetric Limit | Accumulation Time Limit | WCAT ID Verified | WCAT Profile and Notes |
| 1310 | SAA | 3 | Y | Y | Y | Y | Y | | Y | Y | Y | | Y | 49577 49576 |
| 51241 | SAA | 3 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |
| 51281 | CAA | 3 | Y | Y | Y | Y | Y | | Y | Y | | Y | | |
| 5207 | SAA | 3 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |
| 1297 | SWA | 3 | Y | Y | Y | Y | Y | | | | | Y | | |
| 6351 | UWA | 3 | Y | Y | Y | Y | Y | | | | | Y | | Batteries |
| 704 | SAA | 3 | N | | | | Y | | | | | | | No access |
| 703 | SAA | 3 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |
| 702 | SAA | 3 | Y | Y | Y | Y | Y | | Y | Y | Y | | Y | 46869 49888 |
| 6575 | SAA | 3 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |
| 6819 | SAA | 3 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |
| 695 | SAA | 3 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |

| Area Description | | | | CAA, SAA, UOA, UWA and NMSW Items | | | | | CAA & SAA Items | | SAA Only | CAA UWA & NMSW | WCAT Information Verification and Additional Notes | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Site ID | Site Type | TA | Visited? | Container Condition | Containers Closed | Content Label | Training | Unregulated Waste | Compatible Storage | Labeled as HW | Volumetric Limit | Accumulation Time Limit | WCAT ID Verified | WCAT Profile and Notes |
| 6350 | UWA | 3 | Y | Y | Y | Y | Y | | | | | Y | | Batteries |
| 6412 | SAA | 3 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |
| 6580 | SAA | 3 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |
| 5956 | SAA | 3 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |
| 6448 | SAA | 3 | Y | | | | Y | | | | | | | No waste present during review |
| 6425 | SAA | 3 | Y | | | | Y | | | | | | | No waste present during review |
| 1742 | SAA | 3 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |
| 50500 | SAA | 3 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |
| 1295 | SAA | 3 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |
| 1258 | SAA | 3 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |
| 1296 | SAA | 3 | Y | Y | Y | Y | Y | | Y | Y | Y | | Y | WCATS profile correct location not |

| Area Description | | | | CAA, SAA, UOA, UWA and NMSW Items | | | | | CAA & SAA Items | | SAA Only | CAA UWA & NMSW | WCAT Information Verification and Additional Notes | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Site ID | Site Type | TA | Visited? | Container Condition | Containers Closed | Content Label | Training | Unregulated Waste | Compatible Storage | Labeled as HW | Volumetric Limit | Accumulation Time Limit | WCAT ID Verified | WCAT Profile and Notes |
| 51620 | SAA | 3 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |
| 1398 | SAA | 3 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |
| 1294 | SAA | 3 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |
| 697 | SAA | 3 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |
| 698 | SAA | 3 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |
| 6424 | SAA | 3 | Y | Y | Y | Y | Y | | Y | Y | Y | | | Waste acids and product |
| 6613 | SAA | 3 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |
| 699 | SAA | 3 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |
| 2767 | SAA | 3 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |
| 701 | SAA | 3 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |
| 6576 | SAA | 3 | Y | Y | Y | Y | Y | | Y | Y | Y | | Y | 49886 |
| 994 | SAA | 3 | Y | | | | Y | | | | | | | No waste present during review |

| Area Description | | | | CAA, SAA, UOA, UWA and NMSW Items | | | | | CAA & SAA Items | | SAA Only | CAA UWA & NMSW | WCAT Information Verification and Additional Notes | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Site ID | Site Type | TA | Visited? | Container Condition | Containers Closed | Content Label | Training | Unregulated Waste | Compatible Storage | Labeled as HW | Volumetric Limit | Accumulation Time Limit | WCAT ID Verified | WCAT Profile and Notes |
| 6423 | SAA | 3 | Y | | | | Y | | | | | | | No waste present during review |
| 706 | SAA | 3 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |
| 6752 | SAA | 3 | Y | | | | Y | | | | | | | No waste present during review |
| 3630 | UOA | 3 | Y | | | | Y | | | | | | | No waste present during review |
| 6499 | UOA | 3 | Y | Y | Y | Y | Y | | | | | | | |
| 2807 | UWA | 3 | Y | Y | Y | Y | Y | Y | | | | Y | | Bulbs and material for recycling |
| 1242 | SAA | 3 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |
| 1371 | SAA | 3 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |
| 600 | SAA | 3 | Y | | | | Y | | | | | | | No waste present during review |
| 6564 | SAA | 3 | Y | Y | Y | Y | Y | | Y | Y | Y | | | Waste profile pending |
| 1372 | SAA | 3 | Y | Y | Y | Y | Y | | Y | Y | Y | | | Waste profile pending |

| Area Description | | | | CAA, SAA, UOA, UWA and NMSW Items | | | | | CAA & SAA Items | | SAA Only | CAA UWA & NMSW | WCAT Information Verification and Additional Notes | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Site ID | Site Type | TA | Visited? | Container Condition | Containers Closed | Content Label | Training | Unregulated Waste | Compatible Storage | Labeled as HW | Volumetric Limit | Accumulation Time Limit | WCAT ID Verified | WCAT Profile and Notes |
| 6562 | SAA | 3 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |
| 4435 | SAA | 3 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |
| 6352 | UWA | 3 | Y | Y | Y | Y | Y | | | | | Y | | Batteries |
| 5587 | SAA | 3 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |
| 6436 | SAA | 3 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |
| 6572 | SAA | 3 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |
| 6570 | SAA | 3 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |
| 6236 | SAA | 3 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |
| 6598 | SAA | 3 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |
| 5265 | SAA | 3 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |
| 6452 | SAA | 3 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |
| 6453 | SAA | 3 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |

| Area Description | | | | CAA, SAA, UOA, UWA and NMSW Items | | | | | CAA & SAA Items | | SAA Only | CAA UWA & NMSW | WCAT Information Verification and Additional Notes | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Site ID | Site Type | TA | Visited? | Container Condition | Containers Closed | Content Label | Training | Unregulated Waste | Compatible Storage | Labeled as HW | Volumetric Limit | Accumulation Time Limit | WCAT ID Verified | WCAT Profile and Notes |
| 6455 | SAA | 3 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |
| 6454 | SAA | 3 | Y | Y | Y | Y | Y | | Y | Y | Y | | Y | 47389 |
| 3308 | SAA | 3 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |
| 6361 | SAA | 3 | Y | Y | Y | Y | Y | | Y | Y | Y | | Y | 46827 48723 |
| 6639 | SAA | 3 | Y | | | | Y | | | | | | | No waste present during review |
| 6706 | SAA | 3 | Y | | | | Y | | | | | | | No waste present during review |
| 6349 | UWA | 3 | Y | Y | Y | Y | Y | | | | | Y | | Batteries |
| 6755 | SAA | 3 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |
| 6724 | SAA | 3 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |
| 1331 | SAA | 3 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |
| 6408 | SAA | 3 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |
| 6409 | SAA | 3 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |

| Area Description | | | | CAA, SAA, UOA, UWA and NMSW Items | | | | | CAA & SAA Items | | SAA Only | CAA UWA & NMSW | WCAT Information Verification and Additional Notes | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Site ID | Site Type | TA | Visited? | Container Condition | Containers Closed | Content Label | Training | Unregulated Waste | Compatible Storage | Labeled as HW | Volumetric Limit | Accumulation Time Limit | WCAT ID Verified | WCAT Profile and Notes |
| 1293 | SAA | 3 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |
| 6394 | SAA | 3 | Y | Y | Y | Y | Y | | Y | Y | Y | | Y | 49511 |
| 6577 | SAA | 3 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |
| 6003 | SAA | 3 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |
| 6410 | SAA | 3 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |
| 5988 | SAA | 3 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |
| 5957 | SAA | 3 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |
| 1520 | SAA | 3 | Y | Y | Y | Y | | | Y | Y | Y | | | |
| 292 | SAA | 3 | Y | | | | | | | | | | | No waste present during review |
| 6390 | SAA | 3 | Y | Y | Y | Y | | | Y | Y | Y | | | |
| 1482 | SAA | 3 | Y | Y | Y | Y | | | Y | Y | Y | | | |
| 6391 | SAA | 3 | Y | Y | Y | Y | | | Y | Y | Y | | | |

| Area Description | | | | CAA, SAA, UOA, UWA and NMSW Items | | | | | CAA & SAA Items | | SAA Only | CAA UWA & NMSW | WCAT Information Verification and Additional Notes | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Site ID | Site Type | TA | Visited? | Container Condition | Containers Closed | Content Label | Training | Unregulated Waste | Compatible Storage | Labeled as HW | Volumetric Limit | Accumulation Time Limit | WCAT ID Verified | WCAT Profile and Notes |
| 6392 | SAA | 3 | Y | Y | Y | Y | | | Y | Y | Y | | | |
| 51740 | SAA | 3 | Y | Y | Y | Y | | | Y | Y | Y | | | |
| 5034 | CAA | 3 | Y | Y | Y | Y | Y | | Y | Y | Y | Y | | Waste readied for shipment |
| 2268 | CAA | 3 | Y | Y | Y | Y | Y | | Y | Y | Y | Y | 47464 | Mixed Low Level |
| 2949 | UOA | 3 | Y | Y | Y | Y | | | | | | | | Included Glycols |
| 2937 | UOA | 3 | Y | Y | Y | Y | | | | | | | | Temporarily located outdoors in clamshell due to construction |
| 1737 | UWA | 3 | Y | Y | Y | Y | | | | | | Y | | Batteries, Bulbs |
| 6729 | SAA | 3 | Y | Y | Y | Y | | | Y | Y | Y | | | |
| 255 | SAA | 3 | Y | Y | Y | Y | | | Y | Y | Y | | | |
| 6719 | SAA | 3 | Y | | | | | | | | | | | No waste present during review |
| 1909 | SAA | 3 | Y | Y | Y | Y | | | Y | Y | Y | Y | | Batteries, Bulbs |

| Area Description | | | | CAA, SAA, UOA, UWA and NMSW Items | | | | | CAA & SAA Items | | SAA Only | CAA UWA & NMSW | WCAT Information Verification and Additional Notes | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Site ID | Site Type | TA | Visited? | Container Condition | Containers Closed | Content Label | Training | Unregulated Waste | Compatible Storage | Labeled as HW | Volumetric Limit | Accumulation Time Limit | WCAT ID Verified | WCAT Profile and Notes |
| 6632 | SAA | 3 | Y | Y | Y | Y | | | Y | Y | Y | | | |
| 6691 | SAA | 3 | Y | Y | Y | Y | | | Y | Y | Y | | | |
| 162 | SAA | 3 | Y | Y | Y | Y | | | Y | Y | Y | | | |
| 6553 | SAA | 3 | Y | Y | Y | Y | | | Y | Y | Y | | | |
| 6285 | SAA | 3 | Y | | | | | | | | | | | No waste present during review |
| 6479 | SAA | 3 | Y | | | | | | | | | | | No waste present during review |
| 3197 | SAA | 3 | N | | | | | | | | | | | |
| 353 | SAA | 3 | N | | | | | | | | | | | |
| 6555 | SAA | 3 | N | | | | | | | | | | | |
| 51741 | SAA | 3 | N | | | | | | | | | | | |
| 6720 | SAA | 3 | N | | | | | | | | | | | |

| Area Description | | | | CAA, SAA, UOA, UWA and NMSW Items | | | | | CAA & SAA Items | | SAA Only | CAA UWA & NMSW | WCAT Information Verification and Additional Notes | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Site ID | Site Type | TA | Visited? | Container Condition | Containers Closed | Content Label | Training | Unregulated Waste | Compatible Storage | Labeled as HW | Volumetric Limit | Accumulation Time Limit | WCAT ID Verified | WCAT Profile and Notes |
| 2020 | SAA | 3 | N | | | | | | | | | | | |
| 50020 | SWA | 35 | Y | Y | Y | Y | Y | | | | | | | 2 petro-55-gal drums-4 others - pending analysis |
| 984 | SAA | 46 | N | | | | | | | | | | | No waste stored during review |
| 6005 | UWA | 46 | Y | Y | Y | Y | | | | | | Y | | Batteries |
| 2351 | SAA | 46 | Y | Y | Y | Y | | | Y | Y | Y | | 46395 | Barium Chloride (Toxic) |
| 1664 | SAA | 46 | Y | Y | Y | Y | | | Y | Y | Y | | | |
| 1665 | SAA | 46 | Y | Y | Y | Y | | | Y | Y | Y | | | |
| 6321 | SAA | 46 | Y | Y | Y | Y | | | Y | Y | Y | | | |
| 2743 | SAA | 46 | Y | Y | Y | Y | | | Y | Y | Y | | | |
| 507060 | SAA | 46 | Y | Y | Y | Y | | | Y | Y | Y | | | |
| 6267 | SAA | 46 | Y | Y | Y | Y | | | Y | Y | Y | | | |

| Area Description | | | | CAA, SAA, UOA, UWA and NMSW Items | | | | | CAA & SAA Items | | SAA Only | CAA UWA & NMSW | WCAT Information Verification and Additional Notes | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Site ID | Site Type | TA | Visited? | Container Condition | Containers Closed | Content Label | Training | Unregulated Waste | Compatible Storage | Labeled as HW | Volumetric Limit | Accumulation Time Limit | WCAT ID Verified | WCAT Profile and Notes |
| 3178 | SAA | 46 | Y | Y | Y | Y | | | Y | Y | Y | | 49425 | IPA,. Acetone (Ignitable) |
| 3489 | SAA | 46 | Y | Y | Y | Y | | | Y | Y | Y | | | |
| 1338 | SAA | 46 | Y | Y | Y | Y | | | Y | Y | Y | | | |
| 6398 | SAA | 46 | Y | Y | Y | Y | | | Y | Y | Y | | | |
| 6397 | SAA | 46 | Y | Y | Y | Y | | | Y | Y | Y | | | |
| 1939 | SAA | 46 | Y | Y | Y | Y | | | Y | Y | Y | | | |
| 1670 | SAA | 46 | Y | Y | Y | Y | | | Y | Y | Y | | | |
| 2374 | UWA | 46 | Y | Y | Y | Y | | | | | | Y | | Batteries, Bulbs |

| 6/25/21 | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Area Description | | | | CAA, SAA, UOA, UWA and NMSW Items | | | | | CAA & SAA Items | | SAA Only | CAA UWA & NMSW | WCAT Information Verification and Additional Notes | | |
| Site ID | Site Type | TA | Visited? | Container Condition | Containers Closed | Content Label | Training | Unregulated Waste | Compatible Storage | Labeled as HW | Volumetric Limit | Accumulation Time Limit | WCAT ID Verified | WCAT Profile and Notes | |
| 5898 | SAA | 9 | Y | Y | Y | Y | Y | | Y | Y | Y | | profile pending | Glycol product stored with waste | |
| 1031 | SAA | 9 | Y | Y | Y | Y | Y | | Y | Y | Y | | | | |
| 3112 | SAA | 9 | Y | Y | Y | Y | Y | | Y | Y | Y | | 45948 | PETN Acetone (Flammable). Area included 2, 55-gal drums, volumetric limits could be exceeded. | |
| 407 | SAA | 9 | Y | Y | Y | Y | Y | | Y | Y | Y | | 48704 | THF (ignitable). Plastic secondary containment unit noted with a fracture. | |
| 6257 | SAA | 9 | Y | Y | Y | Y | Y | | Y | Y | Y | | 48704 | THF (ignitable). | |
| 4214 | SAA | 9 | Y | Y | Y | Y | Y | | Y | Y | Y | | | | |

| Area Description | | | | CAA, SAA, UOA, UWA and NMSW Items | | | | | CAA & SAA Items | | SAA Only | CAA UWA & NMSW | WCAT Information Verification and Additional Notes | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Site ID | Site Type | TA | Visited? | Container Condition | Containers Closed | Content Label | Training | Unregulated Waste | Compatible Storage | Labeled as HW | Volumetric Limit | Accumulation Time Limit | WCAT ID Verified | WCAT Profile and Notes |
| 428 | SAA | 9 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |
| 6372 | SAA | 9 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |
| 6371 | SAA | 9 | Y | Y | Y | Y | Y | | Y | Y | Y | | | Used oil container stored on top of container 84614150 left residue. |
| 1032 | SAA | 9 | Y | Y | Y | N | Y | | Y | Y | Y | | 41471 | 3, 5-gal containers with no contents on label |
| 920 | SAA | 9 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |
| 6652 | UWA | 9 | Y | Y | Y | Y | | | | | | Y | | Aerosol Cans |
| 6511 | SAA | 9 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |
| 6627 | UWA | 22 | Y | Y | Y | Y | | | | | | Y | | Batteries |
| 50240 | SAA | 22 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |
| 51801 | CAA | 22 | Y | Y | Y | Y | Y | | Y | Y | Y | Y | 49942 | Spent Ferric Chlorid (Corrosive, Toxic) |

| Area Description | | | | CAA, SAA, UOA, UWA and NMSW Items | | | | | CAA & SAA Items | | SAA Only | CAA UWA & NMSW | WCAT Information Verification and Additional Notes | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Site ID | Site Type | TA | Visited? | Container Condition | Containers Closed | Content Label | Training | Unregulated Waste | Compatible Storage | Labeled as HW | Volumetric Limit | Accumulation Time Limit | WCAT ID Verified | WCAT Profile and Notes |
| 50800 | UWA | 8 | Y | Y | Y | Y | | | | | | Y | | Batteries |
| 6761 | UWA | 8 | Y | Y | Y | Y | | | | | | Y | | Aerosol Cans |
| 6675 | UWA | 8 | Y | Y | Y | Y | | | | | | Y | | Aerosol Cans, Bulbs |
| 6866 | SWA | 8 | Y | Y | Y | Y | | Y | | | | Y | | Developer (pH 11) |
| 4910 | UWA | 9 | Y | Y | Y | Y | | | | | | Y | | Aerosol Cans, Batteries, Bulbs |
| 4901 | UOA | 9 | Y | Y | Y | Y | | | | | | | | 385-Gal Chemtainer |
| 51440 | SWA | 9 | Y | Y | Y | Y | | | | | | Y | | Asbestos |
| 6645 | UWA | 9 | Y | Y | Y | Y | | | | | | Y | | Batteries |
| 51701 | CAA | 9 | Y | Y | Y | Y | Y | | Y | Y | Y | Y | 49079 | HE Contaminated Equipment |
| 430 | SAA | 9 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |
| 51160 | SAA | 9 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |
| 907 | SAA | 9 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |

| Area Description | | | | CAA, SAA, UOA, UWA and NMSW Items | | | | | CAA & SAA Items | | SAA Only | CAA UWA & NMSW | WCAT Information Verification and Additional Notes | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Site ID | Site Type | TA | Visited? | Container Condition | Containers Closed | Content Label | Training | Unregulated Waste | Compatible Storage | Labeled as HW | Volumetric Limit | Accumulation Time Limit | WCAT ID Verified | WCAT Profile and Notes |
| 6512 | SAA | 9 | Y | | | | | | | | | | | Empty |
| 2640 | UOA | 16 | Y | Y | Y | Y | | | | | | | | |
| 6652 | CAA | 16 | Y | Y | Y | Y | Y | | Y | Y | Y | Y | W864356 49952 | Chromium (Toxic) |
| 6614 | SWA | 16 | Y | Y | Y | Y | | | | | | Y | | Spill cleanup of Glycol impacted soil |
| 2334 | UWA | 16 | Y | Y | Y | Y | | | | | | Y | | Aerosol Cans, Bulbs |
| 6062 | UWA | 16 | Y | Y | Y | Y | | | | | | Y | | Batteries |
| 2628 | SWA | 16 | Y | Y | Y | Y | | | | | | Y | | Ash, Sand |
| 6683 | UWA | 16 | Y | Y | Y | Y | | | | | | Y | | Aerosol Cans, Batteries |
| 2678 | UOA | 53 | Y | Y | Y | Y | Y | | | | | | | |
| 6700 | SAA | 53 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |
| 2992 | UWA | 53 | Y | | | | Y | | | | | | | No waste present during review |

| Area Description | | | | CAA, SAA, UOA, UWA and NMSW Items | | | | | CAA & SAA Items | | SAA Only | CAA UWA & NMSW | WCAT Information Verification and Additional Notes | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Site ID | Site Type | TA | Visited? | Container Condition | Containers Closed | Content Label | Training | Unregulated Waste | Compatible Storage | Labeled as HW | Volumetric Limit | Accumulation Time Limit | WCAT ID Verified | WCAT Profile and Notes |
| 5790 | CAA | 53 | Y | Y | Y | Y | Y | | Y | Y | | Y | Y | W864638<br>W864636 |
| 2556 | SAA | 48 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |
| 1888 | SAA | 48 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |
| 1457 | SAA | 48 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |
| 1572 | SAA | 48 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |
| 758 | SAA | 48 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |
| 2444 | SAA | 48 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |
| 1723 | SAA | 48 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |
| 732 | SAA | 48 | Y | | | | Y | | | | | | | No waste present during review |
| 751 | SAA | 48 | Y | | | | Y | | | | | | | No waste present during review |
| 189 | SAA | 48 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |
| 192 | SAA | 48 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |

| Area Description | | | | CAA, SAA, UOA, UWA and NMSW Items | | | | | CAA & SAA Items | | SAA Only | CAA UWA & NMSW | WCAT Information Verification and Additional Notes | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Site ID | Site Type | TA | Visited? | Container Condition | Containers Closed | Content Label | Training | Unregulated Waste | Compatible Storage | Labeled as HW | Volumetric Limit | Accumulation Time Limit | WCAT ID Verified | WCAT Profile and Notes |
| 1321 | SAA | 48 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |
| 51441 | SAA | 48 | Y | | | | Y | | | | | | | No waste present during review |
| 1316 | SAA | 48 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |
| 416 | SAA | 48 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |
| 793 | SAA | 48 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |
| 1600 | SAA | 48 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |
| 1337 | SAA | 48 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |
| 552 | SAA | 48 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |
| 3077 | SAA | 48 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |
| 3141 | SAA | 48 | N | | | | Y | | | | | | | Room contaminated no access |
| 6530 | CAA | 48 | Y | Y | Y | Y | Y | | Y | Y | | Y | | |

| Area Description | | | | CAA, SAA, UOA, UWA and NMSW Items | | | | | CAA & SAA Items | | SAA Only | CAA UWA & NMSW | WCAT Information Verification and Additional Notes | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Site ID | Site Type | TA | Visited? | Container Condition | Containers Closed | Content Label | Training | Unregulated Waste | Compatible Storage | Labeled as HW | Volumetric Limit | Accumulation Time Limit | WCAT ID Verified | WCAT Profile and Notes |
| 6004 | CAA | 48 | Y | | | | Y | | | | | | | No waste present during review |
| 3769 | UWA | 48 | Y | Y | Y | Y | Y | | | | | Y | | Mercury devices |
| 3767 | SWA | 48 | Y | Y | Y | Y | Y | | | | | Y | | Petroleum contaminated soil |
| 6778 | SAA | 48 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |
| 6779 | SAA | 48 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |
| 3290 | UOA | 48 | Y | Y | Y | Y | Y | | | | | | | |
| 3447 | SAA | 48 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |
| 3448 | SAA | 48 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |

| 6/25/21 | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Area Description | | | | CAA, SAA, UOA, UWA and NMSW Items | | | | | CAA & SAA Items | | SAA Only | CAA UWA & NMSW | WCAT Information Verification and Additional Notes | | |
| Site ID | Site Type | TA | Visited? | Container Condition | Containers Closed | Content Label | Training | Unregulated Waste | Compatible Storage | Labeled as HW | Volumetric Limit | Accumulation Time Limit | WCAT ID Verified | WCAT Profile and Notes | |
| 5757 | UWA | 64 | Y | Y | Y | Y | Y | | | | | Y | | | |
| 50400 | SAA | 51 | Y | Y | Y | N | Y | | Y | Y | Y | | | Unknown hazardous waste in black bag. | |
| 3292 | UWA | 60 | Y | Y | Y | Y | Y | | | | | Y | | | |
| 5333 | UWA | 60 | Y | | | | Y | | | | | | | No waste present during review | |
| 2385 | SAA | 3 | Y | Y | Y | Y | Y | | Y | Y | Y | | | | |
| 6201 | UWA | 3 | Y | Y | Y | Y | Y | | | | | Y | | Batteries | |
| 139 | SAA | 3 | Y | Y | Y | Y | Y | | Y | Y | Y | | | | |
| 6850 | UWA | 72 | Y | Y | Y | Y | Y | | | | | Y | | Batteries | |
| 5036 | UWA | 72 | Y | Y | Y | Y | Y | | | | | Y | | Aerosol cans | |
| 6338 | SAA | 72 | Y | Y | Y | Y | Y | | | | | Y | | | |

| 6/28/21 | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Area Description | | | | CAA, SAA, UOA, UWA and NMSW Items | | | | | CAA & SAA Items | | SAA Only | CAA UWA & NMSW | WCAT Information Verification and Additional Notes | |
| Site ID | Site Type | TA | Visited? | Container Condition | Containers Closed | Content Label | Training | Unregulated Waste | Compatible Storage | Labeled as HW | Volumetric Limit | Accumulation Time Limit | WCAT ID Verified | WCAT Profile and Notes |
| 2628 | SWA | 16 | Y | Y | Y | Y | Y | | | | | Y | | |
| 6683 | UWA | 16 | Y | Y | Y | Y | Y | | | | | Y | | |
| 4911 | UWA | 16 | Y | Y | Y | Y | Y | | | | | Y | | Aerosol cans and batteries |
| 6705 | SAA | 16 | N | | | | Y | | | | | | | Access restricted to Q cleared personnel |
| 1484 | SAA | 22 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |
| 6427 | SAA | 22 | Y | Y | Y | Y | Y | | Y | Y | Y | | | Profile 49868 pending |

| 6/28/21 | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Area Description | | | | CAA, SAA, UOA, UWA and NMSW Items | | | | | CAA & SAA Items | | SAA Only | CAA UWA & NMSW | WCAT Information Verification and Additional Notes | |
| Site ID | Site Type | TA | Visited? | Container Condition | Containers Closed | Content Label | Training | Unregulated Waste | Compatible Storage | Labeled as HW | Volumetric Limit | Accumulation Time Limit | WCAT ID Verified | WCAT Profile and Notes |
| 6603 | UWA | 3 | Y | Y | Y | Y | Y | | | | | Y | | Batteries |
| 3272 | SAA | 3 | Y | | | | Y | | | | | | | No waste present during review |
| 5413 | CAA | 3 | Y | Y | Y | Y | Y | | Y | Y | | Y | | |
| 4905 | UWA | 3 | Y | Y | Y | Y | Y | | Y | Y | | Y | | |
| 6179 | UOA | 3 | Y | Y | Y | Y | Y | | | | | | | |
| 6165 | UWA | 3 | Y | Y | Y | Y | Y | | | | | Y | | |
| 6110 | UOA | 60 | Y | Y | Y | Y | Y | | | | | | | |
| 3291 | UWA | 60 | Y | Y | Y | Y | Y | | | | | Y | | Aerosol cans |
| 6083 | SAA | 60 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |
| 2668 | UOA | 60 | Y | Y | Y | Y | Y | | | | | | | Drum label issues need to be addressed |

| Area Description | | | | CAA, SAA, UOA, UWA and NMSW Items | | | | | CAA & SAA Items | | SAA Only | CAA UWA & NMSW | WCAT Information Verification and Additional Notes | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Site ID | Site Type | TA | Visited? | Container Condition | Containers Closed | Content Label | Training | Unregulated Waste | Compatible Storage | Labeled as HW | Volumetric Limit | Accumulation Time Limit | WCAT ID Verified | WCAT Profile and Notes |
| 2831 | SWA | 60 | Y | Y | Y | Y | Y | | | | | | | Drum label issues need to be addressed |
| 2667 | UOA | 60 | Y | Y | Y | Y | Y | | | | | | | Drum label issues need to be addressed |
| 6081 | SAA | 60 | Y | Y | Y | Y | Y | | Y | Y | Y | | | |
| 6853 | UWA | 60 | Y | Y | Y | Y | Y | | | | | Y | | |
| 5814 | SWA | 60 | Y | Y | Y | Y | Y | | | | | Y | | Drum label issues need to be addressed |
| 3067 | UOA | 60 | Y | Y | Y | Y | Y | | | | | | | |
| 3658 | UWA | 60 | Y | Y | Y | Y | Y | | | | | Y | | |

## E.1.3 INTERIM STATUS TREATMENT FACILITIES

### E.1.3.1 TA-16 Interim Status Unit

| Fed/ State Title | Language | Compliance (Y/N/NA) | Compliance Notes |
|---|---|---|---|
| **HW.105. General** | | | |
| HW.105.1.US. | All permitted TSDFs are required to meet the hazardous waste management requirements outlined in their permit (40 CFR 270.10 and 270.30 through 270.33). | NA | Interim status unit does not have permit. |
| HW.105.2.US. | All TSDFs that have interim status are required to meet the hazardous waste management requirements of 40 CFR 265 and apply for a Part B permit (40 CFR 270.71 and 270.73(g)). | Y | Review Part B Permit Application for Interim Status Units |
| HW.105.3.US. | All TSDFs that store, treat, transport, or handle hazardous wastes must obtain an USEPA identification number (40 CFR 264.11 and 265.11). | Y | LANL has obtained EPA ID Number |
| HW.105.4.US. | TSDFs must control entry to the active portion of the TSDF (40 CFR 264.14 and 265.14). | Y | Verified that entry is controlled during on-site review |
| HW.105.5.US. | All TSDFs must be designed, constructed, maintained, and operated to minimize the possibility of a fire, explosion, or any unplanned release of hazardous waste (40 CFR 264.30 through 264.37 and 265.30 through 265.37). | Y | Verified design, construction, maintenance, and operation procedures during on-site review. |
| HW.105.6.US. | All TSDFs must take precautions to prevent accidental ignition or reaction of ignitable or reactive wastes (40 CFR 264.17(a) and 265.17(a)). | Y | Verified design, construction, maintenance, and operation procedures during on-site review. |
| HW.105.7.US. | When TSDFs are required by specific treatment, storage, or disposal sections to prevent reactions from ignitable, reactive, or incompatible wastes, specific standards must be met (40 CFR 264.17(b) and 265.17(b)). | Y | Verify design, construction, maintenance, and operation procedures during on-site review. |
| HW.105.8.US. | A detailed chemical and physical analysis of a representative sample, as specified in the **waste analysis plan**, of the hazardous waste must be obtained prior to treatment, storage or disposal (40 CFR 264.13(a) and 265.13(a)). | Y | Substantiated all wastes treated are generated at LANL and are accompanied by a waste profile that is verified prior to treatment. |

| Fed/ State Title | Language | Compliance (Y/N/NA) | Compliance Notes |
|---|---|---|---|
| HW.105.9.US. | Each TSDF must have an emergency coordinator on the TSDF premises or on call at all times (40 CFR 264.55 and 265.55). | Y | Verified **contingency** plan identifies emergency coordinator. |
| HW.105.10.US. | TSDF emergency coordinators must follow certain emergency procedures whenever there is an imminent or actual emergency situation (40 CFR 264.56(a) through 264.56(h) and 265.56(a) through 265.56(h)) [Revised July 2006]. | Y | Reviewed **contingency plan** ensuring it contained emergency procedures. |
| HW.105.11.US. | TSDFs are required to take specific actions for a response to an immediate threat to human health, public safety, property, or the environmental from known or suspected presence of military munitions, other explosive material, or an explosion device (40 CFR 264.1(g)(8)(i)(D), 264.1(g)(8)(ii), and 264.1(g)(8)(iv); 265.1(c)(11)(i), 265.1(c)(11)(ii), and 265.1(c)(11)(iv) [Added July 2002]. | NA | |
| **HW.110. Personnel Training** | | | |
| HW.110.1.US. | All TSDF personnel who handle hazardous waste must meet certain training requirements (40 CFR 264.16(a) through 264.16(c) and 265.16(a) through 265.16(c)) [Revised July 2006]. | Y | Verified training of representative sample of employees at interim status units. |
| HW.110.2.US. | **Training records** must be maintained for all TSDF staff that manages hazardous waste (40 CFR 264.16(d)(3), 264.16(d)(4), 264.16(e), 265.16(d)(3), 265.16(d)(4), and 265.16(e)) [Revised October 2003]. | Y | Verify training of representative sample of employees at interim status units. |
| **HW.145. Documentation Requirements** | | | |
| HW.145.1.US. | TSDFs that treat, store, or dispose of hazardous wastes must develop and follow a **written waste analysis plan** (40 CFR 264.13(b), 264.13(c), 265.13(b), and 265.13(c)). HW.145.2.US. TSDFs must conduct inspections and have a formal written inspection schedule and a log of inspection results (40 CFR 264.15 and 265.15) [Revised July 2006; Revised January 2017]. | Y | Verified inspections and logged results during on-site review |
| HW.145.3.US. | TSDFs must have a **contingency plan** (40 CFR 264.50 through 264.54 and 265.50 through 265.54) [Revised July 2006, Revised July 2010]. | Y | |
| HW.145.4.US. | TSDF operators must record the time, date, and details of any incident that requires implementing the contingency plan (40 CFR 264.56(i), 264.77(a), 265.56(i), and 265.77(a)) [Revised January 2005; Revised July 2006]. | NA | |

| Fed/ State Title | Language | Compliance (Y/N/NA) | Compliance Notes |
|---|---|---|---|
| HW.145.5.US. | TSDF operators must keep **written operating records** at the facility (40 CFR 264.70, 264.73 through 264.74 and 265.70, 265.73 through 265.74) [Revised January 2003; Revised July 2006]. | Y | Verified operating records that are kept at facility. |
| HW.145.6.US. | TSDFs must prepare and submit a single copy of a **biennial report** to the USEPA Regional Administrator by March 1 of each even numbered year (40 CFR 264.75 and 265.75) [Revised January 2017]. | Y | Biennial Report submitted February 26, 2020 for 2019 (EPC-DO-20-050) (LANL 2020a). |
| HW.145.7.US. | TSDFs must have a **written closure plan** for each TSDF (40 CFR 264.110(a), 264.110(c), 264.112(a) through 264.112(c), 265.110(a), 265.110(c), and 265.112(a) through 265.112(c)) [Revised January 1999]. | Y | Review closure plan(s) included in Part B Permit Application. |
| HW.145.8.US. | TSDFs with hazardous waste disposal units are required to have a **written post-closure plan** (40 CFR264.110(b), 264.118, 264.110(b), and 265.118(a) through 265.118(d)) [Revised January 1999]. | NA | No disposal. |
| HW.145.9.US. | TSDFs that receive waste from offsite sources must comply with manifest requirements (40 CFR 264.70, 264.71, 265.70, and 265.71) [Revised February 1995; Revised April 2005; Revised April 2010; Revised April 2014; Revised January 2017]. | NA | |
| HW.145.10.US. | TSDFs receiving hazardous waste from a foreign source must notify the Regional Administrator (40 CFR 264.12(a) and 265.12(a)) [Revised April 2010; Revised January 2017]. | NA | |
| HW.145.11.US. | TSDFs that receive waste from offsite sources are required to attempt to resolve manifest discrepancies when they occur (40 CFR 264.72 and 265.72) [Revised April 2005, Revised July 2010]. | NA | |
| HW.145.12.US. | Reports must be submitted to the USEPA when a TSDF accepts an unmanifested waste shipment (40 CFR 264.76 and 265.76) [Revised April 2005]. | NA | |
| HW.145.13.US. | TSDFs that initiate a shipment of hazardous waste to a different, offsite TSDF must meet certain Generator standards (40 CFR 262.10(f)). | Y | Manifests reviewed. |

| Fed/ State Title | Language | Compliance (Y/N/NA) | Compliance Notes |
|---|---|---|---|
| HW.145.14.US. | **Records** must be maintained with job descriptions and descriptions of training for all TSDF staff that manages hazardous waste (40 CFR 264.16(d)(1), 264.16(d)(2), 265.16(d)(1) and 265.16(d)(2)) [Added October 2003]. | Y | Verified records while completing on-site review. |
| **HW.220. General** | | | |
| HW.220.1.US. | Interim status TSDFs are allowed to conduct open burn/open detonation (OB/OD) of waste explosives under specific conditions (40 CFR 265.382). | Y | Verified that all OB/OD is conducted at a minimum distance from property line. |
| HW.220.2.US. | Checklist item deleted [Deleted January 1999]. | NA | |
| HW.220.3.US. | Interim status TSDFs operating surface impoundments, landfills, or land treatment facilities used to manage hazardous waste are required to implement a groundwater monitoring program that meets specific standards (40 CFR 265.90(a) through 265.90(e), and 265.91) [Revised January 1999; Revised July 2006]. | NA | Open burn/open detonation (OB/OD) units do not require ground water monitoring. |
| HW.220.4.US. | Interim status TSDFs must gather and analyze samples from the groundwater monitoring system according to specific parameters (40 CFR 265.90(c), 265.90(e), 265.92, 265.93(b) through 265.93(d)) [Revised January 1999; Revised July 2006]. | NA | Open burn/open detonation (OB/OD) units do not require ground water monitoring. |
| HW.220.5.US. | Interim status TSDFs must have an outline of a more extensive groundwater quality assessment program and implement that program according to specific parameters when contamination is detected (40 CFR 265.77(b), 265.90(a) through 265.90(c), 265.90(e), 265.93(a)) [Revised January 1999; Citation Revised January 2005]. | NA | Open burn/open detonation (OB/OD) units do not require ground water monitoring. |
| HW.220.8.US. | The interim status TSDF is required to meet specific reporting and recordkeeping requirements except when the groundwater is being monitored to satisfy a groundwater assessment program resulting from downgradient well contamination (40 CFR 265.90(a) through 265.90(c), 265.90(e), and 265.94(a)) [Revised January 1999]. | NA | |
| HW.220.9.US. | When the groundwater is being monitored to satisfy a groundwater assessment program resulting from downgradient well contamination, specific records have to be maintained and reports submitted (40 CFR 265.90(a) through 265.90(c), 265.90(e), and 265.94(b)) [Revised January 1999]. | NA | |

| Fed/ State Title | Language | Compliance (Y/N/NA) | Compliance Notes |
|---|---|---|---|
| **HW.250. Thermal Treatment** | | | |
| HW.250.1.US. | TSDFs with interim status thermal treatment facilities must meet specific requirements (40 CFR 265.370, 265.373, 265.375, 265.381, and 265.382). | Y | Verified that treatment process is approved through Part B permit application and is conducted at required distance from property line. |
| HW.250.2.US. | Interim status thermal treatment facilities must be certified if they treat certain wastes (40 CFR 265.383). | NA | Does not treat waste with codes F020 through F023, F026, or F027 |
| HW.250.3.US. | Operators of interim status thermal treatment facilities must conduct **monitoring and inspections** while thermally treating hazardous waste (40 CFR 265.377). | Y | Verified operating records, including inspections conducted while operating an OB/OD unit. |

### E.1.3.2 TA-36 Interim Status Unit

| Fed/ State Title | Language | Compliance (Y/N/NA) | Compliance Notes |
|---|---|---|---|
| | **HW.105. General** | | |
| HW.105.1.US. | All permitted TSDFs are required to meet the hazardous waste management requirements outlined in their permit (40 CFR 270.10 and 270.30 through 270.33). | NA | Interim status unit does not have permit. |
| HW.105.2.US. | All TSDFs that have interim status are required to meet the hazardous waste management requirements of 40 CFR 265 and apply for a Part B permit (40 CFR 270.71 and 270.73(g)). | Y | Reviewed Part B Permit Application for TA-16 |
| HW.105.3.US. | All TSDFs that store, treat, transport, or handle hazardous wastes must obtain an USEPA identification number (40 CFR 264.11 and 265.11). | Y | LANL has obtained EPA ID Number |
| HW.105.4.US. | TSDFs must control entry to the active portion of the TSDF (40 CFR 264.14 and 265.14). | Y | Verified that no unauthorized entry is permitted based on security equipment installed at TA-36. |
| HW.105.5.US. | All TSDFs must be designed, constructed, maintained, and operated to minimize the possibility of a fire, explosion, or any unplanned release of hazardous waste (40 CFR 264.30 through 264.37 and 265.30 through 265.37). | Y | Verified design, construction, maintenance, and operation procedures during on-site walkthrough. |
| HW.105.6.US. | All TSDFs must take precautions to prevent accidental ignition or reaction of ignitable or reactive wastes (40 CFR 264.17(a) and 265.17(a)). | Y | Verified design, construction, maintenance, and operation procedures during on-site walkthrough. |
| HW.105.7.US. | When TSDFs are required by specific treatment, storage, or disposal sections to prevent reactions from ignitable, reactive, or incompatible wastes, specific standards must be met (40 CFR 264.17(b) and 265.17(b)). | Y | Verified design, construction, maintenance, and operation procedures during on-site walkthrough. |
| HW.105.8.US. | A detailed chemical and physical analysis of a representative sample, as specified in the waste analysis plan, of the hazardous waste must be obtained prior to treatment, storage or disposal (40 CFR 264.13(a) and 265.13(a)). | Y | All wastes treated are generated at LANL and are accompanied by a waste profile that is verified prior to treatment. |

| Fed/ State Title | Language | Compliance (Y/N/NA) | Compliance Notes |
|---|---|---|---|
| HW.105.9.US. | Each TSDF must have an emergency coordinator on the TSDF premises or on call at all times (40 CFR 264.55 and 265.55). | Y | Contingency plan identifies emergency coordinator. |
| HW.105.10.US. | TSDF emergency coordinators must follow certain emergency procedures whenever there is an imminent or actual emergency situation (40 CFR 264.56(a) through 264.56(h) and 265.56(a) through 265.56(h)) [Revised July 2006]. | Y | Reviewed contingency plan to ensure it contains emergency procedures. |
| HW.105.11.US. | TSDFs are required to take specific actions for a response to an immediate threat to human health, public safety, property, or the environmental from known or suspected presence of military munitions, other explosive material, or an explosion device (40 CFR 264.1(g)(8)(i)(D), 264.1(g)(8)(ii), and 264.1(g)(8)(iv); 265.1(c)(11)(i), 265.1(c)(11)(ii), and 265.1(c)(11)(iv) [Added July 2002]. | NA | No recent record requiring implementation of contingency plan. |
| **HW.110. Personnel Training** | | | |
| HW.110.1.US. | All TSDF personnel who handle hazardous waste must meet certain training requirements (40 CFR 264.16(a) through 264.16(c) and 265.16(a) through 265.16(c)) [Revised July 2006]. | Y | Verified training of representative sample of employees at interim status unit. |
| HW.110.2.US. | Training records must be maintained for all TSDF staff that manages hazardous waste (40 CFR 264.16(d)(3), 264.16(d)(4), 264.16(e), 265.16(d)(3), 265.16(d)(4), and 265.16(e)) [Revised October 2003]. | Y | Verified training of representative sample of employees at interim status units. |
| **HW.145. Documentation Requirements** | | | |
| HW.145.1.US. | TSDFs that treat, store, or dispose of hazardous wastes must develop and follow a **written waste analysis plan** (40 CFR 264.13(b), 264.13(c), 265.13(b), and 265.13(c)). HW.145.2.US. TSDFs must conduct inspections and have a formal written inspection schedule and a log of inspection results (40 CFR 264.15 and 265.15) [Revised July 2006; Revised January 2017]. | Y | Follows LANL's HW permit waste analysis plan. |

| Fed/ State Title | Language | Compliance (Y/N/NA) | Compliance Notes |
|---|---|---|---|
| HW.145.3.US. | TSDFs must have a **contingency plan** (40 CFR 264.50 through 264.54 and 265.50 through 265.54) [Revised July 2006, Revised July 2010]. | Y | Reviewed contingency plan while doing on-site walkthrough. |
| HW.145.4.US. | TSDF operators must record the time, date, and details of any incident that requires implementing the contingency plan (40 CFR 264.56(i), 264.77(a), 265.56(i), and 265.77(a)) [Revised January 2005; Revised July 2006]. | NA | No recent record requiring implementation of contingency plan. |
| HW.145.5.US. | TSDF operators must keep **written operating records** at the facility (40 CFR 264.70, 264.73 through 264.74 and 265.70, 265.73 through 265.74) [Revised January 2003; Revised July 2006]. | Y | Verified and reviewed operating records that were kept at facility. |
| HW.145.6.US. | TSDFs must prepare and submit a single copy of a **biennial report** to the USEPA Regional Administrator by March 1 of each even numbered year (40 CFR 264.75 and 265.75) [Revised January 2017]. | Y | Biennial Report submitted February 26, 2020 for 2019 (EPC-DO-20-050) (LANL 2020a). |
| HW.145.7.US. | TSDFs must have a **written closure plan** for each TSDF (40 CFR 264.110(a), 264.110(c), 264.112(a) through 264.112(c), 265.110(a), 265.110(c), and 265.112(a) through 265.112(c)) [Revised January 1999]. | Y | Reviewed closure plan included in Part B Permit Application. |
| HW.145.8.US. | TSDFs with hazardous waste disposal units are required to have a **written post-closure plan** (40 CFR264.110(b), 264.118, 264.110(b), and 265.118(a) through 265.118(d)) [Revised January 1999]. | NA | No disposal. |
| HW.145.9.US. | TSDFs that receive waste from offsite sources must comply with manifest requirements (40 CFR 264.70, 264.71, 265.70, and 265.71) [Revised February 1995; Revised April 2005; Revised April 2010; Revised April 2014; Revised January 2017]. | NA | Only receive waste generated at LANL. |
| HW.145.10.US. | TSDFs receiving hazardous waste from a foreign source must notify the Regional Administrator (40 CFR 264.12(a) and 265.12(a)) [Revised April 2010; Revised January 2017]. | NA | Only receive waste generated at LANL. |

| Fed/ State Title | Language | Compliance (Y/N/NA) | Compliance Notes |
|---|---|---|---|
| HW.145.11.US. | TSDFs that receive waste from offsite sources are required to attempt to resolve manifest discrepancies when they occur (40 CFR 264.72 and 265.72) [Revised April 2005, Revised July 2010]. | NA | Only receive waste generated at LANL. |
| HW.145.12.US. | Reports must be submitted to the USEPA when a TSDF accepts an unmanifested waste shipment (40 CFR 264.76 and 265.76) [Revised April 2005]. | NA | Only receive waste generated at LANL. |
| HW.145.13.US. | TSDFs that initiate a shipment of hazardous waste to a different, offsite TSDF must meet certain Generator standards (40 CFR 262.10(f)). | Y | Manifests reviewed. |
| HW.145.14.US. | **Records** must be maintained with job descriptions and descriptions of training for all TSDF staff that manages hazardous waste (40 CFR 264.16(d)(1), 264.16(d)(2), 265.16(d)(1) and 265.16(d)(2)) [Added October 2003]. | Y | Verified records while completing on-site walkthrough. |
| **HW.220. General** | | | |
| HW.220.1.US. | Interim status TSDFs are allowed to conduct open burn/open detonation (OB/OD) of waste explosives under specific conditions (40 CFR 265.382). | Y | Verified that all OB/OD is conducted at a minimum distance from property line. |
| HW.220.2.US. | Checklist item deleted [Deleted January 1999]. | NA | |
| HW.220.3.US. | Interim status TSDFs operating surface impoundments, landfills, or land treatment facilities used to manage hazardous waste are required to implement a groundwater monitoring program that meets specific standards (40 CFR 265.90(a) through 265.90(e), and 265.91) [Revised January 1999; Revised July 2006]. | NA | Open burn/open detonation (OB/OD) units do not require ground water monitoring. |
| HW.220.4.US. | Interim status TSDFs must gather and analyze samples from the groundwater monitoring system according to specific parameters (40 CFR 265.90(c), 265.90(e), 265.92, 265.93(b) through 265.93(d)) [Revised January 1999; Revised July 2006]. | NA | Open burn/open detonation (OB/OD) units do not require groundwater monitoring. |

| Fed/ State Title | Language | Compliance (Y/N/NA) | Compliance Notes |
|---|---|---|---|
| HW.220.5.US. | Interim status TSDFs must have an outline of a more extensive groundwater quality assessment program and implement that program according to specific parameters when contamination is detected (40 CFR 265.77(b), 265.90(a) through 265.90(c), 265.90(e), 265.93(a)) [Revised January 1999; Citation Revised January 2005]. | NA | OB/OD units do not require ground water monitoring. |
| HW.220.8.US. | The interim status TSDF is required to meet specific reporting and recordkeeping requirements except when the groundwater is being monitored to satisfy a groundwater assessment program resulting from downgradient well contamination (40 CFR 265.90(a) through 265.90(c), 265.90(e), and 265.94(a)) [Revised January 1999]. | NA | OB/OD units do not require ground water monitoring. |
| HW.220.9.US. | When the groundwater is being monitored to satisfy a groundwater assessment program resulting from downgradient well contamination, specific records have to be maintained and reports submitted (40 CFR 265.90(a) through 265.90(c), 265.90(e), and 265.94(b)) [Revised January 1999]. | NA | OB/OD units do not require ground water monitoring. |
| **HW.250. Thermal Treatment** | | | |
| HW.250.1.US. | TSDFs with interim status thermal treatment facilities must meet specific requirements (40 CFR 265.370, 265.373, 265.375, 265.381, and 265.382). | Y | Verified that treatment process is approved through Part B permit application and is conducted at required distance from property line. |
| HW.250.2.US. | Interim status thermal treatment facilities must be certified if they treat certain wastes (40 CFR 265.383). | NA | Does not treat waste with codes F020 through F023, F026, or F027 |
| HW.250.3.US. | Operators of interim status thermal treatment facilities must conduct **monitoring and inspections** while thermally treating hazardous waste (40 CFR 265.377). | Y | Verified operating records, which included inspections to be conducted while operating OB/OD unit. |

### E.1.3.3 TA-39 Interim Status Unit

| Fed/ State Title | Language | Compliance (Y/N/NA) | Compliance Notes |
|---|---|---|---|
| | **HW.105. General** | | |
| HW.105.1.US. | All permitted TSDFs are required to meet the hazardous waste management requirements outlined in their permit (40 CFR 270.10 and 270.30 through 270.33). | NA | Interim status unit does not have permit. |
| HW.105.2.US. | All TSDFs that have interim status are required to meet the hazardous waste management requirements of 40 CFR 265 and apply for a Part B permit (40 CFR 270.71 and 270.73(g)). | Y | Reviewed Part B Permit Application for TA-39 |
| HW.105.3.US. | All TSDFs that store, treat, transport, or handle hazardous wastes must obtain an USEPA identification number (40 CFR 264.11 and 265.11). | Y | LANL has obtained EPA ID Number |
| HW.105.4.US. | TSDFs must control entry to the active portion of the TSDF (40 CFR 264.14 and 265.14). | Y | Verified that no unauthorized entry is permitted based on security equipment installed at TA-39 |
| HW.105.5.US. | All TSDFs must be designed, constructed, maintained, and operated to minimize the possibility of a fire, explosion, or any unplanned release of hazardous waste (40 CFR 264.30 through 264.37 and 265.30 through 265.37). | Y | Verified design, construction, maintenance, and operation procedures during on-site walkthrough. |
| HW.105.6.US. | All TSDFs must take precautions to prevent accidental ignition or reaction of ignitable or reactive wastes (40 CFR 264.17(a) and 265.17(a)). | Y | Verified design, construction, maintenance, and operation procedures during on-site walkthrough. |
| HW.105.7.US. | When TSDFs are required by specific treatment, storage, or disposal sections to prevent reactions from ignitable, reactive, or incompatible wastes, specific standards must be met (40 CFR 264.17(b) and 265.17(b)). | Y | Verified design, construction, maintenance, and operation procedures during on-site walkthrough. |
| HW.105.8.US. | A detailed chemical and physical analysis of a representative sample, as specified in the waste analysis plan, of the hazardous waste must be obtained prior to treatment, storage or disposal (40 CFR 264.13(a) and 265.13(a)). | Y | No treatment at this area since 2014. |

| Fed/ State Title | Language | Compliance (Y/N/NA) | Compliance Notes |
|---|---|---|---|
| HW.105.9.US. | Each TSDF must have an emergency coordinator on the TSDF premises or on call at all times (40 CFR 264.55 and 265.55). | Y | Contingency plan identifies emergency coordinator. |
| HW.105.10.US. | TSDF emergency coordinators must follow certain emergency procedures whenever there is an imminent or actual emergency situation (40 CFR 264.56(a) through 264.56(h) and 265.56(a) through 265.56(h)) [Revised July 2006]. | Y | Reviewed contingency plan to ensure it contains emergency procedures. |
| HW.105.11.US. | TSDFs are required to take specific actions for a response to an immediate threat to human health, public safety, property, or the environmental from known or suspected presence of military munitions, other explosive material, or an explosion device (40 CFR 264.1(g)(8)(i)(D), 264.1(g)(8)(ii), and 264.1(g)(8)(iv); 265.1(c)(11)(i), 265.1(c)(11)(ii), and 265.1(c)(11)(iv) [Added July 2002]. | NA | No recent record requiring implementation of contingency plan. |
| **HW.110. Personnel Training** | | | |
| HW.110.1.US. | All TSDF personnel who handle hazardous waste must meet certain training requirements (40 CFR 264.16(a) through 264.16(c) and 265.16(a) through 265.16(c)) [Revised July 2006]. | Y | Verified training of representative sample of employees at interim status unit. |
| HW.110.2.US. | **Training records** must be maintained for all TSDF staff that manages hazardous waste (40 CFR 264.16(d)(3), 264.16(d)(4), 264.16(e), 265.16(d)(3), 265.16(d)(4), and 265.16(e)) [Revised October 2003]. | Y | Verified training of representative sample of employees at interim status units. |
| **HW.145. Documentation Requirements** | | | |
| HW.145.1.US. | TSDFs that treat, store, or dispose of hazardous wastes must develop and follow a **written waste analysis plan** (40 CFR 264.13(b), 264.13(c), 265.13(b), and 265.13(c)). HW.145.2.US. TSDFs must conduct inspections and have a formal written inspection schedule and a log of inspection results (40 CFR 264.15 and 265.15) [Revised July 2006; Revised January 2017]. | Y | Follows LANL's HW permit waste analysis plan. |
| HW.145.3.US. | TSDFs must have a **contingency plan** (40 CFR 264.50 through 264.54 and 265.50 through 265.54) [Revised July 2006, Revised July 2010]. | Y | Reviewed contingency plan while doing on-site walkthrough. |

| Fed/ State Title | Language | Compliance (Y/N/NA) | Compliance Notes |
|---|---|---|---|
| HW.145.4.US. | TSDF operators must record the time, date, and details of any incident that requires implementing the contingency plan (40 CFR 264.56(i), 264.77(a), 265.56(i), and 265.77(a)) [Revised January 2005; Revised July 2006]. | NA | No recent record requiring implementation of contingency plan. |
| HW.145.5.US. | TSDF operators must keep **written operating records** at the facility (40 CFR 264.70, 264.73 through 264.74 and 265.70, 265.73 through 265.74) [Revised January 2003; Revised July 2006]. | Y | Verified and reviewed operating records that were kept at facility. |
| HW.145.6.US. | TSDFs must prepare and submit a single copy of a **biennial report** to the USEPA Regional Administrator by March 1 of each even numbered year (40 CFR 264.75 and 265.75) [Revised January 2017]. | Y | Biennial Report submitted February 26, 2020 for 2019 (EPC-DO-20-050) (2020a).. |
| HW.145.7.US. | TSDFs must have a **written closure plan** for each TSDF (40 CFR 264.110(a), 264.110(c), 264.112(a) through 264.112(c), 265.110(a), 265.110(c), and 265.112(a) through 265.112(c)) [Revised January 1999]. | Y | Reviewed closure plan included in Part B Permit Application. |
| HW.145.8.US. | TSDFs with hazardous waste disposal units are required to have a **written post-closure plan** (40 CFR264.110(b), 264.118, 264.110(b), and 265.118(a) through 265.118(d)) [Revised January 1999]. | NA | No disposal. |
| HW.145.9.US. | TSDFs that receive waste from offsite sources must comply with manifest requirements (40 CFR 264.70, 264.71, 265.70, and 265.71) [Revised February 1995; Revised April 2005; Revised April 2010; Revised April 2014; Revised January 2017]. | NA | Only receive waste generated at LANL. |
| HW.145.10.US. | TSDFs receiving hazardous waste from a foreign source must notify the Regional Administrator (40 CFR 264.12(a) and 265.12(a)) [Revised April 2010; Revised January 2017]. | NA | Only receive waste generated at LANL. |
| HW.145.11.US. | TSDFs that receive waste from offsite sources are required to attempt to resolve manifest discrepancies when they occur (40 CFR 264.72 and 265.72) [Revised April 2005, Revised July 2010]. | NA | Only receive waste generated at LANL. |

| Fed/ State Title | Language | Compliance (Y/N/NA) | Compliance Notes |
|---|---|---|---|
| HW.145.12.US. | Reports must be submitted to the USEPA when a TSDF accepts an unmanifested waste shipment (40 CFR 264.76 and 265.76) [Revised April 2005]. | NA | Only receive waste generated at LANL. |
| HW.145.13.US. | TSDFs that initiate a shipment of hazardous waste to a different, offsite TSDF must meet certain Generator standards (40 CFR 262.10(f)). | Y | Manifests reviewed. |
| HW.145.14.US. | **Records** must be maintained with job descriptions and descriptions of training for all TSDF staff that manages hazardous waste (40 CFR 264.16(d)(1), 264.16(d)(2), 265.16(d)(1) and 265.16(d)(2)) [Added October 2003]. | Y | Verified records while completing on-site walkthrough. |
| **HW.220. General** | | | |
| HW.220.1.US. | Interim status TSDFs are allowed to conduct open burn/open detonation (OB/OD) of waste explosives under specific conditions (40 CFR 265.382). | Y | Verified that all OB/OD is conducted at a minimum distance from property line. |
| HW.220.3.US. | Interim status TSDFs operating surface impoundments, landfills, or land treatment facilities used to manage hazardous waste are required to implement a groundwater monitoring program that meets specific standards (40 CFR 265.90(a) through 265.90(e), and 265.91) [Revised January 1999; Revised July 2006]. | NA | Open burn/open detonation (OB/OD) units do not require ground water monitoring. |
| HW.220.4.US. | Interim status TSDFs must gather and analyze samples from the groundwater monitoring system according to specific parameters (40 CFR 265.90(c), 265.90(e), 265.92, 265.93(b) through 265.93(d)) [Revised January 1999; Revised July 2006]. | NA | Open burn/open detonation (OB/OD) units do not require ground water monitoring. |
| HW.220.5.US. | Interim status TSDFs must have an outline of a more extensive groundwater quality assessment program and implement that program according to specific parameters when contamination is detected (40 CFR 265.77(b), 265.90(a) through 265.90(c), 265.90(e), 265.93(a)) [Revised January 1999; Citation Revised January 2005]. | NA | OB/OD units do not require ground water monitoring. |

| Fed/ State Title | Language | Compliance (Y/N/NA) | Compliance Notes |
|---|---|---|---|
| HW.220.8.US. | The interim status TSDF is required to meet specific reporting and recordkeeping requirements except when the groundwater is being monitored to satisfy a groundwater assessment program resulting from downgradient well contamination (40 CFR 265.90(a) through 265.90(c), 265.90(e), and 265.94(a)) [Revised January 1999]. | NA | OB/OD units do not require ground water monitoring. |
| HW.220.9.US. | When the groundwater is being monitored to satisfy a groundwater assessment program resulting from downgradient well contamination, specific records have to be maintained and reports submitted (40 CFR 265.90(a) through 265.90(c), 265.90(e), and 265.94(b)) [Revised January 1999]. | NA | OB/OD units do not require ground water monitoring. |
| **HW.250. Thermal Treatment** | | | |
| HW.250.1.US. | TSDFs with interim status thermal treatment facilities must meet specific requirements (40 CFR 265.370, 265.373, 265.375, 265.381, and 265.382). | Y | Verified that treatment process is approved through Part B permit application and is conducted at required distance from property line. |
| HW.250.2.US. | Interim status thermal treatment facilities must be certified if they treat certain wastes (40 CFR 265.383). | NA | Does not treat waste with codes F020 through F023, F026, or F027 |
| HW.250.3.US. | Operators of interim status thermal treatment facilities must conduct monitoring and inspections while thermally treating hazardous waste (40 CFR 265.377). | Y | Verified operating records, which included inspections to be conducted while operating OB/OD unit. |

## E.1.4 PERMITTED TREATMENT AND STORAGE FACILITIES

### E.1.4.1 General Conditions for Permitted Treatment, Storage and Disposal Facilities

| Permit Condition Section | Permit Language | Compliance (Y/N/NA) | Compliance Notes |
|---|---|---|---|
| **Permit Section 1** | | | |
| **1.5: EFFECT OF INACCURACIES IN PERMIT APPLICATION** | This Permit is based on information submitted in the Permittees' Application. The Application has numerous iterations; however, this Permit is based on: | Y | Verified accuracy of permit during on-site assessments of each facility (NMED 2020). |
| **1.5: EFFECT OF INACCURACIES IN PERMIT APPLICATION** | (1) the Part A Application dated August 2018; | Y | See parent note for PC 1.5 above. |
| **1.5: EFFECT OF INACCURACIES IN PERMIT APPLICATION** | (2) the General Part B Permit Application dated August 2003; | Y | See parent note for PC 1.5 above. |
| **1.5: EFFECT OF INACCURACIES IN PERMIT APPLICATION** | (3) the TA-3-29 CMR Part B Application dated September 1999; | Y | See parent note for PC 1.5 above. |
| **1.5: EFFECT OF INACCURACIES IN PERMIT APPLICATION** | (4) the TA-50 Part B Permit Application dated August 2002; | Y | See parent note for PC 1.5 above. |
| **1.5: EFFECT OF INACCURACIES IN PERMIT APPLICATION** | (5) the TA-54 Part B Permit Application dated June 2003; | Y | See parent note for PC 1.5 above. |
| **1.5: EFFECT OF INACCURACIES IN PERMIT APPLICATION** | (6) the TA-55 Part B Permit Application dated September 2003; and | Y | See parent note for PC 1.5 above. |
| **1.5: EFFECT OF INACCURACIES IN PERMIT APPLICATION** | (7) the TA-63 Permit Modification Request dated August 2011. | Y | See parent note for PC 1.5 above. |

| Permit Condition Section | Permit Language | Compliance (Y/N/NA) | Compliance Notes |
|---|---|---|---|
| **1.9.5: Duty to Mitigate** | In the event of noncompliance with this Permit, the Permittees shall take all reasonable steps to minimize releases of hazardous wastes and hazardous constituents to the environment and shall carry out such measures as are reasonable to prevent significant adverse impacts on human health or the environment (see 40 CFR § 270.30(d)). | Y | No non-compliance items were identified that could potentially lead to a release of hazardous waste? |
| **1.9.6: Proper Operation and Maintenance** | The Permittees shall at all times properly operate and maintain all facilities and systems of treatment and control and related appurtenances which are installed or used by the Permittees to achieve compliance with the conditions of this Permit. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls including appropriate quality assurance and quality control (QA/QC) procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems only when necessary to achieve compliance with this Permit (see 40 CFR § 270.30(e)). | Y | Verified performance, training, process controls, quality assurance program, and procedures during on-site assessment. |
| **1.9.9.10: Representative Sampling** | All samples and measurements taken by the Permittees under any condition in this Permit shall be representative of the medium, waste, or other material being sampled. To obtain a representative waste sample, the Permittees shall use an appropriate method from 40 CFR Part 261, Appendix I or an equivalent method approved by the Department. Laboratory methods must be those specified in the most current edition of Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW-846), or an equivalent method, as specified in Attachment C (Waste Analysis Plan) and Permit Section 2.4. | Y | Evaluated during on-site review through interviews with waste management coordinators and overview of procedures. |
| **1.9.10: Reporting Planned Changes** | The Permittees shall give advance written notice to the Department as soon as possible, of any planned physical alterations or additions to any permitted unit at the Facility (see 40 CFR § 270.30(l)(1)). | NA | No physical alterations to permitted units were noted during on-site review. |
| **1.9.11: Reporting Anticipated Noncompliance** | The Permittees shall give advance written notice to the Department of any planned changes to any permitted unit at the Facility or activity which may result in noncompliance with Permit requirements (see 40 CFR § 270.30(l)(2)). | NA | No planned changes to the permitted units were noted during on-site review. |

| Permit Condition Section | Permit Language | Compliance (Y/N/NA) | Compliance Notes |
|---|---|---|---|
| **1.9.12: 24 Hour and Subsequent Reporting** | The Permittees shall report to the Department, both orally and in writing, any noncompliance that may endanger human health or the environment and any incident that requires implementation of Attachment D (Contingency Plan) (see 40 CFR § 270.30(l)(6)). This report shall be submitted in accordance with Permit Sections 1.9.12.1 and 1.9.12.2. | Y | A non-compliance issue was reported which could have endanger human health or the environment [LANL March 12, 2021 – EPC-DO-21-086] (LANL 2021a). However, no non-compliance issue which resulted in the implementation of the contingency plan was identified during on-site review. |
| **1.9.12.1: 24 Hour Oral Report** | The Permittees shall make an initial oral report within 24 hours after the time the Permittees become aware of the noncompliance or the incident specified in Permit Section 1.9.12.<br><br>(1) the period of the noncompliance or incident including exact dates and times, and, if the noncompliance or incident has not been corrected, the anticipated time it is expected to be corrected; and<br>(2) steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance, incident or imminent hazard (see 40 CFR §§ 270.30(l)(6)(iii) and 270.32(b)(2)).<br><br>The Permittees shall include in the report a description of the spill response activities as required in Permit Section 2.10.4.<br><br>The Department may allow submittal of the written report within 15 calendar days in lieu of the five day requirement above if justifiable cause is provided in advance.<br><br>The Permittees shall give notice by e-mail to persons on the e-mail notification list of the report of non-compliance or incident in accordance with Permit Section 1.13. | Y | As a precautionary measure to keep NMED informed, an oral report and followed up with a "Five-Day Written Report for Oral Notification on March 9, 2021" [LANL March 12, 2021– EPC-DO-21-086] (LANL 2021a). No injuries nor releases of waste was noted in the written report. The contingency plan was not implemented during the reported event. |

| Permit Condition Section | Permit Language | Compliance (Y/N/NA) | Compliance Notes |
|---|---|---|---|
| **1.9.13: Written Reporting of a Non-threatening Release** | The Permittees shall report to the Department in the submittal referenced in Permit Section 1.9.14 any release from or at a permitted unit that the Permittees do not deem a threat to human health or the environment. The **written report** shall include a description of the occurrence and its cause including the following information:<br>(1) name, address, and telephone number of the owner and operator;<br>(2) name, address, and telephone number of the Facility;<br>(3) date, time, and type of incident;<br>(4) name and quantity of materials involved; and<br>(5) the estimated quantity and disposition of recovered material that resulted from the incident.<br>The Permittees shall include in the report a description of the spill response activities as required in Permit Section 2.10.4 (see 40 CFR § 270.32(b)(2)). | NA | No release from permitted units identified. |
| **1.9.14: Other Noncompliance** | The Permittees shall **report** all instances of noncompliance not reported under Permit Section 1.9.11. This report shall be submitted to the Department annually by December 1 for the year ending the previous September 30. These reports shall contain the information listed in Permit Section 1.9.12.2 and 40 CFR § 270.30(1)(10), which is incorporated herein by reference. The Permittees shall notify the Department in writing if there were no instances of noncompliance during the reporting period. This notice shall be submitted to the Department by December 1 for the year ending the previous September 30. | Y | Public memo titled: *Los Alamos National Laboratory Hazardous Waste Facility Permit Instances of Noncompliance and Releases for Fiscal Years 2018, 2019 and 2020* dated November 29, 2018, November 25, 2019 and November 30, 2020 issued to NMED fulfilling the permit requirement (LANL 2018, 2019, 2020b, respectively). |
| **1.9.15: Omissions or Misstatements in Applications or Other Reports** | Whenever the Permittees become aware that they have failed to submit any relevant facts in a permit application or have submitted incorrect information in a permit application or a report to the Department, the Permittees shall promptly report such facts or information in compliance with 40 CFR § 270.30(1)(11), which is incorporated herein by reference. | NA | No omissions or misstatements were noted during the on-site review. |
| **1.9.16: Signatory requirement** | The Permittees shall sign and certify all applications, reports, or information submitted to the Department and required by this Permit in compliance with 40 CFR §§ 270.11 and 270.30(k), which are incorporated herein by reference. | Y | Documents submitted to NMED verified as being signed according to the permit conditions. |

| Permit Condition Section | Permit Language | Compliance (Y/N/NA) | Compliance Notes |
|---|---|---|---|
| **1.10: INFORMATION REPOSITORY** | The Permittees shall ensure that the electronic and physical IRs contain, unless specified otherwise, the following documents: | Y | LANL's IR is managed through the Electronic Public Reading Room (EPRR) (LANL 2021c). Items 1-12 were evaluated through the EPRR. |
| **1.10: INFORMATION REPOSITORY** | (1) The Permittees' Part A and Part B Permit Applications associated with the permit renewal; | Y | See parent note for PC 1.10 above. |
| **1.10: INFORMATION REPOSITORY** | (2) A link to this Permit as it appears on the Department's website (electronic IR only); | Y | See parent note for PC 1.10 above. |
| **1.10: INFORMATION REPOSITORY** | (3) Permit modification requests associated with this Permit submitted pursuant to 40 CFR § 270.42 and any associated Department responses; | Y | See parent note for PC 1.10 above. |
| **1.10: INFORMATION REPOSITORY** | (4) The Waste Minimization Report submitted pursuant to Permit Section 2.9; | Y | See parent note for PC 1.10 above. |
| **1.10: INFORMATION REPOSITORY** | (5) The Biennial Report submitted pursuant to Permit Section 2.12.5; | Y | See parent note for PC 1.10 above. |
| **1.10: INFORMATION REPOSITORY** | (6) Corrective action documents submitted pursuant to Permit Part 11; | Y | See parent note for PC 1.10 above. |
| **1.10: INFORMATION REPOSITORY** | (7) Notices of deficiency or disapproval (NODs), NOD responses, final approval letters, and Department directions associated with the documents identified in Paragraphs 1, 3 and 6, above; and | Y | See parent note for PC 1.10 above. |
| **1.10: INFORMATION REPOSITORY** | (8) Notices of violation (NOV), administrative compliance orders, responses required by the Department, and Department directions associated with this Permit. (See 40 CFR § 124.33(c)) | Y | See parent note for PC 1.10 above. |
| **1.10: INFORMATION REPOSITORY** | The Permittees shall inform the public of the existence of each IR by the following methods: | NA | See parent note for PC 1.10 above. |
| **1.10: INFORMATION REPOSITORY** | (9) written notice to all individuals on the facility mailing list 30 days after the IR becomes operational; | Y | See parent note for PC 1.10 above. |

| Permit Condition Section | Permit Language | Compliance (Y/N/NA) | Compliance Notes |
|---|---|---|---|
| **1.10: INFORMATION REPOSITORY** | (10) public notice in area newspapers, including the Santa Fe New Mexican, the Journal North- Albuquerque Journal, the Rio Grande Sun, the Taos News, and the Los Alamos Daily Post when the IR becomes operational; | Y | See parent note for PC 1.10 above. |
| **1.10: INFORMATION REPOSITORY** | (11) continuous notice on the Permittees' environmental home page of the existence of the IRs; and | Y | See parent note for PC 1.10 above. |
| **1.10: INFORMATION REPOSITORY** | (12) in the public notice for any of the Permittees' requested permit modifications. (See 40 CFR § 124.33(e)) | Y | See parent note for PC 1.10 above. |
| **1.10: INFORMATION REPOSITORY** | The Permittees shall ensure that the electronic IR includes an electronic index of the documents contained in the IR that identifies each document by title, publication date, author, and any identification number, such as a Los Alamos Unrestricted Release (LAUR) number. The Permittees shall ensure that all documents maintained in the electronic IR are searchable by title, date, author, identification number, and individual words and phrases, and that all such documents are printable. | Y | All text in documents posted on the EPRR are searchable. |
| **1.10: INFORMATION REPOSITORY** | The Permittees shall conduct annual training to inform inexperienced computer users of how they can access and utilize the electronic IR. The Permittees shall inform the public of this training 30 days prior to the training by methods specified in Permit Section 1.10(9) through (11). The Permittees shall document the training content and all efforts to inform the public in the Facility Operating Record. | Y | Public Training for EPRR was conducted on December 9, 2020 as provided by notification for training date November 1, 2020 (LANL 2020c). |
| **1.11: GENERAL DOCUMENTS AND INFORMATION TO BE MAINTAINED AT THE FACILITY** | The Permittees shall maintain at the Facility the following documents and all amendments, revisions, and modifications to these documents: | Y | Items 1-5 are maintained onsite. |
| **1.11: GENERAL DOCUMENTS AND INFORMATION TO BE MAINTAINED AT THE FACILITY** | (1) this Permit, including all attachments; | Y | See parent note for PC 1.11 above. |

| Permit Condition Section | Permit Language | Compliance (Y/N/NA) | Compliance Notes |
|---|---|---|---|
| **1.11: GENERAL DOCUMENTS AND INFORMATION TO BE MAINTAINED AT THE FACILITY** | (2) a topographic map as required by 40 CFR § 270.13(l) and this Permit; | Y | See parent note for PC 1.11 above. |
| **1.11: GENERAL DOCUMENTS AND INFORMATION TO BE MAINTAINED AT THE FACILITY** | (3) the Waste Analysis Plan as required by 40 CFR § 264.13(b) and this Permit; | Y | See parent note for PC 1.11 above. |
| **1.11: GENERAL DOCUMENTS AND INFORMATION TO BE MAINTAINED AT THE FACILITY** | (4) the Inspection Plan (see 40 CFR § 264.15(b)); and | Y | See parent note for PC 1.11 above. |
| **1.11: GENERAL DOCUMENTS AND INFORMATION TO BE MAINTAINED AT THE FACILITY** | (5) a copy of emergency response agreements including all Memorandums of Agreement, Memorandums of Understanding, and Mutual Aid Agreements. | Y | See parent note for PC 1.11 above. |
| **1.12: COMMUNITY RELATIONS PLAN** | The Permittees shall establish and implement a Community Relations Plan (CRP) to describe how the Permittees will keep communities and interested members of the public informed of Permit-related activities, including waste management, closure, post-closure, and corrective action (see 40 CFR § 270.32(b)(2)). The CRP shall explain how communities and interested members of the public can participate in Permit-related activities. | Y | Community Relations Plan dated September 1, 2020 is posted on EPRR (LANL 2020d). |
| **1.15: COMPLIANCE SCHEDULE** | The Permittees shall submit documents to the Department for its approval, or perform other actions required by this Permit, in accordance with the schedule provided in Attachment I (Compliance Schedule) (see 40 CFR § 270.33(a)). If the action is not itself the submittal of a written document, the Permittees shall submit to the Department a written notification of their compliance with the schedule no later than 14 days following the scheduled date. | Y | All submittals were verified as being submitted in a timely manner, unless an extension request was received and approved. These documents are identified in other Permit Conditions and include: Contingency Plan, Community Relations Plan, Waste Minimization Program, Public Comments on Permit, and the Biennial Report. |

| Permit Condition Section | Permit Language | Compliance (Y/N/NA) | Compliance Notes |
|---|---|---|---|
| **1.16.1: Determination of Need for Further Action** | The Department will determine whether closure, post-closure, and any corrective actions implemented by the Permittees with regard to the property are protective of human health and the environment in light of the transferee's intended use of the property. If the Department determines that the closure, post-closure care activities, or the corrective actions are not sufficiently protective in light of the transferee's intended use, the Department will notify the Permittees whether additional actions are necessary. The Permittees must ensure the transferee is made aware of any remaining obligations associated with the property. Upon receipt of a determination that no (future) post-closure and corrective action activities are necessary, DOE may transfer the property and shall submit a permit modification request to reflect the Facility's new boundary. | NA | There were no active closures of permitted facilities at the time of review. |
| **Permit Section 2** | | | |
| **2.2: AUTHORIZED WASTES** | The Permittees shall accept, store, treat, or otherwise manage at permitted units at the Facility only those hazardous wastes the Permittees proposed to manage at the units in the Permit Application, which are those wastes bearing the EPA Hazardous Waste Numbers (i.e., waste codes) listed in Attachment B (Part A Application), unless otherwise prohibited by this Permit. | Y | Verified waste codes of representative sample of wastes stored at permitted areas. |
| **2.2.3: PCB -Contaminated Waste** | The Permittees shall not store liquid hazardous wastes containing polychlorinated biphenyls (PCBs) at concentrations greater than or equal to 50 parts per million (ppm) unless such storage is in compliance with 40 CFR § 268.50(f). | NA | No permitted storage of PCBs. |
| **2.3.1: Hazardous Waste Storage** | The Permittees shall not store hazardous wastes beyond one year from the date that the wastes were first placed into storage at a permitted unit unless the Permittees are able to demonstrate to the Department that one of the following conditions exists: | Y | Wastes stored over a year are identified on the Site Treatment Plan (STP). |
| **2.3.1: Hazardous Waste Storage** | (1) storage is solely for the purpose of accumulating such quantities of hazardous waste restricted from land disposal as necessary to facilitate proper recovery, treatment, or disposal (see 40 CFR § 268.50(a)(2)); | NA | See note for 2.3.1 above. |
| **2.3.1: Hazardous Waste Storage** | (2) the waste meets all of the applicable treatment standards under the Land Disposal Restrictions in 40 CFR Part 268, Subpart D, which are incorporated herein by reference; or | NA | See note for 2.3.1 above. |
| **2.3.1: Hazardous Waste Storage** | (3) that a mixed waste is documented on the Site Treatment Plan (STP) database under the Federal Facility Compliance Order (FFCO) and such | NA | See note for 2.3.1 above. |

| Permit Condition Section | Permit Language | Compliance (Y/N/NA) | Compliance Notes |
|---|---|---|---|
| | storage is otherwise in compliance with all requirements of the STP and FFCO. (see 40 CFR §§ 268.50(b) and (e)) | | |
| **2.3.2: Prohibition on Dilution** | The Permittees shall not dilute a waste that is prohibited from land disposal or the residue from treatment of a prohibited waste as a substitute for treatment as specified at 40 CFR § 268.3, which is incorporated herein by reference. Dilution to avoid an applicable treatment standard includes, but is not limited to, the addition of solid waste to reduce a hazardous constituent's concentration or ineffective treatment that does not destroy, remove, or permanently immobilize hazardous constituents. Aggregating or mixing wastes as part of a legitimate treatment process is not prohibited dilution for purposes of this Permit. | Y | No dilution of waste observed in reviewing characterization documents of non- hazardous wastes. |
| **2.3.3: Documentation of Exclusion or Exemption** | The Permittees shall place a one-time notice in the Facility Operating Record for any land disposal prohibited wastes that the Permittees determine are excluded from the definition of hazardous or solid waste or determine are exempted from Subtitle C regulation under 40 CFR §§ 261.2 through 261.6 subsequent to the point of generation (see 40 CFR § 268.7(a)(7)). Exemptions required to be documented include, but are not limited to, hazardous waste managed in wastewater treatment systems subject to the Clean Water Act (CWA) as specified at 40 CFR §§ 264.1(g)(6) and 260.10, which are incorporated herein by reference. The Facility's on-site files shall include in this documentation a description of the process that generated the waste, the justification for its exemption or exclusion, and a description of the final disposition of the waste. | Y | No hazardous waste streams from permitted units are excluded through other regulations. |
| **2.4.1: General Waste Characterization Requirements** | The Permittees shall accept, store, treat, or otherwise manage at permitted units at the Facility only those hazardous waste streams that have been fully characterized in accordance with the requirements of 40 CFR § 264.13, which is incorporated herein by reference, the conditions in this Permit Part, and Attachment C (Waste Analysis Plan). | Y | Characterization of wastes checked for a representative sample. See checklist for sites visited to review specific waste streams that characterization was reviewed. |
| **2.4.1: General Waste Characterization Requirements** | At a minimum, the Permittees shall obtain and document all of the information that must be known to treat, store, or otherwise manage a hazardous waste stream in accordance with 40 CFR Parts 264 and 268 including, but not limited to: | Y | See parent note for PC 2.4.1 above. |
| **2.4.1: General Waste Characterization Requirements** | (1) all applicable EPA hazardous waste numbers; | Y | See parent note for PC 2.4.1 above. |

| Permit Condition Section | Permit Language | Compliance (Y/N/NA) | Compliance Notes |
|---|---|---|---|
| **2.4.1: General Waste Characterization Requirements** | (2) waste characterization necessary to determine whether the waste stream is prohibited from land disposal; | Y | See parent note for PC 2.4.1 above. |
| **2.4.1: General Waste Characterization Requirements** | (3) waste characterization necessary to prevent the mixing or placing of incompatible wastes in the same container (see 40 CFR §§ 264.17 and 264.177) or tank system (see 40 CFR § 264.199), and to prevent the impairment of containers (see 40 CFR § 264.172), tanks, and secondary containment systems for tanks by incompatible wastes (see 40 CFR § 264.193(c)(1)); | Y | See parent note for PC 2.4.1 above. |
| **2.4.1: General Waste Characterization Requirements** | (4) waste characterization necessary to prevent accidental or spontaneous ignition or reaction of ignitable or reactive wastes, including, but not limited to, ignition or reaction in containers (see 40 CFR § 264.17) and tank systems (see 40 CFR § 264.198); | Y | See parent note for PC 2.4.1 above. |
| **2.4.1: General Waste Characterization Requirements** | (5) whether the waste is a mixed waste (see 40 CFR § 270.32(b)(2)); | Y | See parent note for PC 2.4.1 above. |
| **2.4.1: General Waste Characterization Requirements** | (6) whether the waste contains free liquids; | Y | See parent note for PC 2.4.1 above. |
| **2.4.1: General Waste Characterization Requirements** | (7) the waste stream name; | Y | See parent note for PC 2.4.1 above. |
| **2.4.1: General Waste Characterization Requirements** | (8) the unique waste stream identifier; | Y | See parent note for PC 2.4.1 above. |
| **2.4.1: General Waste Characterization Requirements** | (9) the waste stream generation location (e.g. building and room number); and | Y | See parent note for PC 2.4.1 above. |
| **2.4.1: General Waste Characterization Requirements** | (10) a detailed description of the waste stream generation process that includes all relevant material inputs or other information that identifies the chemical content and physical form of the waste. | Y | See parent note for PC 2.4.1 above. |
| **2.4.1: General Waste Characterization Requirements** | The Permittees shall characterize waste streams by using current Department-approved sampling and analysis methods, acceptable knowledge, or a combination of the two. When acceptable knowledge is insufficient to fully characterize a waste stream, the Permittees shall utilize sampling and analysis to complete that characterization. | Y | Waste characterization records are maintained in Waste Characterization and Tracking System (WCATS) and a representative sample were reviewed (LANL 2021b). |
| **2.4.1: General Waste Characterization Requirements** | The Permittees shall maintain all waste characterization information in the Facility Operating Record. For records that contain waste characterization information concerning any hazardous or mixed wastes managed under this Permit, which are required to be archived | Y | Waste characterization records are maintained in WCATS and a |

| Permit Condition Section | Permit Language | Compliance (Y/N/NA) | Compliance Notes |
|---|---|---|---|
| | elsewhere at the Facility (e.g., laboratory record books), the Permittees shall maintain a traceable identifier to this documentation to facilitate access by the Permittees and the Department (see 40 CFR § 270.32(b)(2)). The Permittees shall maintain waste characterization documentation in accordance with the record retention requirements in Permit Section 2.12.2. | | representative sample were reviewed (LANL 2021b). |
| **2.4.2: Sampling and Analysis for Hazardous Wastes** | The Permittees shall perform all sampling and analytical procedures used for waste characterization in accordance with Department-approved laboratory analytical methods, including the most recent version of Test Methods for Evaluating Solid Waste, Physical/Chemical Methods (U.S. EPA Publication SW-846) and Tables C-16, C-17, and C-18 in Attachment C (Waste Analysis Plan). The Permittees shall ensure that samples collected and analyzed for waste characterization are representative of the chemical composition of the entire volume of the waste stream. | Y | All analytical sampling data is done through department approved labs and methods. |
| **2.4.2: Sampling and Analysis for Hazardous Wastes** | The Permittees shall ensure that procedures used to collect a representative sample of a waste stream preserve its original physical form and composition and ensure prevention of contamination or changes in concentration of the constituents to be analyzed. | Y | Waste characterization methods were reviewed for a representative sample of wastes. |
| **2.4.2: Sampling and Analysis for Hazardous Wastes** | The Permittees shall implement a quality assurance and quality control (QA/QC) program to ensure that sample collection and analytical procedures used to support waste characterization required under this Permit are technically accurate and statistically valid. This QA/QC program must comply with the requirements in SW-846. The Permittees shall identify and perform the appropriate number of control samples associated with each sample collected (e.g., trip and field blanks, field duplicates, field spikes). The Permittees shall maintain a record in the Facility Operating Record of all QA/QC procedures utilized in the sampling and analysis of a waste stream. | Y | QA/QC procedures regarding waste characterization at permitted units were reviewed with waste management coordinators. |
| **2.4.2: Sampling and Analysis for Hazardous Wastes** | When performing laboratory analysis, the Permittees, or a laboratory under contract to the Permittees, shall analyze the appropriate number of method blanks, laboratory duplicates, and laboratory control samples to assess the quality of the data resulting from laboratory analytical programs. | Y | All analytical sampling data is done through department approved labs and methods. |
| **2.4.2: Sampling and Analysis for Hazardous Wastes** | If the Permittees use an independent contract laboratory to conduct waste analyses, the Permittees shall require the analytical laboratory to conduct such analysis in accordance with the waste analysis conditions set forth in Permit Part 2.4 and Attachment C (Waste Analysis Plan), Section C.3 (Characterization Procedures). Copies of contracts or other documentation identifying the independent laboratory and showing that | Y | All analytical sampling data is done through department approved labs and methods. |

| Permit Condition Section | Permit Language | Compliance (Y/N/NA) | Compliance Notes |
|---|---|---|---|
| | the analytical laboratory is required to operate in accordance with the waste analysis conditions shall be kept in the Facility Operating Record (see 40 CFR § 270.32(b)(2)). | | |
| **2.4.2: Sampling and Analysis for Hazardous Wastes** | The Permittees may propose to the Department an analytical method that deviates from Department-approved methods. The Permittees must submit a written request to the Department for review and approval 90 days prior to using the proposed sampling or analytical procedure. This request must include the following information: | NA | There are no alternative methods performed at LANL. |
| **2.4.2: Sampling and Analysis for Hazardous Wastes** | (1) a statement of the need and justification for the proposed action; | NA | See parent note for PC 2.4.2. |
| **2.4.2: Sampling and Analysis for Hazardous Wastes** | (2) a full description of the alternative method (i.e., a standard operating procedure) including all procedural steps and equipment used in the method; | NA | See parent note for PC 2.4.2. |
| **2.4.2: Sampling and Analysis for Hazardous Wastes** | (3) a description of the types of wastes, or waste matrices, for which the proposed method may be used; | NA | See parent note for PC 2.4.2. |
| **2.4.2: Sampling and Analysis for Hazardous Wastes** | (4) comparative analytical data obtained from using the proposed method with those obtained from using the Department-approved relevant or corresponding methods in Attachment C (Waste Analysis Plan); | NA | See parent note for PC 2.4.2. |
| **2.4.2: Sampling and Analysis for Hazardous Wastes** | (5) a demonstration that the proposed analytical procedure is equal to, or superior to, the corresponding methods in Attachment C (Waste Analysis Plan) in terms of its sensitivity, accuracy, and precision (i.e., reproducibility); | NA | See parent note for PC 2.4.2. |
| **2.4.2: Sampling and Analysis for Hazardous Wastes** | (6) an assessment of any factors which may interfere with or limit the use of the proposed method; and | NA | See parent note for PC 2.4.2. |
| **2.4.2: Sampling and Analysis for Hazardous Wastes** | (7) a description of the QA/QC procedures necessary to ensure the sensitivity, accuracy, and precision of the proposed method. | NA | See parent note for PC 2.4.2. |
| **2.4.2: Sampling and Analysis for Hazardous Wastes** | The Permittees shall obtain written approval from the Department of the alternative method before substituting it for an approved method under this Permit, except that a change requested to conform with agency guidance or regulations shall be a Class 1 permit modification (see 40 CFR § 270.42 Appendix 1). | Y | All analytical sampling data is done through department approved labs and methods. |
| **2.4.3: Acceptable Knowledge** | The Permittees may use acceptable knowledge to characterize waste in lieu of, or to supplement, sampling and analysis. The Permittees shall document all uses of acceptable knowledge, and include in the acceptable knowledge documentation all of the background | Y | Acceptable knowledge documents were reviewed for a representative sample of hazardous wastes and these |

| Permit Condition Section | Permit Language | Compliance (Y/N/NA) | Compliance Notes |
|---|---|---|---|
| | information assembled and used in the characterization process relevant to the decision to use acceptable knowledge (see 40 CFR § 270.32(b)(2)). The record must document the resolution of any data discrepancies between different sources of acceptable knowledge. Acceptable knowledge documentation must be maintained in an auditable form in the Facility Operating Record. The Permittees shall assign a traceable identifier to this documentation to facilitate both access to this information and its verification by the Permittees and the Department. | | documents are retained on the WCATS system (LANL 2021b). |
| **2.4.5: Treatment-Derived Waste** | The Permittees shall characterize treatment-derived wastes generated both on-site and off-site by determining whether the treatment residues meet the applicable treatment standard in accordance with 40 CFR § 268.7(b), which is incorporated herein by reference, unless the Permittees have documented that the purpose of the treatment process is not to attain the applicable treatment standard. The Permittees shall ensure adherence to notification and recordkeeping requirements specified at 40 CFR § 268.7(b)(3)(ii). If the waste remains a hazardous waste, the Permittees shall further characterize it in compliance with the applicable requirements of Permit Section 2.4.1. | y | Treatment derived waste is handled as low-level mixed waste, as verified while watching treatment process. |
| **2.4.7: Waste Characterization Review** | The Permittees shall ensure that the initial characterization of any hazardous waste stream managed under this Permit is reviewed or repeated to verify that the characterization is accurate and up to date (see 40 CFR § 264.13(b)(4)). The Permittees shall document this review in the Facility Operating Record. The Permittees shall perform the following: | Y | WCATS system requires annual verification of waste stream profiles, which includes characterization records (LANL 2021b). |
| **2.4.7: Waste Characterization Review** | (1) Annually reevaluate all hazardous waste streams generated to verify the accuracy of initial and subsequent characterization results. The annual reevaluation shall be required no later than one year from the date of initial characterization of the hazardous waste stream or one year from the last annual revaluation; | Y | See parent note for PC 2.4.7 above. |
| **2.4.7: Waste Characterization Review** | (2) Recharacterize hazardous wastes whenever there is a change in the waste-generating processes which includes a change in the status of the waste for purposes of Land Disposal Restrictions or when analytical results indicate a change in the waste stream; | Y | See parent note for PC 2.4.7 above. |
| **2.4.7: Waste Characterization Review** | (3) Annually verify the waste characterization of one percent of hazardous waste streams characterized solely by acceptable knowledge (see 40 CFR §§ 264.13(b)(4) and 270.32(b)(2)). Such waste characterization verification shall be performed by quantitative chemical analyses appropriate for the waste as specified in Attachment C (Waste Analysis Plan). The one percent of wastes whose | Y | See parent note for PC 2.4.7 above. |

| Permit Condition Section | Permit Language | Compliance (Y/N/NA) | Compliance Notes |
|---|---|---|---|
| | characterization is to be verified shall be determined in relation to the total number of unique waste streams characterized solely by acceptable knowledge and managed at TA-54 in the previous calendar year. The waste streams whose characterization is to be verified shall be chosen without further bias and the selection procedure shall be documented in the Facility Operating Record. Wastes not required to undergo this annual verification and not to be counted toward the total number of wastes managed in the previous year include mixed transuranic wastes, hazardous debris, and hazardous wastes that are hazardous only because they are listed at 40 CFR Part 261, Subpart D; and | | |
| **2.4.7: Waste Characterization Review** | (4) Recharacterize a hazardous waste stream whenever the Permittees are notified by a receiving off-site facility that the characterization of a hazardous waste they obtained from the Permittees' Facility does not match a pre-approved waste analysis certification or accompanying waste manifest or shipping paper. The Permittees shall notify the Department in writing within three days of their receipt of the notice of the discrepancy from a receiving facility. | Y | See parent note for PC 2.4.7 above. |
| **2.4.8: Waste Characterization for Compliance with RCRA Air Emission Requirements** | The Permittees shall characterize hazardous wastes managed in containers and tanks to determine the average volatile organic compound (VOC) concentration relative to 500 parts per million by weight (ppmw) at the point of waste origination in compliance with 40 CFR Part 264, Subpart CC. The Permittees shall determine the average VOC concentration either by utilizing acceptable knowledge or by using the procedures specified in 40 CFR § 264.1083(a), which is incorporated herein by reference. The Permittees shall review and update this determination at least once every 12 months following the date of the initial determination in compliance with 40 CFR § 264.1082(c)(1), which is incorporated herein by reference. | NA | No wastes requiring emission controls observed at permitted units, except for mixed wastes. |
| **2.4.8: Waste Characterization for Compliance with RCRA Air Emission Requirements** | The Permittees shall not be required to control air pollutant emissions from a container or tank and thus shall not be required to characterize the waste for its average VOC concentration in the following circumstances: | NA | See parent note for PC 2.4.8 above. |
| **2.4.8: Waste Characterization for Compliance with RCRA Air Emission Requirements** | (1) if the container or tank stores mixed waste (see 40 CFR § 264.1080(b)(6)); | NA | See parent note for PC 2.4.8 above. |
| **2.4.8: Waste Characterization for Compliance with RCRA Air Emission Requirements** | (2) if the container storing the wastes has a total capacity of less than 0.1 cubic meter (approximately 26 gallons)(see 40 CFR § 264.1080(b)(2)); or | NA | See parent note for PC 2.4.8 above. |

| Permit Condition Section | Permit Language | Compliance (Y/N/NA) | Compliance Notes |
|---|---|---|---|
| **2.4.8: Waste Characterization for Compliance with RCRA Air Emission Requirements** | (3) if a tank has stopped receiving hazardous waste and is undergoing closure (see 40 CFR § 264.1080(b)(3)). | NA | See parent note for PC 2.4.8 above. |
| **2.4.8: Waste Characterization for Compliance with RCRA Air Emission Requirements** | The Permittees shall not be required to determine the average VOC concentration of wastes if control of air pollution emissions from containers is achieved utilizing the container construction specifications and operation requirements specified in 40 CFR § 264.1086(b), which is incorporated herein by reference. | NA | See parent note for PC 2.4.8 above. |
| **2.4.9: Waste Characterization for Compliance with Land Disposal Restrictions** | The Permittees shall ensure that before any hazardous waste is managed at a permitted unit a determination has been made as to whether the waste has to be treated before it can be land disposed (see 40 CFR § 268.7(a)). The Permittees must characterize waste designated to be disposed of at the Waste Isolation Pilot Plant (WIPP) to determine whether it is subject to the land disposal prohibitions, except that such waste is not required to be characterized to determine all applicable underlying hazardous constituents listed in 40 CFR § 268.48. | Y | Verified through manifest review that all wastes that are prohibited from land disposal are sent for treatment. |
| **2.4.9: Waste Characterization for Compliance with Land Disposal Restrictions** | When using laboratory analysis as part of a hazardous waste characterization pursuant to Attachment C (Waste Analysis Plan), Section C.3.1.2, the Permittees shall require the laboratory to report concentrations of all hazardous constituents listed at 40 CFR § 268.48, Table UTS that the analytical test method used is capable of measuring, as specified at the most recent version of the U.S. EPA's Test Methods for Evaluating Solid Wastes (SW-846). When performing this laboratory analysis the Permittees will not be required to perform sample preparation or determinative procedures other than those performed routinely for the target analytes. | Y | All analytical sampling data is done through department approved labs and methods. |
| **2.4.9: Waste Characterization for Compliance with Land Disposal Restrictions** | When performing or obtaining laboratory analysis to demonstrate that a waste meets its applicable treatment standard concentrations specified in 40 CFR § 268.40, Treatment Standards for Hazardous Wastes, in compliance with 40 CFR §§ 268.7(a) and (b), which are incorporated herein by reference, the Permittees shall ensure that analytical method practical quantification limits are not higher than the applicable treatment standard (see 40 CFR § 270.32(b)). | Y | All analytical sampling data is done through department approved labs and methods. |
| **2.4.9: Waste Characterization for Compliance with Land Disposal Restrictions** | The Permittees shall characterize treatment-derived wastes by determining whether the waste is a hazardous or mixed waste in compliance with the requirements in Permit Section 2.4.1 and in compliance with the notification and recordkeeping requirements specified in 40 CFR § 268.7(b)(3)(ii), Treatment Facility Paperwork Requirements Table, which is incorporated herein by reference. | Y | All treatment-derived waste utilized in glovebox treatment is characterized as Low-Level Waste as verified in interview with on-site POCs during |

| Permit Condition Section | Permit Language | Compliance (Y/N/NA) | Compliance Notes |
|---|---|---|---|
| | | | walkthrough of treatment process. |
| **2.4.9: Waste Characterization for Compliance with Land Disposal Restrictions** | The Permittees shall characterize treatment-derived wastes, including those wastes that are formerly characteristic and no longer hazardous or mixed waste, to determine whether the waste meets the applicable treatment standard specified at 40 CFR §§ 268.40, 268.45, 268.48, and 268.49, in compliance with 40 CFR § 268.7(b), which is incorporated herein by reference. Pursuant to 40 CFR § 268.7(b)(3)(ii), the Permittees shall characterize treatment-derived wastes to determine the presence of any constituents of concern for hazardous waste codes F001 through F005, F039, and the presence of underlying hazardous constituents in characteristic wastes as defined at 40 CFR § 268.2(i), which is incorporated herein by reference. | NA | All treatment-derived waste utilized in glovebox treatment is characterized as Low-Level Waste as verified in interview with on-site POCs during walkthrough of treatment process. |
| **2.5: SECURITY** | The Permittees shall prevent the unknowing entry and minimize the possibility for the unauthorized entry of persons or livestock onto the permitted units at the Facility (see 40 CFR § 264.14).<br>The Permittees shall ensure the permitted units' security by implementing the following measures: | Y | All entries to permitted units are gated and monitored. |
| **2.5: SECURITY** | (1) 24-hour surveillance system continuously monitoring and controlling entry into the permitted units at the Facility; or | Y | See parent note for PC 2.5 above. |
| **2.5: SECURITY** | (2) controlled entry into the permitted units at all times via gates, stations, or other means (e.g., attendants, locks, prohibited or controlled roadway access). | Y | See parent note for PC 2.5 above. |
| **2.5.1: Warning Signs** | The Permittees shall post bilingual warning signs (in English and Spanish) at all gates and perimeter fences, where present, around the permitted units (see 40 CFR § 264.14(c)). Signs shall be posted in sufficient numbers to be visible at all angles of approach as well as from a distance of at least 25 feet. The Permittees shall include on the signs the following or an equivalent warning: | Y | Signage verified during on-site assessment. |
| **2.5.1: Warning Signs** | DANGER – UNAUTHORIZED PERSONNEL KEEP OUT (PELIGRO – SE PROHIBE LA ENTRADA A PERSONAS NO AUTORIZADAS) | Y | See parent note for PC 2.5.1 above. |
| **2.5.1: Warning Signs** | The Permittees shall post warning signs in the appropriate dialect of Tewa in a manner equivalent to the bilingual warning signs in English and Spanish along shared boundaries with the Facility's permitted units and the Pueblo of San Ildefonso (PO WHO GEH). | Y | See parent note for PC 2.5.1 above. |
| **2.5.1: Warning Signs** | The Permittees shall post signs requested by Santa Clara Pueblo (Kha-'Po). The Permittees shall include on the signs the following warning: | Y | See parent note for PC 2.5.1 above. |

| Permit Condition Section | Permit Language | Compliance (Y/N/NA) | Compliance Notes |
|---|---|---|---|
| **2.5.1: Warning Signs** | Wi-i ts'uni pi' – (DO NOT ENTER) | Y | See parent note for PC 2.5.1 above. |
| **2.6: GENERAL INSPECTION REQUIREMENTS** | The Permittees shall inspect all the permitted units for malfunctions, deterioration, operator errors, and discharges which may cause or may lead to: | Y | Inspection records were reviewed. A representative sample for CY20 and CY21 were reviewed. |
| **2.6: GENERAL INSPECTION REQUIREMENTS** | (1) a release of hazardous constituents to the environment; or | Y | See parent note for PC 2.6 above. |
| **2.6: GENERAL INSPECTION REQUIREMENTS** | (2) a threat to human health. (see 40 CFR § 264.15(a)) | Y | See parent note for PC 2.6 above. |
| **2.6: GENERAL INSPECTION REQUIREMENTS** | Inspections shall be conducted of all waste management structures, base materials, containers, monitoring equipment, safety and emergency equipment, security devices, and operating equipment that are important in preventing, detecting, and responding to environmental or human health hazards associated with hazardous wastes (see 40 CFR § 264.15(b)(1)). | Y | Inspection records were reviewed. A representative sample for CY20 and CY21 were reviewed. |
| **2.6: GENERAL INSPECTION REQUIREMENTS** | The Permittees shall implement the inspection program for the permitted units in compliance with the operating schedule, recordkeeping, and response action commitments in Attachment E (Inspection Plan). | Y | Inspection records were reviewed. A representative sample for CY20 and CY21 were reviewed. |
| **2.6.1: Inspection Schedule** | The Permittees shall conduct inspections to identify problems in time to correct them before they harm human health or the environment (see 40 CFR § 264.15(a)). The Permittees shall inspect the permitted units and all associated structures and equipment, in compliance with the inspection schedules contained in Attachment E (Inspection Plan). | Y | Inspection records were reviewed. A representative sample for CY20 and CY21 were reviewed. |
| **2.6.1: Inspection Schedule** | The Permittees shall inspect areas subject to spills, such as loading and unloading areas, daily when in use (see 40 CFR § 264.15(b)(4)). | Y | Inspection records were reviewed. A representative sample for CY20 and CY21 were reviewed. |
| **2.6.2: Repair of Equipment and Structures** | The Permittees shall remedy any deterioration or malfunction of equipment or structures discovered during an inspection which may lead to an environmental or human health hazard. The Permittees shall mitigate such deterioration or malfunction within 24 hours of discovery of the problem. The Permittees shall immediately implement remedial action where a hazard is imminent or has already occurred (see 40 CFR § 264.15(c)). | N | Permitted Unit TA-55 site 480 noted an Action Required for repair of asphalt. The asphalt remains in need of repair. |

| Permit Condition Section | Permit Language | Compliance (Y/N/NA) | Compliance Notes |
|---|---|---|---|
| **2.6.3: Inspection Logs and Records** | The Permittees shall record the results of inspections on the Hazardous Waste Facility Inspection Record Form in Attachment E (Inspection Plan) for each inspection conducted in accordance with Permit Section 2.6 and Attachment E. At a minimum, the Permittees shall produce a handwritten record of the date and time of the inspection, an identification of the permitted unit and associated structures or equipment, the name of the inspector, a notation of the observations made, and the date and nature of any repairs or other remedial actions taken (see 40 CFR § 264.15(d)). The Permittees shall ensure that these records are clearly legible, all handwritten information is in ink, and errors are crossed out with a single line, initialed, and dated by the individual making the correction. The Permittees shall maintain the inspection logs and records in a paper format. The Permittees may transfer the inspection logs and records into an electronic format acceptable to the Department. The paper format shall be retained for the period of time specified in Permit Section 2.12.2. | N | Inspection records were reviewed, and observations on deficiencies of inspection records were noted at Permitted Unit TA-54. |
| **2.6.3: Inspection Logs and Records** | The Permittees shall record the following observations or actions in the Facility Operating Record: | Y | Evaluated for compliance based on review of items 1-6 below. |
| **2.6.3: Inspection Logs and Records** | (1) the results of any preventive maintenance activities including, but not limited to, maintenance on floors, secondary containment structures, unit drainage structures, and fire protection equipment at a permitted unit; | N | Preventive maintenance activities requiring attention were observed at TA-54 during the on-site review. |
| **2.6.3: Inspection Logs and Records** | (2) any malfunctions and deterioration of such structures or equipment; | N | See Above. |
| **2.6.3: Inspection Logs and Records** | (3) any errors affecting waste containment or compliance with this Permit; | N | See Above. |
| **2.6.3: Inspection Logs and Records** | (4) the locations, dimensions, and repairs of all identified cracks or gaps in floors or base materials; | N | See Above. |
| **2.6.3: Inspection Logs and Records** | (5) any discharges of hazardous waste, hazardous constituents, or fire suppression systems at a permitted unit; and | Y | No records of release or use of fire suppression system. |
| **2.6.3: Inspection Logs and Records** | (6) any occurrences that might cause or exacerbate contamination of a permitted unit. | Y | No record of contamination of a permitted unit. |
| **2.6.3: Inspection Logs and Records** | The Permittees shall maintain inspection logs in the Facility Operating Record as specified in Permit Section 2.12.2. | Y | Inspection logs maintained onsite, as verified when reviewed. |

| Permit Condition Section | Permit Language | Compliance (Y/N/NA) | Compliance Notes |
|---|---|---|---|
| **2.7: PERSONNEL TRAINING** | The Permittees shall ensure that all Facility personnel who are involved in hazardous waste management activities regulated under this Permit successfully complete all training programs in compliance with the training requirements of 40 CFR § 264.16, which is incorporated herein by reference, as well as the training requirements in Attachment F (Personnel Training Plan). | Y | Reviewed training from a representative sample of waste handlers at the site. |
| **2.8: SPECIAL REQUIREMENTS FOR IGNITABLE, REACTIVE, OR INCOMPATIBLE WASTE** | The Permittees shall manage ignitable, reactive, and incompatible hazardous wastes in containers and tanks in compliance with the requirements of 40 CFR §§ 264.17, 264.176, 264.177, 264.198, and 264.199, which are incorporated herein by reference, and Permit Parts 3 and 4. The Permittees shall ensure that containers holding ignitable or reactive wastes are located at least 15 meters from the facility boundary defined as the technical area (TA) specific boundary identified in Figures 11, 22, 24, and 38 in Permit Attachment N (Figures). At TA-63, the Permittees shall ensure that containers holding ignitable or reactive waste are located at least 15 meters from the TWF fence line, as shown in Figure 55 in Permit attachment N (Figures) (see 40 CFR §§ 264.176 and 270.32(b)(2)). | Y | Verified during on-site review that ignitable, reactive, and incompatible wastes are:<br>-separated from sources of ignition<br>-segregated by dike, berm, wall, or other device from incompatible wastes<br>-15 meters from facility boundary<br>-stored in containers that have been decontaminated or have not previously held incompatible materials |
| **2.8: SPECIAL REQUIREMENTS FOR IGNITABLE, REACTIVE, OR INCOMPATIBLE WASTE** | The Permittees shall take precautions during the treatment or storage of ignitable or reactive waste, the mixing of incompatible waste, or the mixing of incompatible wastes and other materials to prevent reactions that could lead to or cause the following: | Y | See parent note for PC 2.8 above. |
| **2.8: SPECIAL REQUIREMENTS FOR IGNITABLE, REACTIVE, OR INCOMPATIBLE WASTE** | (1) generation of extreme heat, pressure, fire, explosions, or violent reactions; | Y | See parent note for PC 2.8 above. |
| **2.8: SPECIAL REQUIREMENTS FOR IGNITABLE, REACTIVE, OR INCOMPATIBLE WASTE** | (2) production of uncontrolled toxic mist, fumes, dusts, or gases in sufficient quantities to threaten human health or the environment; | Y | See parent note for PC 2.8 above. |
| **2.8: SPECIAL REQUIREMENTS FOR IGNITABLE, REACTIVE, OR INCOMPATIBLE WASTE** | (3) production of uncontrolled inflammable fumes or gases in sufficient quantities to pose a risk of fire or explosions; | Y | See parent note for PC 2.8 above. |
| **2.8: SPECIAL REQUIREMENTS FOR IGNITABLE, REACTIVE, OR INCOMPATIBLE WASTE** | (4) damage to the structural integrity of the container, tank, permitted unit, or other structure associated with the permitted unit; and | Y | See parent note for PC 2.8 above. |

| Permit Condition Section | Permit Language | Compliance (Y/N/NA) | Compliance Notes |
|---|---|---|---|
| **2.8: SPECIAL REQUIREMENTS FOR IGNITABLE, REACTIVE, OR INCOMPATIBLE WASTE** | (5) a threat to human health or the environment. | Y | See parent note for PC 2.8 above. |
| **2.8.1: Ignitable and Reactive Waste Precautions** | The Permittees shall prevent accidental ignition or reaction of ignitable or reactive wastes by taking the following precautions: | Y | See parent note for PC 2.8 above. |
| **2.8.1: Ignitable and Reactive Waste Precautions** | (1) ensure there are no sources of open flames in, on, or around the container or tank; | Y | See parent note for PC 2.8 above. |
| **2.8.1: Ignitable and Reactive Waste Precautions** | (2) segregate and separate ignitable or reactive wastes and protect them from sources of ignition or reaction such as cutting and welding, frictional heat, sparks (e.g., static, electrical, mechanical), spontaneous ignition, and radiant heat; | Y | See parent note for PC 2.8 above. |
| **2.8.1: Ignitable and Reactive Waste Precautions** | (3) maintain adequate clearance around fire hydrants at permitted units; | Y | Verified there were no impediments from hydrant access. |
| **2.8.1: Ignitable and Reactive Waste Precautions** | (4) use only non-sparking tools when managing hazardous waste containers that contain ignitable or reactive wastes; | Y | See parent note for PC 2.8 above. |
| **2.8.1: Ignitable and Reactive Waste Precautions** | (5) ensure appropriate lightning protection is provided for all storage and treatment units; | Y | See parent note for PC 2.8 above. |
| **2.8.1: Ignitable and Reactive Waste Precautions** | (6) perform ongoing inspection, testing, and maintenance of fire protection equipment to determine appropriate test criteria and preventative maintenance activities; | Y | Verified inspection reports evaluated fire protection equipment. |
| **2.8.1: Ignitable and Reactive Waste Precautions** | (7) confine smoking and open flames to designated areas that are a minimum of 50 feet from areas where ignitable or reactive wastes are handled; | Y | Verified no smoking was allowed in permitted units. |
| **2.8.1: Ignitable and Reactive Waste Precautions** | (8) stack containers of ignitable and reactive wastes no more than 2 drums high to comply with the National Fire Protection Association's (NFPA) Flammable and Combustible Liquids Code; and | Y | Verified ignitable and reactive wastes were stored no more than 2 drums high. |
| **2.8.1: Ignitable and Reactive Waste Precautions** | (9) ensure that each permitted unit's fire suppression system is compatible with the hazardous waste being stored or treated at the permitted unit. | Y | Verified fire suppression systems were adequate for wastes stored. |
| **2.8.1: Ignitable and Reactive Waste Precautions** | The Permittees shall assume that all drums with volume capacities between 55 and 110 gallons that hold mixed transuranic wastes and that are not vented, and standard waste boxes that hold mixed transuranic waste and are not vented, contain hydrogen gas and the | Y | Verified all mixed transuranic (MTRU) drums are vented. |

| Permit Condition Section | Permit Language | Compliance (Y/N/NA) | Compliance Notes |
|---|---|---|---|
| | associated wastes are subject to the conditions of this Permit Section (2.8.1). | | |
| **2.8.2: Incompatible Waste Precautions** | The Permittees shall ensure that a storage container holding a hazardous waste that is incompatible with any waste or other materials stored nearby in other containers must be separated from the other materials (or waste) or is protected from them by means of a dike, berm, wall, or other device not to include the container, in order to, in the event of leakage from containers under conditions normally incident to storage, prevent the commingling of the incompatible wastes or materials (see 40 CFR § 264.177(c)). | Y | See parent note for PC 2.8 above. |
| **2.8.2: Incompatible Waste Precautions** | The Permittees shall ensure that incompatible wastes or materials are not stored within or on the same secondary containment structure. | Y | See parent note for PC 2.8 above. |
| **2.8.2: Incompatible Waste Precautions** | The Permittees shall ensure that incompatible wastes or materials are not stored so that a release or spill of these wastes might commingle in a fire suppression water holding area or tank. | Y | All wastes containers and containment systems were evaluated to ensure no incompatible wastes would commingle in fire suppression water holding area or tank. |
| **2.8.2: Incompatible Waste Precautions** | The Permittees shall ensure that all waste and materials are segregated and stored in accordance with the Department of Transportation's (DOT) compatibility groupings or classes contained in 49 CFR § 177.848 (see 40 CFR § 270.32(b)(2)). | Y | See parent note for PC 2.8 above. |
| **2.8.2: Incompatible Waste Precautions** | The Permittees shall not store cyanides and cyanide mixtures or solutions with acids if a mixture of the materials could generate hydrogen cyanide. The Permittees shall not store Class 8 (corrosive) liquids above or adjacent to Class 4 (flammable) or Class 5 (oxidizing) wastes except when it is known that the mixture of the wastes could not cause a fire or a dangerous evolution of heat or gas. | Y | Verified that cyanides are segregated from acids. |
| **2.8.2: Incompatible Waste Precautions** | The Permittees shall ensure that hazardous wastes are not placed in an unwashed container (see 40 CFR § 264.177(b)) or tank (see 40 CFR § 264.199(b)) that previously held an incompatible waste or material. | Y | All containers are either new or washed. |

| Permit Condition Section | Permit Language | Compliance (Y/N/NA) | Compliance Notes |
|---|---|---|---|
| **2.9: WASTE MINIMIZATION PROGRAM** | The Permittees shall implement and maintain a waste minimization program to reduce the volume and toxicity of hazardous wastes generated at the Facility (see 40 CFR § 264.73(b)(9)). The waste minimization program shall include proposed, practicable methods of treatment and storage currently available to the Permittees to minimize the present and future threat to human health and the environment. The Waste Minimization Program shall include the following items: | Y | Reviewed 2020 Hazardous Waste Minimization Report (HWMR) to verify compliance (LANL 2020e). |
| **2.9: WASTE MINIMIZATION PROGRAM** | (1) written policies or statements that outline goals, objectives, and methods for source reduction and recycling of hazardous waste at the Facility; | Y | Goals defined in section 2.1 of HWMR. |
| **2.9: WASTE MINIMIZATION PROGRAM** | (2) employee training or incentive programs designed to identify and implement source reduction and recycling opportunities for all hazardous wastes; | Y | Employee training and incentive programs are defined in section 2.2 of HWMR. |
| **2.9: WASTE MINIMIZATION PROGRAM** | (3) source reduction or recycling measures implemented in the last five years or planned for the next federal fiscal year; | Y | Defined in section 2.4 of HWMR. |
| **2.9: WASTE MINIMIZATION PROGRAM** | (4) estimated dollar amounts of capital expenditures and operating costs devoted to source reduction and recycling of hazardous waste; | Y | Defined in section 2.4 of HWMR. |
| **2.9: WASTE MINIMIZATION PROGRAM** | (5) factors which have prevented implementation of source reduction or recycling; | Y | Barriers to hazardous waste minimization included in section 3.5 of HWMR. |
| **2.9: WASTE MINIMIZATION PROGRAM** | (6) summary of additional waste minimization efforts that could be implemented at the Facility that analyzes the potential for reducing the quantity and toxicity of each waste stream through production process changes, production reformulations, recycling, and all other appropriate means including an assessment of the technical feasibility, cost, and potential waste reduction for each option; | Y | Included in each individual waste stream section of HWMR. |

| Permit Condition Section | Permit Language | Compliance (Y/N/NA) | Compliance Notes |
|---|---|---|---|
| **2.9: WASTE MINIMIZATION PROGRAM** | (7) flow charts and/or tables summarizing all hazardous waste streams produced by the Facility by quantity, type, building or area, and program; and | Y | Included in each individual waste stream section of HWMR. |
| **2.9: WASTE MINIMIZATION PROGRAM** | (8) demonstration of the need to use those processes which produce a particular hazardous waste due to a lack of alternative processes, available technology, or available alternative processes that would produce less volume or less toxic waste | Y | Included in each individual waste stream section of HWMR. |
| **2.10.5: Arrangements with Local Authorities** | The Permittees shall maintain its preparedness and prevention agreement with the Los Alamos County Emergency Services Division and support agreements with the Los Alamos Fire Department, the Los Alamos Police Department, and the Los Alamos Medical Center (see 40 CFR § 264.37). | Y | Memorandum of understanding between LANL and the Los Alamos Fire Department, the Los Alamos Police Department), and the Los Alamos Medical Center were provided to the review team for review. |
| **2.10.5: Arrangements with Local Authorities** | The Permittees shall provide the Chief of the Los Alamos Fire Department (LAFD) with information that would ensure that emergency response personnel are at all times familiar with the potential hazards in performing their duties associated with the hazardous wastes at LANL's permitted hazardous waste management units. This information shall be specific to each permitted unit and at a minimum include: | Y | See parent comment for 2.10.5 above. |
| **2.10.5: Arrangements with Local Authorities** | (1) Waste types, e.g., ignitable, reactive, corrosive; | Y | See parent comment for 2.10.5 above. |
| **2.10.5: Arrangements with Local Authorities** | (2) Waste names that identify principle hazardous chemical constituents; | Y | See parent comment for 2.10.5 above. |
| **2.10.5: Arrangements with Local Authorities** | (3) Approximate quantities of each waste type; and | Y | See parent comment for 2.10.5 above. |
| **2.10.5: Arrangements with Local Authorities** | (4) General location of waste types. | Y | See parent comment for 2.10.5 above. |

| Permit Condition Section | Permit Language | Compliance (Y/N/NA) | Compliance Notes |
|---|---|---|---|
| **2.10.5: Arrangements with Local Authorities** | The Permittees' Security and Emergency Operations Division Leader and Security and Emergency Operations: Emergency Management Group Leader shall annually sign a certification stating that the LAFD has been provided with this information to the satisfaction of the Chief of the LAFD. These certification statements shall be maintained in the Facility Operating Record. | Y | See parent comment for 2.10.5 above. |
| **2.11.1: Implementation of Contingency Plan** | The Permittees shall immediately implement Attachment D (Contingency Plan) whenever there is an incident (such as a fire, an explosion, or any unplanned sudden or non-sudden release of hazardous waste or hazardous constituents) at a permitted unit that threatens human health or the environment (see 40 CFR § 264.51(b)).<br>The Contingency Plan shall be implemented immediately and without consideration to potential threat to human health and the environment if any of the following hazards occur at a permitted unit: | NA | Contingency plan has never been implemented. |
| **2.11.1: Implementation of Contingency Plan** | (1) release of a hazardous waste: | NA | Contingency plan has never been implemented. |
| **2.11.1: Implementation of Contingency Plan** | a. that cannot be contained with secondary containment or application of sorbents; | NA | Contingency plan has never been implemented. |
| **2.11.1: Implementation of Contingency Plan** | b. of inflammable material creating a fire or explosion hazard; or | NA | Contingency plan has never been implemented. |
| **2.11.1: Implementation of Contingency Plan** | c. that results in toxic fumes; | NA | Contingency plan has never been implemented. |
| **2.11.1: Implementation of Contingency Plan** | (2) explosion: | NA | Contingency plan has never been implemented. |
| **2.11.1: Implementation of Contingency Plan** | a. if an unplanned explosion involving hazardous waste occurs; or | NA | Contingency plan has never been implemented. |

| Permit Condition Section | Permit Language | Compliance (Y/N/NA) | Compliance Notes |
|---|---|---|---|
| **2.11.1: Implementation of Contingency Plan** | b. if an imminent danger of an explosion involving hazardous waste exists; | NA | Contingency plan has never been implemented. |
| **2.11.1: Implementation of Contingency Plan** | (3) fire: | NA | Contingency plan has never been implemented. |
| **2.11.1: Implementation of Contingency Plan** | a. if a fire involving hazardous waste occurs; or | NA | Contingency plan has never been implemented. |
| **2.11.1: Implementation of Contingency Plan** | b. if any building, grass, forest, or non-hazardous waste fire exists that threatens to volatilize, react, or ignite hazardous waste. | NA | Contingency plan has never been implemented. |
| **2.11.1: Implementation of Contingency Plan** | The Permittees shall ensure that an adequate number of trained emergency response personnel are available at all times, including but not limited to, holidays, nights, and weekends. | NA | Contingency plan has never been implemented. |
| **2.11.2: Content of the Contingency Plan** | The Permittees shall maintain the Contingency Plan to ensure that it at all times includes the following for each permitted unit: | Y | Individual contingency plans were reviewed at each permitted unit. |
| **2.11.2: Content of the Contingency Plan** | (1) a description of the actions Facility personnel shall take to respond to fires, explosions, or any unplanned sudden or non-sudden release of hazardous waste or hazardous constituents to air, soil, and surface water at a permitted unit; | Y | Individual contingency plans were reviewed at each permitted unit. |
| **2.11.2: Content of the Contingency Plan** | (2) a description of all arrangements agreed upon by local police and fire departments, hospitals, federal, state, and local emergency response teams, and tribal governments to coordinate emergency services; | Y | Individual contingency plans were reviewed at each permitted unit. |
| **2.11.2: Content of the Contingency Plan** | (3) a description of all contracts with emergency response contractors and equipment suppliers; | Y | Individual contingency plans were reviewed at each permitted unit. |

| Permit Condition Section | Permit Language | Compliance (Y/N/NA) | Compliance Notes |
|---|---|---|---|
| **2.11.2: Content of the Contingency Plan** | (4) the names and phone numbers (i.e., office, home, cell, pager) of a primary and alternate individual assigned to act as Emergency Manager; | Y | Individual contingency plans were reviewed at each permitted unit. |
| **2.11.2: Content of the Contingency Plan** | (5) a list of all on-site emergency equipment associated with each permitted unit including fire control, spill control, communication, decontamination, and personal protective equipment including a description of where this equipment is located, and a physical description of each item; and | Y | Individual contingency plans were reviewed at each permitted unit. |
| **2.11.2: Content of the Contingency Plan** | (6) an evacuation plan, including a description of the signal(s) to be used to begin evacuation as well as primary and alternate evacuation routes, for personnel at a permitted unit where there is a possibility that evacuation may be necessary. | Y | Individual contingency plans were reviewed at each permitted unit. |
| **2.11.3: Distribution** | The Permittees shall maintain copies of the Contingency Plan, including all revisions and amendments, at or in the following locations: | Y | Individual contingency plans were reviewed at each permitted unit. |
| **2.11.3: Distribution** | (1) each permitted unit; | Y | Individual contingency plans were reviewed at each permitted unit. |
| **2.11.3: Distribution** | (2) the Emergency Management and Response Office; and | Y | Contingency plan distributed (EPC-DO-20- 359) on 06 November 2020 (LANL 2020f). |
| **2.11.3: Distribution** | (3) the Facility Operating Record. | Y | Contingency plan part of FOR. |
| **2.11.3: Distribution** | The Permittees shall distribute copies of the current Contingency Plan to all entities with which the Permittees have emergency Memorandums of Understanding or Mutual Assistance Agreements, including: | Y | See sub notes below |
| **2.11.3: Distribution** | (4) the Los Alamos County Emergency Management Coordinator; | | Contingency plan distributed (EPC-DO-20-360) on 06 November 2020 (LANL 2020g). |

| Permit Condition Section | Permit Language | Compliance (Y/N/NA) | Compliance Notes |
|---|---|---|---|
| **2.11.3: Distribution** | (5) the Los Alamos Fire Department; | | Contingency plan distributed (EPC-DO-20-360) on 06 November 2020 (LANL 2020g). |
| **2.11.3: Distribution** | (6) the Los Alamos County Police Department; and | | Contingency plan distributed (EPC-DO-20-360) on 06 November 2020 (LANL 2020g). |
| **2.11.3: Distribution** | (7) the Los Alamos Medical Center. | | Contingency plan distributed (EPC-DO-20-360) on 06 November 2020 (LANL 2020g). |
| **2.11.3: Distribution** | The Permittees shall also distribute copies of the current Contingency Plan to the State of New Mexico's Department of Homeland Security and Emergency Management (DHSEM) Area 3 Emergency Coordinator. | | Contingency plan distributed (EPC-DO-20-366) on 06 November 2020 (LANL 2020h). |
| **2.11.3: Distribution** | The Permittees shall distribute the Contingency Plan within ten days of the effective date of this Permit and within ten days of receipt of any Department approval to a modification of the Contingency Plan. The Permittees shall ensure that all copies of the Contingency Plan distributed outside the Facility are sent by certified mail with a return receipt, or by an equivalent method, to ensure distribution. A record of compliance with this requirement shall be maintained in the Facility Operating Record (see 40 CFR § 270.32(b)(2)). | Y | Facility maintains records of distribution of contingency plan and verified proof of distribution (LANL 2020i). |
| **2.11.3: Distribution** | The Permittees shall ensure that evacuation routes for a permitted unit are prominently posted at each permitted unit (see 40 CFR § 270.32(b)(2)). | Y | Evacuation routes reviewed at each permitted unit. |
| **2.11.4: Amendments to Plan** | Pursuant to 40 CFR § 264.54, which is incorporated herein by reference, the Permittees shall review the Contingency Plan and amend the Plan, if necessary, whenever: | Y | Contingency plan verified as up to date. |

| Permit Condition Section | Permit Language | Compliance (Y/N/NA) | Compliance Notes |
|---|---|---|---|
| **2.11.4: Amendments to Plan** | (1) this Permit is revised; | Y | Contingency plan verified as up to date. |
| **2.11.4: Amendments to Plan** | (2) the Permittees' Emergency Management Plan is revised; | Y | Contingency plan verified as up to date. |
| **2.11.4: Amendments to Plan** | (3) a Building Emergency Plan for a building which houses a permitted unit is changed and that change is contrary to a requirement in the Contingency Plan; | Y | Contingency plan verified as up to date. |
| **2.11.4: Amendments to Plan** | (4) the Contingency Plan fails during a drill or an emergency; | Y | Contingency plan verified as up to date. |
| **2.11.4: Amendments to Plan** | (5) the Permittees modify a permitted unit in either its design, construction, operation, maintenance, or other circumstances in a manner that increases the potential for fires, explosions, or releases of hazardous wastes or hazardous waste constituents; | Y | Contingency plan verified as up to date. |
| **2.11.4: Amendments to Plan** | (6) the permitted unit design or operation affects the emergency response; | Y | Contingency plan verified as up to date. |
| **2.11.4: Amendments to Plan** | (7) the Permittees modify the list of Emergency Managers; | Y | Contingency plan verified as up to date. |
| **2.11.4: Amendments to Plan** | (8) the Permittees modify the list of emergency response equipment; or | Y | Contingency plan verified as up to date. |
| **2.11.4: Amendments to Plan** | (9) the Permittees review and evaluate their emergency response resources and capabilities with respect to hazardous waste management and find deficiencies. | Y | Contingency plan verified as up to date. |
| **2.11.4: Amendments to Plan** | The Permittees shall ensure that all amendments to the Contingency Plan adhere to the permit modification requirements at 40 CFR §§ 270.41 through 270.43, which are incorporated herein by reference, including the modification classifications at 40 CFR § 270.42 Appendix 1, Category B.6, which is incorporated herein by reference. | Y | Reviewed approved November 2020 Contingency Plan (NMED 2020). |
| **2.11.4: Amendments to Plan** | The Permittees shall ensure that all primary and alternate Emergency Managers listed in Attachment D (Contingency Plan), Section D.1.1, review the Contingency Plan at a minimum annually and log each review in the Facility Operating Record (see 40 CFR § 270.32(b)(2)). | Y | Reviewed approved November 2020 Contingency Plan (NMED 2020). |

| Permit Condition Section | Permit Language | Compliance (Y/N/NA) | Compliance Notes |
|---|---|---|---|
| **2.11.5: Emergency Manager** | The Permittees shall designate an Emergency Manager or Incident Commander equivalent to the Emergency Coordinator required at 40 CFR § 264.55, which is incorporated herein by reference, who shall be responsible for coordinating all emergency response measures related to the management of hazardous wastes. An Emergency Manager shall be on call at all times, be familiar with the Contingency Plan, and shall have the authority to commit promptly the personnel and financial resources needed to implement the Contingency Plan (see 40 CFR § 264.55). | Y | Reviewed approved November 2020 Contingency Plan (NMED 2020). |
| **2.11.5: Emergency Manager** | The Permittees shall notify the Department in writing of changes to the personnel designated as Emergency Managers and referenced in Attachment D (Contingency Plan), Section D.1.1, and their telephone numbers. This notification shall be a Class 1 permit modification. | Y | Reviewed approved November 2020 Contingency Plan (NMED 2020). |
| **2.11.6.2: Release, Fire, or Explosion** | In the event of an imminent or actual emergency situation, building or area personnel shall immediately activate the internal facility alarm or communication systems to notify all potentially affected facility personnel. The Emergency Manager shall ensure that the appropriate federal, tribal, state, and local agencies with designated response roles are notified and shall implement the other requirements specified in 40 CFR § 264.56, which is incorporated herein by reference, and the Contingency Plan. The Permittees shall ensure that one individual shall be named Incident Commander and others shall be identified in the order that they will assume that responsibility as alternates to the Incident Commander. | NA | No record of imminent or actual emergency situation onsite. |
| **2.11.6.2: Release, Fire, or Explosion** | The Emergency Manager shall, in the event of a fire, explosion, or release of hazardous waste or constituents: | NA | No record of imminent or actual emergency situation onsite. |
| **2.11.6.2: Release, Fire, or Explosion** | (1) as soon as practicable, identify the character source, amount, and areal extent of any released materials by observation, review of facility records, or by chemical analysis (see 40 CFR § 264.56(b)); and | NA | No record of imminent or actual emergency situation onsite. |
| **2.11.6.2: Release, Fire, or Explosion** | (2) assess possible hazards to human health or the environment that may result from the release, fire, or explosion including both direct and indirect effects of the release, fire, or explosion (e.g., the effects of any toxic, irritating, or asphyxiating gases that are generated, or the effects of any hazardous surface water run-off from water or chemical agents used to control fire and heat induced explosions) (see 40 CFR § 264.56(c)). | NA | No record of imminent or actual emergency situation onsite. |
| **2.11.6.3: Reporting Findings** | In the event that the Emergency Manager determines that there has been a release, fire, or explosion that may threaten human health or | NA | No record of imminent or actual emergency situation onsite. |

| Permit Condition Section | Permit Language | Compliance (Y/N/NA) | Compliance Notes |
|---|---|---|---|
| | the environment outside the boundaries of the Facility, he or she shall report the findings as follows: | | |
| **2.11.6.3: Reporting Findings** | (1) if an assessment indicates that evacuation of local areas may be advisable, he or she shall immediately notify the appropriate local and tribal authorities and shall be available to assist appropriate officials in deciding whether local areas should be evacuated (see 40 CFR § 264.56(d)(1)); and | NA | No record of imminent or actual emergency situation onsite. |
| **2.11.6.3: Reporting Findings** | (2) immediately notify either the government official designated as the on-scene coordinator for that geographical area, the New Mexico Department of Public Safety dispatcher (505-827-9329), or the 24-hour National Response Center (800-424-8802) (see 40 CFR § 264.56(d)(2)). This notification shall include: | NA | No record of imminent or actual emergency situation onsite. |
| **2.11.6.3: Reporting Findings** | a. the name and telephone number of the person reporting the incident; | NA | No record of imminent or actual emergency situation onsite. |
| **2.11.6.3: Reporting Findings** | b. the specific Facility location where the incident occurred; | NA | No record of imminent or actual emergency situation onsite. |
| **2.11.6.3: Reporting Findings** | c. the time and type of incident; | NA | No record of imminent or actual emergency situation onsite. |
| **2.11.6.3: Reporting Findings** | d. the name and quantities, to the extent known, of materials involved; | NA | No record of imminent or actual emergency situation onsite. |
| **2.11.6.3: Reporting Findings** | e. the extent of any injuries, if any; and | NA | No record of imminent or actual emergency situation onsite. |
| **2.11.6.3: Reporting Findings** | f. the possible hazards to human health and the environment outside the Facility. | NA | No record of imminent or actual emergency situation onsite. |
| **2.11.6.4: Mitigative Measures** | When the Contingency Plan is implemented under Permit Section 2.11.1, the Emergency Manager shall take all reasonable measures necessary to ensure that fires, explosions, and releases do not occur, recur, or spread to other hazardous wastes at the facility. These measures shall include, where applicable, stopping processes and operations, collecting and containing released wastes, and removing or isolating containers (see 40 CFR § 264.56(e)). | NA | No record of imminent or actual emergency situation onsite. |
| **2.11.6.4: Mitigative Measures** | When the Contingency Plan is implemented under Permit Section 2.11.1, the Emergency Manager shall take all reasonable measures necessary to ensure that fires, explosions, and releases do not occur, recur, or spread to other hazardous wastes at the facility. These | NA | No record of imminent or actual emergency situation onsite. |

| Permit Condition Section | Permit Language | Compliance (Y/N/NA) | Compliance Notes |
|---|---|---|---|
| | measures shall include, where applicable, stopping processes and operations, collecting and containing released wastes, and removing or isolating containers (see 40 CFR § 264.56(e)). | | |
| **2.11.6.5: Monitoring** | When the Contingency Plan is implemented under Permit Section 2.11.1, the Emergency Manager shall utilize available air monitoring resources, as appropriate, to measure and characterize any air emissions both inside and outside the Facility boundary caused by a fire, explosion, or release to the atmosphere (see 40 CFR § 270.32(b)(2)). | NA | No record of imminent or actual emergency situation onsite. |
| **2.11.6.5: Monitoring** | In the event that the Facility stops operations in response to a fire, release, or explosion, the Emergency Manager shall monitor for leaks, pressure buildup, gas generation, or ruptures in valves, pipes, or other equipment as appropriate (see 40 CFR § 264.56(f)). | NA | No record of imminent or actual emergency situation onsite. |
| **2.11.7: Post- emergency Procedures** | Immediately after an emergency in which the Contingency Plan was implemented, the Emergency Manager shall provide for the treatment, storage, or disposal of recovered wastes, contaminated soils or surface water, or any other material or contaminated environmental media that resulted from the fire, explosion, or release at the Facility (see 40 CFR § 264.56(g)). | NA | No record of imminent or actual emergency situation onsite. |
| **2.11.7: Post- emergency Procedures** | The Emergency Manager shall ensure that in the affected areas of the Facility: | NA | No record of imminent or actual emergency situation onsite. |
| **2.11.7: Post- emergency Procedures** | (1) no waste that may be incompatible with the released material is treated, stored, or disposed of in the impacted area until cleanup procedures are completed; and | NA | No record of imminent or actual emergency situation onsite. |
| **2.11.7: Post-Emergency Procedures** | (2) all emergency equipment listed in the Contingency Plan is cleaned and fit for its intended use before operations are resumed. | NA | No record of imminent or actual emergency situation onsite. |
| **2.11.8: Need for Further Corrective Action** | If, after implementation of the Contingency Plan in response to a release of a hazardous waste or hazardous constituent, the Department determines the spill has not been entirely remediated and that corrective action may be required to address the release, the Department may require the Permittees to conduct corrective action pursuant to Permit Part 11 (Corrective Action) (see Permit Section 11.3.5). | NA | No record of imminent or actual emergency situation onsite. |
| **2.11.9: Notification and Record Keeping** | The Permittees shall notify the Department of implementation of the Contingency Plan in compliance with Permit Section 1.9.12 (see 40 CFR § 264.56(i)). | NA | No record of imminent or actual emergency situation onsite. |

| Permit Condition Section | Permit Language | Compliance (Y/N/NA) | Compliance Notes |
|---|---|---|---|
| **2.11.9: Notification and Record Keeping** | The Permittees shall notify the Department, local authorities, and tribal governments before operations resume in the Facility's affected areas that the Facility is in compliance with Permit Section 2.11.7 (see 40 CFR § 270.32(b)(2)). | NA | No record of imminent or actual emergency situation onsite. |
| **2.12: RECORDKEEPING AND REPORTING** | The Permittees shall comply with the recordkeeping and reporting requirements specified throughout this Permit and at 40 CFR § 264.73, which is incorporated herein by reference. | Y | Compliance with this section was evaluated in each individual recordkeeping and reporting section. |
| **2.12.1: Manifest Systems** | The Permittees shall comply with the recordkeeping and reporting requirements associated with manifests in accordance with 40 CFR §§ 264.71, 264.72, and 264.76, which are incorporated herein by reference, whenever a shipment of hazardous waste is either received at, or initiated from, the Facility. | Y | Facility maintains all waste manifest from shipping HW offsite. |
| **2.12.2: Facility Operating Record** | The Permittees shall maintain a written Facility Operating Record for the operations of each permitted unit at the Facility until the Department has approved either the closure certification statement or, if the unit enters post-closure care, the post-closure certification statement with respect to such unit as specified in Permit Sections 9.5 and 10.2.3 respectively (see 20.4.1.500 and 501 NMAC). For documents that address the entire Facility (e.g., certifications of a Facility program to reduce the volume and toxicity of hazardous waste), the Permittees shall maintain these documents throughout the active life of the Facility including the post-closure care period. | Y | Permittees maintain facility operating record for each permitted unit at the facility. |
| **2.12.2: Facility Operating Record** | Unless specifically prohibited by this Permit, an electronic record in a format acceptable to the Department and capable of producing a paper copy shall be deemed to be a written record (see 40 CFR § 270.32(b)(2)). Any substantive alterations made to the electronic record shall be documented, dated, and made part of the Facility Operating Record. | Y | Permittees maintain facility operating record for each permitted unit at the facility. |
| **2.12.2: Facility Operating Record** | The Permittees shall incorporate, as soon as it becomes available, into the Facility Operating Record the following information: | Y | Permittees maintain facility operating record for each permitted unit at the facility. |
| **2.12.2: Facility Operating Record** | (1) a description of the hazardous waste received and the methods and dates of treatment and storage at each permitted unit in accordance with Appendix I of 40 CFR Part 264, which is incorporated herein by reference; | Y | Inventory record for a representative sample of waste verified at each permitted unit. |

| Permit Condition Section | Permit Language | Compliance (Y/N/NA) | Compliance Notes |
|---|---|---|---|
| **2.12.2: Facility Operating Record** | (2) the location of each type of hazardous waste within each permitted unit and the total quantity of all wastes and waste types at each unit (the location shall be identified as one of the permitted units listed in Attachment J (Hazardous Waste Management Units) and any associated structure (e.g., room, dome)); | Y | Inventory record for a representative sample of waste verified at each permitted unit. |
| **2.12.2: Facility Operating Record** | (3) records and results of waste analyses and waste determinations that are performed pursuant to Permit Section 2.4, Attachment C (Waste Analysis Plan), and 40 CFR §§ 264.1083, 268.7, and 268.9, which are incorporated herein by reference; | Y | All waste analysis and waste determinations are maintained on WCATS, where a representative sample were verified from each permitted unit. |
| **2.12.2: Facility Operating Record** | (4) incident reports and details of all incidents that required the implementation of Attachment D (Contingency Plan), any instance of fire, explosion, spill, or release from, or at, a permitted unit regardless of whether the incident required implementation of the Contingency Plan or Permit Part 11 (see 40 CFR § 270.32(b)(2)); | NA | Contingency plan has never been implemented. |
| **2.12.2: Facility Operating Record** | (5) records and results of inspections as required in Permit Section 2.6 and Attachment E (Inspection Plan); | Y | Inspections records were reviewed for each permitted facility. |
| **2.12.2: Facility Operating Record** | (6) monitoring, testing, analytical data, and response actions when required by 40 CFR §§ 264.191, 264.193, 264.195, 264.602, 264.1063(d) through 264.1063(i), 264.1064, and 264.1082 through 264.1090, which are incorporated herein by reference; | Y | Inspections records were reviewed for each permitted facility. |
| **2.12.2: Facility Operating Record** | (7) notices to off-site generators as specified in 40 CFR § 264.12(b), which is incorporated herein by reference; | NA | LANL does not receive wastes from off-site generators. |
| **2.12.2: Facility Operating Record** | (8) (reserved); | NA | |
| **2.12.2: Facility Operating Record** | (9) an annual certification stating a Facility program is in place to reduce the volume and toxicity of hazardous waste generated; | Y | Reviewed 2020 Hazardous Waste Minimization Report (HWMR) to verify compliance (LANL 2020e). |
| **2.12.2: Facility Operating Record** | (10) for treated wastes, the information contained in the notice and certification required under 40 CFR § 268.7(b), which is incorporated herein by reference; | Y | Verified that wastes are tested in accordance with Waste Analysis Plan. |
| **2.12.2: Facility Operating Record** | (11) if applicable, for hazardous wastes left in the ground after closure (i.e., disposal units), the information required of a treatment facility under 40 CFR § 268.7(b), which is incorporated herein by reference; | Y | Verified that wastes are tested in accordance with Waste Analysis Plan. |

| Permit Condition Section | Permit Language | Compliance (Y/N/NA) | Compliance Notes |
|---|---|---|---|
| **2.12.2: Facility Operating Record** | (12) for stored wastes, the notice (or information contained in the notice for wastes generated on-site) and certification required at 40 CFR § 268.7, which is incorporated herein by reference; | Y | Verified that wastes are tested in accordance with Waste Analysis Plan. |
| **2.12.2: Facility Operating Record** | (13) all monitoring reports and records required by this Permit, including but not limited to: | Y | Verified that all monitoring reports and records required by this permit were in Facility Operating Record. |
| **2.12.2: Facility Operating Record** | a. records of all monitoring data used to complete Permit Application(s); | Y | See parent comment for 2.12.2 above. |
| **2.12.2: Facility Operating Record** | b. all data gathered or generated during the closure or post-closure process; and | Y | See parent comment for 2.12.2 above. |
| **2.12.2: Facility Operating Record** | c. all laboratory reports, drilling logs, bench-scale or pilot scale data; | Y | See parent comment for 2.12.2 above. |
| **2.12.2: Facility Operating Record** | (14) documentation demonstrating distribution of the Contingency Plan in accordance with Permit Section 2.11.3; | Y | See parent comments for section 2.11.3 |
| **2.12.2: Facility Operating Record** | (15) documentation demonstrating the installation and maintenance of secondary containment system coatings or sealants as required at Permit Section 3.7.1(4) and 4.4(4); | Y | Verified all secondary containment systems documentation. |
| **2.12.2: Facility Operating Record** | (16) personnel training records including both introductory and continuing training programs used to prepare employees to safely operate and maintain a permitted unit in compliance with 40 CFR § 264.16(d), which is incorporated herein by reference, and this Permit; | Y | Training records maintained on Utrain. |
| **2.12.2: Facility Operating Record** | (17) documentation of notifications and trainings associated with alternate emergency equipment as required at Permit Section 2.10.2; and | Y | Training records maintained on Utrain. |
| **2.12.2: Facility Operating Record** | (18) documentation of all instances where an indoor fire suppression system has been activated resulting in fire suppressants contacting a waste storage pad. | NA | No recent record of implementation of indoor fire suppression system. |
| **2.12.3 Availability of Facility Operating Record** | The Permittees shall furnish and make reasonably available for inspection, upon request by any officer, employee, or representative of the Department, the Facility Operating Record and all other records required under 40 CFR Part 264 or this Permit (see 40 CFR § 264.74(a) and pursuant to 74-4-4.3 NMSA 1978). Information and records requested by the Department pursuant to this condition shall | Y | All records were available for review. |

| Permit Condition Section | Permit Language | Compliance (Y/N/NA) | Compliance Notes |
|---|---|---|---|
| | be made available for inspection in a paper or electronic format, or both, as specified by the Department (see 40 CFR § 270.32(b)(2)). | | |
| **2.12.4: Record Retention** | The Permittees shall retain all records required by this Permit during the course of any unresolved enforcement action regarding the Facility or as required by the Department (see 40 CFR § 264.74(b)). | NA | Did not review |
| **2.12.5: Biennial Report** | The Permittees shall submit a biennial report, which includes all of the information specified in 40 CFR § 264.75, which is incorporated herein by reference, to the Department by March 1 of each even numbered year. | Y | Biennial report submitted for 2019 (LANL 2020a). |
| **Permit Section 3** | | | |
| **3.1: GENERAL CONDITIONS** | (1) The Permittees shall store and otherwise manage containers of hazardous waste in accordance with 40 CFR Part 264, Subpart I, which is incorporated herein by reference, and Attachment A (Technical Area Unit Descriptions). | Y | Verified during on-site review that containers were stored in accordance with site-specific information in Attachment A and Subpart I: Use and Management of Containers. |
| **3.1: GENERAL CONDITIONS** | (2) The Permittees shall only store hazardous waste containers at the permitted units identified as utilizing waste process code S01 and specified in Attachment J (Hazardous Waste Management Units), Table J-1 (Active Portion of the Facility). The Permittees are authorized to store only those wastes identified by EPA Hazardous Waste Numbers (waste codes) listed in Attachment B (Part A Application) and identified as utilizing waste process code S01. The Permittees shall not store containers of hazardous waste in excess of the maximum capacities for each permitted container storage unit (CSU) identified in Attachment J, Table J-1. However, for purposes of compliance with secondary containment requirements, the holding of a hazardous waste container within a permitted unit for a period not to exceed 24 hours, for transportation, treatment, characterization, or packaging, shall not be deemed storage. | Y | Verified wastes stored in accordance with permit application and in approved quantities. |
| **3.1: GENERAL CONDITIONS** | (3) The Permittees shall ensure that the figures in Attachment N (Figures) and in the closure plans in Attachment G accurately reflect the location of all buildings and structures, regardless of whether they manage hazardous waste, at hazardous waste management units. The Permittees may change the location of a building or structure at a hazardous waste management unit only in accordance with a Class 1 permit modification requirements at 40 CFR § 270.42(a). Any change to the location of a building or structure within which hazardous waste is managed shall be a Class 1 modification with prior approval of the | Y | Reviewed figures while reviewing on-site. |

| Permit Condition Section | Permit Language | Compliance (Y/N/NA) | Compliance Notes |
|---|---|---|---|
| | Department (see 40 CFR § 270.42(a)(2)). Any change to the location of a building or structure within which hazardous waste has not been managed shall be a Class 1 modification without prior approval (see 40 CFR § 270.42(a)(1)). | | |
| **3.2: CONDITION OF CONTAINERS** | The Permittees shall ensure that all containers used to store hazardous wastes subject to this Permit are in good condition (e.g., no severe rusting or apparent structural defects) in accordance with 40 CFR § 264.171, which is incorporated herein by reference. If a container is not in good condition or begins to leak, the Permittees shall transfer the waste from such a container into a container that is in good condition within 24 hours of discovery of the problem, and in accordance with 40 CFR § 264.171. | Y | All containers in permitted units verified as being in good condition. |
| **3.3: ACCEPTABLE STORAGE CONTAINERS** | The Permittees shall only use containers that comply with 40 CFR Part 264 Subpart I (Use and Management of Containers) for storage of hazardous waste at permitted units. Prior to shipment of hazardous waste, containers must comply with Department of Transportation (DOT) shipping container regulations (see 49 CFR § 173 - Shippers - General Requirements for Shipment and Packaging, and 49 CFR § 178 - Specifications for Packaging). | Y | All containers used to store wastes were compatible with 40 CFR Part 264 Subpart I. Containers staged for shipment complied with DOT requirements. |
| **3.3: ACCEPTABLE STORAGE CONTAINERS** | Solid, oversize items (e.g., glovebox, glovebox parts, vacuum pumps, tanks, duct work, piping, HEPA filters) contaminated with hazardous wastes that cannot be containerized in the waste containers referenced in the previous paragraph shall be subject to this Permit Part. These items shall be wrapped in plastic with a minimum of two layers of plastic to prevent dispersion of contaminating material. | NA | No waste oversize items stored at the facility. |
| **3.4: COMPATIBILITY OF WASTE WITH CONTAINERS** | The Permittees shall use containers made of, or lined with, materials that are compatible with and will not react with the hazardous waste to be stored, so that the ability of the container to contain the waste is not impaired (see 40 CFR § 264.172). | Y | All waste containers verified as compatible with material being stored. |
| **3.5: MANAGEMENT OF CONTAINERS** | (1) The Permittees shall ensure that all containers are kept closed during storage except when waste is added to or removed from the container or when a container's contents need to be repackaged (see 40 CFR § 264.173(a)). The Permittees shall not open, handle, or store a container holding hazardous waste in a manner that may rupture the container or cause the container to leak (see 40 CFR § 264.173(b)). | Y | Containers stored at site are always kept closed. |
| **3.5: MANAGEMENT OF CONTAINERS** | (2) The Permittees shall establish and maintain lines of demarcation which identify the boundaries of all permitted CSUs. The line may be identified by paint, tape, or other permanent, visible marking on the floor or base material (see 40 CFR § 270.32(b)(2)). Permanent fences | Y | Painted boundaries were reviewed while onsite. These boundaries are part of the weekly inspections. |

| Permit Condition Section | Permit Language | Compliance (Y/N/NA) | Compliance Notes |
|---|---|---|---|
| | marking the unit boundary, or rooms or buildings whose walls constitute the boundary of the permitted units, satisfy this requirement. | | |
| **3.5: MANAGEMENT OF CONTAINERS** | (3) The Permittees shall ensure that drums stored in movable buildings (e.g., modular buildings, transportainers) with non-grated floors are stored on wheeled drum dollies, steel pallets, or are otherwise elevated. | NA | No movable buildings used to store wastes. |
| **3.5: MANAGEMENT OF CONTAINERS** | (4) The Permittees shall ensure that when waste containers are moved during storage, the location of each hazardous waste and the quantity at each location is documented in accordance with Permit Section 2.12 (see 40 CFR § 264.73(b)(2)). | Y | Reviewers were provided with facility operating record, which they verified during walk through on a representative sample of drums. |
| **3.5.1: Storage Configuration and Minimum Aisle Space** | (1) The Permittees shall maintain adequate aisle space at all times to allow the unobstructed movement of personnel, fire protection equipment, spill control equipment, and decontamination equipment within the permitted units. Additionally, emergency egress aisles with a minimum aisle space of two feet must be maintained at all personnel doors (see 40 CFR § 264.35). | Y | Aisle spaces were reviewed during site walk through. |
| **3.5.1: Storage Configuration and Minimum Aisle Space** | (2) The Permittees are authorized to stack containers greater than or equal to 30 gallons of hazardous waste to no more than three containers high. Stacked containers of this volume shall be palletized, and each layer shall be bound together (see 40 CFR § 270.32(b)(2)). | Y | Stacked containers were reviewed during site walk through. |
| **3.5.1: Storage Configuration and Minimum Aisle Space** | (3) The Permittees shall ensure that hazardous waste containers stored outdoors are not stored within five feet of the perimeter (i.e., permitted unit boundary) fence, within five feet of any permanent structure, or within five feet of a paved or unpaved roadway. | Y | No outdoor storage at permitted areas were noted inside demarked storage areas and at distances greater than 5 feet for unit boundaries. |
| **3.5.1: Storage Configuration and Minimum Aisle Space** | (4) The Permittees shall store hazardous waste gas cylinders in cylinder racks, baskets, or on specially constructed pallets that provide support and restraint. | NA | No permitted storage of waste gas cylinders. |
| **3.5.1: Storage Configuration and Minimum Aisle Space** | (5) The Permittees shall ensure that hazardous waste containers that are stored outdoors and are not being actively managed are protected from contact with precipitation using weather protective equipment (e.g., containment shell, secured tarp) or are protected by the design of the equipment (e.g., transportainer, Transuranic Waste Package Transporter II container) (see 40 CFR § 270.32(b)(2)). | Y | Verified that containers stored outdoors are being protected using plastic cone shaped lids designed for the protective purpose. |
| **3.6: WASTE CONTAINER LABELING** | (1) The Permittees shall ensure that all containers storing hazardous waste have a “Hazardous Waste” label (see 40 CFR § 262.34(a)(3)) that lists the generator’s name, address, and EPA Identification number, the date the container was placed in storage at the permitted | Y | Verified a representative sample of containers at permitted storage areas had proper labels. |

| Permit Condition Section | Permit Language | Compliance (Y/N/NA) | Compliance Notes |
|---|---|---|---|
| | unit (see 40 CFR § 262.34(a)(2)), and all applicable EPA Hazardous Waste Number(s) (see 40 CFR § 268.50(a)(2)(i)). All containers holding mixed waste shall be labeled "Radioactive." Records for all containers will be maintained in accordance with Permit Section 2.12. | | |
| **3.6: WASTE CONTAINER LABELING** | (2) The Permittees shall ensure that containers holding free liquids have a "free liquids" label. The free liquids reference may be included on a label identifying other waste characteristics (see 40 CFR § 270.32(b)(2)). | Y | Verified a representative sample of containers at permitted storage areas had proper labels. |
| **3.7: CONTAINMENT SYSTEMS** | The Permittees shall store containers of hazardous waste in a manner that prevents contact with any accumulated liquids (see 40 CFR § 264.175(b)(2)). | Y | Verified that no containers are stored on the ground. |
| **3.7.1: Containers with Free Liquids** | (1) The Permittees shall maintain secondary containment systems in all permitted units used to store wastes which contain free liquids in compliance with 40 CFR § 264.175, which is incorporated herein by reference. The Permittees shall maintain controls to prevent run-on into the permitted unit. These controls shall consist of ground features such as berms and sloping. | N | Secondary containment systems in TA-54 were noted in observations as needing of repair. |
| **3.7.1: Containers with Free Liquids** | (2) The Permittees shall remove spilled or leaked waste and accumulated precipitation from sumps or secondary containment systems. If the sumps or secondary containment system are the sole means of secondary containment the Permittees must remove the spilled or leaked waste and/or accumulated precipitation in liquid form within 24 hours of detection or immediately if necessary to prevent overflow of the secondary containment system. Otherwise, the Permittees must remove the spilled or leaked waste and/or accumulated precipitation in any form in as timely a manner as is necessary to prevent overflow of the containment system and shall, while the system's capacity is diminished, measure the system daily to demonstrate that the system retains sufficient capacity to contain 10% of the volume of containers or the volume of the largest container holding free liquids, which ever is greater. (see 40 CFR §§ 264.175(b)(4) and (5)). The Permittees shall document this measurement in the Facility Operating Record. Requests for extension of time for any deadline under this subparagraph may be made by e-mail. | Y | No spilled or liquid wastes identified in sumps or secondary containment systems. |
| **3.7.1: Containers with Free Liquids** | (3) The Permittees shall maintain the base of secondary containment systems to ensure they are impervious in order to contain leaks, spills, and/or accumulated precipitation until the collected liquids are detected and removed. The Permittees shall ensure that the secondary | N | Secondary containment systems in TA-54 were noted in observations as needing of repair. |

| Permit Condition Section | Permit Language | Compliance (Y/N/NA) | Compliance Notes |
|---|---|---|---|
| | containment system have adequate structural strength to withstand the stresses of daily operations (see 40 CFR § 264.175(b)(1)). | | |
| **3.7.1: Containers with Free Liquids** | (4) If a coating or sealant is used as a component of a secondary containment system, the Permittees shall maintain documentation in the Facility Operating Record that the coating or sealant was applied and maintained in accordance with the manufacturer's specifications. This documentation shall include a copy of the manufacturer's specifications as well as a certification stating the Permittees' installation and maintenance procedures were in accordance with the manufacturer's specifications. If the base of the containment unit has expansion or construction joints, the Permittees shall install and maintain chemically resistant water stops, which are embedded in the concrete, or equivalent external systems (e.g. sealant systems) (see 40 CFR § 270.32(b)(2)). | N | Secondary containment sealants in TA-54 were noted as in need of repair during the on-site review. |
| **3.7.1: Containers with Free Liquids** | (5) If a flexible liner is used as a secondary containment system after July 1, 2014, the Permittees shall maintain documentation in the Facility Operating Record that the flexible liner was installed and maintained in accordance with the manufacturer's specifications. This documentation shall include a copy of the manufacturer's specifications as well as a certification stating that the Permittees' installation and maintenance procedures have been conducted in accordance with the manufacturer's specifications (see 40 CFR § 270.32(b)(2)). | Y | The flexible liner in TA-54 was verified as compliant during the on-site review. |
| **3.7.1: Containers with Free Liquids** | (6) Unless waste is removed or another form of secondary containment is provided, the Permittees shall repair any damage to a secondary containment system within 15 days of detecting the problem. The Permittees shall perform any concrete or asphalt repair using an appropriate repair method (e.g., ACI standards or manufacturer's recommendations), which will prevent future damage at the location (see 40 CFR §§ 264.15(c), 270.32(b)(2)). The Permittees shall apply coatings or sealants, if applicable, to the repaired area before waste storage activities resume. The Permittees must record any damage or repair to containment systems in the inspection logs required by Permit Section 2.6.3. | Y | Verified damaged to secondary containment requiring repair were addressed as required. |
| **3.7.1: Containers with Free Liquids** | (7) The Permittees shall ensure that the number of 55-gallon drums stored on a secondary containment pallet does not exceed the design capacity of the pallet. | Y | No exceedance of secondary containment pallets were noted during the on-site review. |
| **3.7.1: Containers with Free Liquids** | (8) The Permittees shall ensure that all metal secondary containment pallets have a chemically-resistant coating equivalent to urethane. The | Y | Metal secondary containment pallets were observed with |

| Permit Condition Section | Permit Language | Compliance (Y/N/NA) | Compliance Notes |
|---|---|---|---|
| | Permittees shall maintain the chemical-resistant coating in accordance with Permit Section 3.7.1 and the manufacturer's specifications. | | coatings during the on-site review. |
| **3.7.2: Containers without Free Liquids** | (1) For container storage areas that will store only wastes without free liquids (see Attachment J (Hazardous Wastes Management Units), Table J-1 (Active Portion of the Facility)), the Permittees shall ensure that: | Y | Verified as in compliance during on-site review. |
| **3.7.2: Containers without Free Liquids** | a. the storage areas are sloped or otherwise designed and operated to drain and remove liquid resulting from precipitation or other liquids (see 40 CFR § 264.175(c)(1)); or | Y | See parent note for PC 3.7.2 above. |
| **3.7.2: Containers without Free Liquids** | b. the containers are elevated or otherwise protected from contact with accumulated liquids (see 40 CFR § 264.175(c)(2)). | Y | See parent note for PC 3.7.2 above. |
| **3.7.2: Containers without Free Liquids** | (2) The Permittees shall comply with the secondary containment requirements for hazardous wastes that do not contain free liquids and have the following waste codes: F020, F021, F022, F023, F026 and F027 (see 40 CFR § 264.175(d)(1)). | Y | LANL does not store any wastes under these codes. |
| **3.8: INSPECTION SCHEDULES AND PROCEDURES** | (1) The Permittees shall inspect the permitted CSUs at least weekly for evidence of leaks or deterioration of the containment system by corrosion, cracking, differential settlement or other factors (see 40 CFR § 264.174). | Y | Inspection records were reviewed. A representative sample for CY20 and CY21 were reviewed. |
| **3.8: INSPECTION SCHEDULES AND PROCEDURES** | (2) The Permittees shall store containers in a manner that allows the containers to be inspected for leaks, corrosion, deterioration, and for container labels to be read without moving them (see 40 CFR §§ 264.174 and 270.32(b)(2)). | N | As noted in the review observations, a few containers were not stored in a manner that allowed for inspection. However, these were in non-permitted storage units. |
| **3.9: VOLATILE ORGANIC AIR EMISSIONS** | (1) The Permittees shall control air pollutant emissions from each hazardous waste container at a permitted unit in accordance with the applicable regulations in 40 CFR Part 264 Subpart CC. The Permittees shall also manage hazardous wastes subject to emission controls in accordance with Attachment E (Inspection Plan). | Y | Containers were evaluated to determine if emission systems were required. |
| **3.9: VOLATILE ORGANIC AIR EMISSIONS** | (2) The Permittees shall not be required to control air pollutant emissions from a container in accordance with the exemptions in 40 CFR §§ 264.1080(b)(1) through (8). | Y | All mixed waste containers are fitted with carbon filters and properly labeled. |
| **3.9: VOLATILE ORGANIC AIR EMISSIONS** | (3) If the Permittees claim an exemption from air pollution emission controls due to a container holding radioactive mixed waste, the Permittees shall clearly label the container in accordance with Permit Section 3.6. | Y | Containers were evaluated to determine if emission systems were required. |

| Permit Condition Section | Permit Language | Compliance (Y/N/NA) | Compliance Notes |
|---|---|---|---|
| **3.9: VOLATILE ORGANIC AIR EMISSIONS** | (4) A suitable method to control container air pollution emissions is the utilization of the container construction specifications and operation requirements specified in 40 CFR § 264.1086(b). This emission control method is met if the containers adhere to the following requirements: | Y | Containers were evaluated to determine if emission systems were required. |
| **3.9: VOLATILE ORGANIC AIR EMISSIONS** | a. the containers have a capacity of greater than 0.1 cubic meters and less than 0.46 cubic meters (approximately 119 gallons); | Y | See parent note for PC 3.9(4) above. |
| **3.9: VOLATILE ORGANIC AIR EMISSIONS** | b. the containers meet U.S. Department of Transportation (DOT) specifications under 49 CFR Part 178; | Y | See parent note for PC 3.9(4) above. |
| **3.9: VOLATILE ORGANIC AIR EMISSIONS** | c. the containers are kept closed during storage; and | Y | See parent note for PC 3.9(4) above. |
| **3.9: VOLATILE ORGANIC AIR EMISSIONS** | d. the containers are inspected weekly to ensure lids and openings are securely closed and there is no possibility of air emissions (see 40 CFR §§ 264.1086(c)(3) and (4)). | Y | See parent note for PC 3.9(4) above. |
| **3.9: VOLATILE ORGANIC AIR EMISSIONS** | (5) All containers that are not exempted under 40 CFR 264, Subpart CC, shall be subject to Container Level 1 requirements, except that the Permittees shall identify containers subject to Container Level 2 controls on a list in the Facility Operating Record. | Y | Containers were evaluated to determine if emission systems were required. |
| **3.9: VOLATILE ORGANIC AIR EMISSIONS** | (6) Containers may be opened for the purpose of adding or removing waste or as otherwise allowed at 40 CFR § 264.1086(c)(3), which is incorporated herein by reference. | Y | Containers were evaluated to determine if emission systems were required. |
| **3.9: VOLATILE ORGANIC AIR EMISSIONS** | (7) The Permittees shall characterize hazardous wastes subject to emission controls in accordance with Permit Section 2.4 (Waste Analysis) and Attachment C (Waste Analysis Plan). | Y | Containers were evaluated to determine if emission systems were required. |
| | | | |

### E.1.4.2 TA-3 Permitted Storage Unit

| Permit Condition Section | Language | Compliance (Y/N/NA) | Compliance Notes |
|---|---|---|---|
| **Permit Section 3** | | | |
| **3.10.1: General Operating Conditions** | The Permittees shall ensure that storage of hazardous or mixed waste in containers at TA-3-29 occurs only in the container storage unit (CSU) in Rooms 9010, and portions of Rooms 9020, and 9030 identified in Attachment A (Technical Area Unit Descriptions) and Attachment J (Hazardous Waste Management Units), Table J-1 (Active Portion of the Facility). | Y | There was no drum storage outside of permitted areas, SAAs, and CAAs at TA-3 |
| **3.10.2: Secondary Containment** | The Permittees shall paint the floors in Rooms 9010, 9020, and 9030 within the TA-3-29 permitted unit with an epoxy sealant. The sealant must be maintained in accordance with Permit Section 3.7.1 of this Part and the manufacturer's specifications. | Y | Sealant was evaluated during on-site assessment. Inspection records were reviewed to ensure epoxy sealant is checked at least weekly. |

### E.1.4.3 TA-50 Permitted Storage Unit

| Permit Condition Section | Permit Language | Compliance (Y/N/NA) | Compliance Notes |
|---|---|---|---|
| **Permit Section 3** | | | |
| **3.11.1: General Operating Conditions** | (1) The Permittees shall ensure that storage of hazardous or mixed waste in containers at TA-50 occurs only in two areas: 1) an indoor storage area located in Building 69 (TA-50-69), Rooms 102 and 103; and 2) an outdoor storage area (TA-50-69, Outdoor) located south/southeast of Building 69, comprised of an asphalt pad and modular transportainer units, as identified in Attachment A (Technical Area Unit Descriptions) and Attachment J (Hazardous Waste Management Units). | Y | Verified through on-site review of area. |
| **3.11.1: General Operating Conditions** | (2) The Permittees shall ensure that ignitable wastes will not be stored inside the glovebox located within the indoor permitted unit. | Y | Verified through on-site review of area. |

| Permit Condition Section | Permit Language | Compliance (Y/N/NA) | Compliance Notes |
|---|---|---|---|
| **3.11.1: General Operating Conditions** | (3) The Permittees shall at all times maintain a fire access lane between the TA-50-69 Outdoor and Indoor permitted units (see 40 CFR § 270.32(b)(2)). | Y | Verified that fire lane was delineated in paint and clear of any obstructions. |
| **3.11.2: Preventing Hazards in Loading/Unloading** | The Permittees shall not load or unload waste at TA-50 during severe weather conditions | Y | Verified waste handling procedures included restrictions during inclement weather. |
| **3.11.3: Preventing Run-on** | The Permittees shall prevent surface water run-on from contacting stored waste containers at the TA-50 permitted units. | Y | Waste containers were elevated to eliminate surface run-on. |
| **3.11.3: Preventing Run-on** | The Permittees shall annually inspect and when necessary maintain the drainage swales located south of the permitted unit between the permitted unit and Material Disposal Area (MDA) C, and located on the west side of the permitted unit between Pecos Drive and the TA-50 fence line, to ensure that potential run-on is directed away from the permitted units (see 40 CFR § 264.175(c)(1)). | Y | Drainage swales are inspected weekly, they are also inspected as part of the Multi-Sector General Permit. |
| **Permit Section 4** | | | |
| **4.6: TA-50 RADIOACTIVE LIQUID WASTE TREATMENT FACILITY** | The Permittees shall discharge all treated wastewater from the TA-50 Radioactive Liquid Waste Treatment Facility (RLWTF) through the outfall permitted under Section 402 of the federal Clean Water Act, or as otherwise authorized by the terms of an applicable Clean Water Act permit that regulates the treatment and use of wastewater. If the Permittees intentionally discharge through a location other than the permitted outfall or as otherwise authorized, they will fail to comply with this requirement, and as a consequence the wastewater treatment unit exemption under 40 CFR § 264.1(g)(6) will no longer apply to the RLWTF. The Permittees shall not accept listed hazardous wastes as specified at 40 CFR Part 261 Subpart D at the RLWTF. | Y | Verified through NPDES review of treatment unit. |

| Permit Condition Section | Permit Language | Compliance (Y/N/NA) | Compliance Notes |
|---|---|---|---|
| **Permit Section 7** | | | |
| **7.1: GENERAL CONDITIONS** | (1) The Permittees shall treat waste by stabilization in containers at TA-50-69 Indoor Permitted Unit in accordance with this Permit Part and the requirements of 40 CFR Part 264, Subpart I, which is incorporated herein by reference. | Y | Reviewed process with POC during on-site review. |
| **7.1: GENERAL CONDITIONS** | (2) The Permittees shall, in accordance with this Permit Part, maintain and operate the equipment utilized for stabilization treatment as described at Attachment A (Technical Area Unit Descriptions). | Y | Reviewed process with POC during on-site review. |
| **7.1: GENERAL CONDITIONS** | (3) The Permittees shall treat by stabilization in containers only in the permitted unit identified with process code T04 in attachment J, Table J-1. The Permittees shall not store or treat waste in quantities that exceed the operating capacities identified in Table J-1. | Y | Reviewed process with POC during on-site review. |
| **7.1: GENERAL CONDITIONS** | (4) The Permittees shall treat by stabilization only those wastes with EPA Hazardous Waste Numbers listed in association with the applicable permitted storage unit and stabilization process in Attachment B (Part A Application). | Y | Reviewed process with POC during on-site review. |
| **7.1: GENERAL CONDITIONS** | (5) The Permittees shall ensure that wastes or treatment reagents are not used in the stabilization process if they could cause the equipment used for treatment to rupture, leak, corrode, or otherwise fail. | Y | Reviewed process with POC during on-site review. |
| **7.2: GLOVEBOX INTEGRITY AND CONTAINMENT** | (1) The Permittees shall maintain in the Facility Operating Record the written integrity assessment of the glovebox system used to treat nitrate salt-bearing waste. | Y | Reviewed process with POC during on-site review. |
| **7.2: GLOVEBOX INTEGRITY AND CONTAINMENT** | (2) The Permittees shall use appropriate controls and practices to prevent spill and releases from the glovebox containment system. | Y | Reviewed process with POC during on-site review. |

| Permit Condition Section | Permit Language | Compliance (Y/N/NA) | Compliance Notes |
|---|---|---|---|
| **7.3: STABILIZATION REQUIREMENTS** | (1) The Permittees shall ensure that nitrate salt-bearing waste is treated within an enclosed glovebox or other containment equipment. | Y | All treatment reportedly occurs in glovebox. |
| **7.3: STABILIZATION REQUIREMENTS** | (2) The stabilization treatment process will consist of blending water and zeolite with waste solids or stabilizing liquid waste by blending with zeolite. | Y | All treatment reportedly occurs in glovebox. |
| **7.4: RELEASES WITHIN THE PERMITTED UNIT** | (1) Any release, or the potential for a release, from or at the TA-50-69 Indoor Permitted Unit that the Permittees does not deem a threat to human health or the environment must be reported to the Department in accordance with Permit Section 1.9.13. | NA | No releases were noted from TA-50-69 during on-site review. |
| **7.4: RELEASES WITHIN THE PERMITTED UNIT** | (2) The Permittees shall ensure that any release of waste from the TA-50-69 Indoor Permitted Unit to the environment (e.g., soil, surface water, groundwater, atmosphere) is reported to the Department by e-mail or facsimile within 24 hours of its detection. Within 5 days of detection of a release to the environment, the Permittees shall submit a written report to the Department containing the information required by Permit Section 1.9.12.2. | NA | No release were noted from TA-50-69 during on-site review. |
| **7.5: INCOMPATIBLE WASTES** | (1) The Permittees shall ensure that potentially incompatible waste is either treated or segregated to eliminate the possibility of combing materials that are incompatible. | NA | No incompatible waste were noted during the on-site review. |
| **7.6: CONFIRMATION ANALYSIS** | (1) Characterization for treated waste will be conducted in accordance Permit Attachment C (Waste Analysis Plan, Section C.3.2.4.2 Characterization Procedures for Waste Treated by Stabilization). | Y | Verified with WMC during on-site review. |
| **7.6: CONFIRMATION ANALYSIS** | (2) Pre-treatment and treatment verification samples will be collected in accordance with the subsection of Permit Attachment C.3.2.4 Characterization Procedures Prior to and After Treatment of Mixed TRU Wastes. | Y | Verified process with WMC during on-site review. |

### E.1.4.3 TA-54 Permitted Storage Unit

| Permit Condition Section | Permit Language | Compliance (Y/N/NA) | Compliance Notes |
|---|---|---|---|
| **Permit Section 3** | | | |
| **3.12.1: General Operating Conditions** | The Permittees shall ensure that storage of hazardous waste in containers at TA-54 occurs only in the permitted unit at Area L, the nine permitted units at Area G, the two permitted units at TA-54 West, and as identified in Attachment A (Technical Area Unit Descriptions) and Attachment J (Hazardous Waste Management Units). | Y | No wastes were observed being stored outside of permitted areas. |
| **3.12.1: General Operating Conditions** | Area G | | |
| **3.12.1: General Operating Conditions** | (1) The Permittees shall ensure that at Area G, all containers storing hazardous waste with free liquids are stored on secondary containment pallets, except inside the following structures: Domes 230, and Sheds 144, 145, 146, 177, 1027, 1028, 1029, and 1041. | Y | All containers storing free liquids in Area G were on secondary containment or in containment buildings. |
| **3.12.1: General Operating Conditions** | Area L | | |
| **3.12.1: General Operating Conditions** | (1) The 10,000 gallon holding tank at Area L, Dome 215 shall be inspected monthly and any detected fluids shall be characterized and removed within 3 days. The Permittees shall include a record of all holding tank inspections and evacuations in the Facility's Operating Record, including a complete chemical analysis of the tank contents (see 40 CFR § 270.32(b)(2)). | Y | No fluid contents which could be removed were noted on inspection logs. |
| **3.12.1: General Operating Conditions** | (2) The Permittees shall ensure that at Area L, all containers storing hazardous waste with free liquids are stored on secondary containment pallets, except when inside the following structures: Sheds 31, 68, 69, 70; concrete pad with canopy TA-54-32; concrete pads TA-54-35, TA-54-36, TA-54-58; and building TA-54-39 (Room 101 and South Containment Pad). | Y | All hazardous waste containers were stored in appropriate secondary containment areas in Area L. |

| Permit Condition Section | Permit Language | Compliance (Y/N/NA) | Compliance Notes |
|---|---|---|---|
| **3.12.1: General Operating Conditions** | TA-54 West | | |
| **3.12.1: General Operating Conditions** | The Permittees may store mixed TRU wastes in sealed Nuclear Regulatory Commission (NRC) certified Type-B shipping containers at the TA-54 West Outdoor permitted unit without secondary containment and weather protection. | NA | No wastes stored at TA-54 West Permitted Unit. |
| **3.12.1: General Operating Conditions** | The Permittees may use the Outdoor Pad excess storage capacity listed in Attachment J, Table J-1, only as specified in Permit Attachment A, Section A.4.3.2 (see 40 CFR § 270.32(b)(2)). | NA | Excess storage capacity was not used at time of review. |
| **3.12.1: General Operating Conditions** | The Permittees shall send a notification to the Secretary upon using the excess storage capacity that provides justification for its use. The Permittees shall send the notification to the e-mail notification list as specified in Permit Section 1.13. | NA | Excess storage capacity was not used at time of review. |
| 3.12.2: Preventing Run-on and Run-off | | | |
| **3.12.2.1: Domes 153 & 283** | The Permittees shall repair the 6-inch-high, 8-inch-wide curb at the perimeter of Domes 153 and 283 to prevent run-on/run-off to and from the permitted unit. | N | Curbing was evaluated and determined sufficient to prevent run-on and run-off. However, an observation was noted for Dome 153 noting a need for repair of perimeter curb. |
| **3.12.2.2: Storage Shed 8** | The Permittees shall repair the 6-inch high, 8-inch-wide curb at Storage Shed 8 in as timely a manner as possible to prevent run-on/run-off to and from the permitted unit. The concrete slab on the south side of the shed shall be sloped away from the shed's foundation to prevent run-on. If the concrete slab is damaged, the Permittees shall repair the slab to prevent run-on to the permitted unit. | Y | Curbing was evaluated and sufficient to prevent run-on and run-off. |

| Permit Condition Section | Permit Language | Compliance (Y/N/NA) | Compliance Notes |
|---|---|---|---|
| **3.12.2.3: TA-54-33** | The Permittees shall repair the 6-inch-high, 8-inch-wide concrete curb at the perimeter of the dome at TA-54-33 to prevent run-on/run-off to and from the permitted unit. The concrete floors of Rooms 100, 100A, 100B, 100C, and 105 shall slope inward to prevent run-off. If the concrete floors are damaged, the Permittees shall repair the floor(s) to prevent run-off from the permitted unit. | N | Curbing was evaluated and sufficient to prevent run-on and run-off. However, secondary containment coating was note as pealing during the review. |
| 3.12.3: Secondary Containment | | | |
| **3.12.3.1: TA-54-32** | The Permittees shall treat the concrete sumps with chemical-resistant epoxy filler-sealer and protective coating, providing an impervious seal to contain any potential leaks, spills, or accumulation of precipitation. The Permittees shall maintain the chemical-resistant epoxy and protective coating in accordance with Permit Section 3.7.1 and the manufacturer's specifications. | Y | Concrete sumps were inspected during on- site walkthrough. |
| **3.12.3.2: TA-54-35** | The Permittees shall treat the concrete berms and the base of the concrete pad with chemical-resistant epoxy filler-sealer and protective coating, providing an impervious seal to contain any potential leaks, spills, or accumulation of precipitation. The Permittees shall maintain the chemical-resistant epoxy and protective coating in accordance with Permit Section 3.7.1 and the manufacturer's specifications | Y | Berms were inspected during on-site walkthrough. |
| **3.12.3.3: TA-54-36** | The Permittees shall treat the concrete berms and the base of the concrete pad with chemical-resistant epoxy filler-sealer and protective coating, providing an impervious seal to contain any potential leaks, spills, or accumulation of precipitation. The Permittees shall maintain the chemical-resistant epoxy and protective coating in accordance with Permit Section 3.7.1 and the manufacturer's specifications. | N | Review of concrete pad noted secondary containment coating was pealing. |

| Permit Condition Section | Permit Language | Compliance (Y/N/NA) | Compliance Notes |
|---|---|---|---|
| **3.12.3.4: TA-54-58** | The Permittees shall treat the concrete berms and the base of the concrete pad with chemical-resistant epoxy filler-sealer and protective coating, providing an impervious seal to contain any potential leaks, spills, or accumulation of precipitation. The Permittees shall maintain the chemical-resistant epoxy and protective coating in accordance with Permit Section 3.7.1 and the manufacturer's specifications. | Y | Berms were inspected during on-site walkthrough. |
| **3.12.3.5: TA-54-39 and Containment Pad** | | | |
| **3.12.3.5.i: Room 101** | The Permittees shall treat the curb and floor of this 878 square foot room with chemical-resistant epoxy filler-sealer and protective coating, providing an impervious seal to contain any potential leaks, spills, or accumulation of precipitation. The Permittees shall maintain the chemical-resistant epoxy and protective coating in accordance with Permit Section 3.7.1 and the manufacturer's specifications. | Y | Curb and floor were inspected during on-site walkthrough |
| **3.12.3.5.ii: Containment Pad** | The Permittees shall treat the concrete floor and curb with chemical-resistant epoxy filler-sealer and protective coating, providing an impervious seal to contain any potential leaks, spills, or accumulation of precipitation. The Permittees shall maintain the chemical-resistant epoxy and protective coating in accordance with Permit Section 3.7.1 and the manufacturer's specifications. | Y | Curb and floor were inspected during on-site walkthrough |
| **3.12.3.6: Storage Sheds 144, 145, 146, and 177** | The Permittees shall ensure the interior of each shed and sump is treated with chemically-resistant epoxy paint. The Permittees shall maintain the chemically-resistant epoxy paint in accordance with Permit Section 3.7.1 of this Permit Part and the manufacturer's specifications. | Y | Interior of shed and sump were inspected during on-site walkthrough. |

### E.1.4.4 TA-55 Permitted Storage Unit

| Permit Condition Section | Permit Language | Compliance (Y/N/NA) | Compliance Notes |
|---|---|---|---|
| **Permit Section 3** | | | |
| **3.13.1: General Operating Conditions** | The Permittees shall ensure that storage of hazardous or mixed waste in containers at TA-55 occurs only in the permitted units B13, B45, B40, B05, G12, K13, the vault located at TA-55-4, TA-55-0355 Pad and the outdoor container storage pad located northwest of TA-55-4, and as identified in Attachment A (Technical Area Unit Descriptions) and Attachment J (Hazardous Waste Management Units). | Y | Verified during on-site walkthrough that storage of hazardous or mixed waste only occurred in permitted units. |
| **3.7.2: Containers without Free Liquids** | (3) The Permittees shall ensure that the permitted units identified in Attachment J (Hazardous Waste Management Units), Table J-1 (Active Portion of the Facility), as managing "non-liquid wastes only" only manage non-liquid wastes. | Y | Sites that are not permitted to store liquid wastes inventories were verified during on- site walkthrough. The following units can only store non-liquid wastes: TA-55-4, B05; TA-55-4, B45; TA-55-4 B13, TA-55-4 G12. |
| **Permit Section 4** | | | |
| **4.1: GENERAL CONDITIONS** | (1) The Permittees shall store mixed waste in tanks in accordance with the requirements of 40 CFR Part 264, Subpart J, which is incorporated herein by reference and this Permit Part. The Permittees shall treat mixed waste by stabilization in accordance with the requirements of 40 CFR Part 264, Subpart X, which is incorporated herein by reference and this Permit Part. | Y | Reviewed mixed waste storage tanks during on-site walkthrough. Mixed waste currently only stored in evaporator glovebox tank. |
| **4.1: GENERAL CONDITIONS** | (2) The Permittees shall, in accordance with this Permit Part, maintain and operate the mixed waste storage tank unit, the stabilization unit, all ancillary equipment as defined in 40 CFR § 260.10, and the associated secondary containment system at TA-55 as described at Attachment A (Technical Area Unit Descriptions). | Y | Reviewed inspection logs and discussed maintenance activities with points of contact (POCs) during on-site walkthrough. |

| Permit Condition Section | Permit Language | Compliance (Y/N/NA) | Compliance Notes |
|---|---|---|---|
| **4.1: GENERAL CONDITIONS** | (3) The Permittees shall store mixed waste only in the tank systems associated with the permitted unit identified with process code S02 in Attachment J (Hazardous Waste Management Units), Table J-1 (Active Portion of the Facility). The Permittees shall treat mixed waste by stabilization only in the permitted unit identified with process code T04 in Attachment J, Table J-1. The Permittees shall not store or treat mixed waste in quantities that exceed the operating capacities identified in Table J-1. | Y | Verified storage of mixed waste during on- site walkthrough. Mixed waste stabilization tank has not been used in approximately 2 years. |
| **4.1: GENERAL CONDITIONS** | (4) The Permittees shall store in the tank unit and treat in the stabilization unit only those wastes with the EPA Hazardous Waste Numbers listed in association with the applicable storage tank unit and stabilization unit in Attachment B (Part A Application). | Y | Verified storage of mixed waste during on- site walkthrough. Mixed waste stabilization tank has not been used in approximately 2 years. |
| **4.1: GENERAL CONDITIONS** | (5) The Permittees shall ensure that mixed wastes or treatment reagents are not placed in the storage tank or stabilization units if they could cause the units, their ancillary equipment, or the containment system to rupture, leak, corrode, or otherwise fail (see 40 CFR § 264.194(a)). | Y | Verified storage of mixed waste during on- site walkthrough. Mixed waste stabilization tank has not been used in approximately 2 years. |
| **4.2: EXISTING TANK SYSTEM INTEGRITY** | The Permittees shall maintain in the Facility Operating Record the written integrity assessments of the existing tank unit system provided with the Permittees' Permit Application. | Y | Verified inspections include tank integrity testing. |
| **4.3: REPLACEMENT TANK SYSTEM AND STABILIZATION UNIT COMPONENTS** | (1) The Permittees shall ensure either that storage tank or stabilization system repairs are performed in accordance with 40 CFR §§ 264.196(e)(2) through (4), or that the system be closed in accordance with the conditions of this Permit and 40 CFR § 264.197, which is incorporated herein by reference. | NA | No active repairs required in review of inspection records. |

| Permit Condition Section | Permit Language | Compliance (Y/N/NA) | Compliance Notes |
|---|---|---|---|
| **4.3: REPLACEMENT TANK SYSTEM AND STABILIZATION UNIT COMPONENTS** | (2) During the replacement of tank unit systems and stabilization unit ancillary equipment the Permittees shall ensure that proper handling procedures are adhered to in order to prevent damage to the units, their components, or any ancillary equipment (see 40 CFR § 264.192(b)). Replacement equipment shall be made of the same or similar materials as those described in Attachment A (Technical Area Unit Descriptions). | NA | No active replacement of tank unit systems observed. |
| **4.3: REPLACEMENT TANK SYSTEM AND STABILIZATION UNIT COMPONENTS** | (3) The Permittees shall ensure that prior to replacing a portion of the tank or stabilization unit systems, a registered engineer trained and experienced in the proper installation of tank systems or components inspects the system in accordance with the requirements of 40 CFR § 264.192(b). A record of this inspection shall be maintained in the Facility Operating Record. | NA | No active replacement of tank unit systems observed. |
| **4.3: REPLACEMENT TANK SYSTEM AND STABILIZATION UNIT COMPONENTS** | (4) If the Permittees repair the storage tank unit or the stabilization unit systems, the Permittees shall certify that the system is capable of handling mixed wastes without release for the intended life of the system in accordance with the requirements of 40 CFR § 264.196(f), which is incorporated herein by reference. This certification must be submitted to the Department within seven days after returning the tank system to use. | NA | No active repair of tank unit systems observed. |
| **4.3: REPLACEMENT TANK SYSTEM AND STABILIZATION UNIT COMPONENTS** | (5) Replacement tanks, their ancillary equipment, and stabilization unit ancillary equipment shall be tested for tightness prior to being placed into use (see 40 CFR § 264.192(d)). If a replacement tank, tank ancillary equipment or the stabilization unit ancillary equipment is found not to be tight, all repairs necessary to remedy the leak(s) in the system shall be performed prior to the system being placed into use. | NA | No active replacement of tank unit systems observed. |

| Permit Condition Section | Permit Language | Compliance (Y/N/NA) | Compliance Notes |
|---|---|---|---|
| **4.3: REPLACEMENT TANK SYSTEM AND STABILIZATION UNIT COMPONENTS** | (6) The Permittees shall obtain and keep in the Facility Operating Record the written statements required at 40 CFR § 264.192, which is incorporated herein by reference. | Y | Reviewed as Attachment A of *Resource Conservation and Recovery Act (RCRA), Technical Area 55 (TA-55) Part B Permit Application Submittal- Los Alamos National Laboratory (LANL), EPA ID No. NM 890010515* (NMED 2020). |
| **4.4: TANK SYSTEMS AND STABILIZATION UNIT CONTAINMENT** | (1) The Permittees shall ensure that the tank and stabilization units have an associated secondary containment system that conforms to the requirements specified at 40 CFR § 264.193, which is incorporated herein by reference. The Permittees shall consider the walls and floor of Room 401 as the secondary containment system for the storage tank and the stabilization units. | Y | Quote from TA-55 Part B Permit Application: *The storage tank system is located at TA-55-4 inside Room 401. This room has a floor and walls that completely surround the tank system (i.e., tanks, ancillary equipment, and piping) and serve as secondary containment, therefore, the secondary containment meets the requirements of 20.4.1 NMAC§264.193(e)(1) for an external liner system* (NMED 2020). |
| **4.4: TANK SYSTEMS AND STABILIZATION UNIT CONTAINMENT** | (2) The Permittees shall use appropriate controls and practices to prevent spills and overflows from the storage tank unit, the stabilization unit, or their associated containment system in accordance with 40 CFR § 264.194(b), which is incorporated herein by reference. | NA | No records of observed releases from permitted stabilization unit. |
| **4.4: TANK SYSTEMS AND STABILIZATION UNIT CONTAINMENT** | (3) The Permittees shall ensure that spilled, leaked, or otherwise accumulated liquids are removed from the secondary containment system, including but not limited to the sumps, within 24 hours of detection of the spill, leak, or accumulation. The Permittees may seek an extension of time if the Permittees can demonstrate that removal of the released waste or accumulated liquids cannot be accomplished within 24 hours (see 40 CFR § 264.193(c)(4)). Such a determination must be made within 24 hours of detection of the spill, leak of the released waste. The Permittees shall notify the Department of any accumulated liquids within the secondary containment system within five days of detection of such liquids (see 40 CFR § 270.32(b)(2)). | NA | No records of observed releases from permitted stabilization unit. |

| Permit Condition Section | Permit Language | Compliance (Y/N/NA) | Compliance Notes |
|---|---|---|---|
| **4.4: TANK SYSTEMS AND STABILIZATION UNIT CONTAINMENT** | (4) The Permittees shall ensure that the secondary containment system comprised in part by floor, wall, or joint sealants, is installed and maintained in accordance with the sealant manufacturer's recommendations, and shall maintain documentation of this fact in the Facility Operating Record. This documentation shall include a copy of the manufacturer's recommendations and a certification from a registered engineer stating the Permittees' installation and maintenance procedures were performed in accordance with the recommendations. | Y | Verified that joints are inspected as part of regular inspections. |
| **4.4: TANK SYSTEMS AND STABILIZATION UNIT CONTAINMENT** | (5) Secondary containment systems utilizing sealants existing at the time of this Permit's issuance but not having associated sealant manufacturer's recommendations or an associated certification statement shall be re-sealed within 90 days of the effective date of this Permit (see 40 CFR § 270.32(b)(2)). | NA | No use of joint sealants not identified in FOR. |
| **4.4: TANK SYSTEMS AND STABILIZATION UNIT CONTAINMENT** | (6) The Permittees shall ensure that all tank and stabilization unit ancillary equipment have secondary containment in accordance with 40 CFR § 264.193(f), which is incorporated herein by reference. Above ground waste piping, including welded flanges, joints, and connections, shall be inspected for leaks each operating day (i.e., each day that waste is present in a tank or stabilization unit). | Y | Tanks holding waste are inspected daily, as verified in Inspection Record Form review. Room acts as secondary containment. |
| **4.4: TANK SYSTEMS AND STABILIZATION UNIT CONTAINMENT** | (7) The Permittees shall ensure that a storage tank unit, stabilization unit, secondary containment system, or a portion of these units or systems, from which there has been a leak or spill, or which is unfit for use, is removed from service immediately and otherwise complies with the requirements of 40 CFR § 264.196, which is incorporated herein by reference. | NA | No recent required replacement of any permitted unit or containment. |

| Permit Condition Section | Permit Language | Compliance (Y/N/NA) | Compliance Notes |
|---|---|---|---|
| **4.4: TANK SYSTEMS AND STABILIZATION UNIT CONTAINMENT** | (8) The Permittees shall ensure that any release of mixed waste from a storage tank or stabilization unit to the environment (e.g., soil, surface water, groundwater, atmosphere) is reported to the Department by e-mail or facsimile within 24 hours of its detection (see 40 CFR § 264.196(d)). Within 30 days of detection of a release to the environment, the Permittees shall submit a written report to the Department containing the information at 40 CFR § 264.196(d)(3), which is incorporated herein by reference. | NA | No recent releases from TA-55 permitted unit. |
| **4.4: TANK SYSTEMS AND STABILIZATION UNIT CONTAINMENT** | (9) The Permittees shall give notice by e-mail to persons on the e-mail notification list of the written report under 40 CFR § 264.196(d)(3) in accordance with Permit Section 1.13. | NA | No recent releases from TA-55 permitted unit. |
| **4.5: IGNITABLE, REACTIVE, OR INCOMPATIBLE WASTES** | The Permittees shall ensure that the mixed waste storage tank and stabilization units do not manage ignitable or reactive waste. | Y | No ignitable or reactive waste observed stored in tanks during review. |
| **4.5: IGNITABLE, REACTIVE, OR INCOMPATIBLE WASTES** | The Permittees shall ensure that incompatible wastes, or wastes and other materials that are incompatible, are not placed in the same tank system or stabilization unit (see 40 CFR § 264.199). | Y | No incompatible wastes stored in tanks during review. |

### E.1.4.5 TA-63 Permitted Storage Unit

| Permit Condition Section | Permit Language | Compliance (Y/N/NA) | Compliance Notes |
|---|---|---|---|
| **Permit Section 3** | | | |
| **3.14.1: General Operating Conditions** | The Permittees shall ensure that storage and characterization of hazardous waste in containers at the Transuranic Waste Facility (TWF) occurs only on the permitted unit pad at TA-63, and as identified in Attachment A (Technical Area Unit Descriptions) and Attachment J (Hazardous Waste Management Units). This includes five storage buildings, the storage and characterization building, the characterization trailers, and the outside areas of the concrete pad within the unit boundary subject to the provisions of Permit Section 3.5.1, Storage Configuration and Minimum Aisle Space. | Y | There was no drum storage outside of permitted areas TA-63 |
| **3.14.1: General Operating Conditions** | (1) The Permittees shall store all hazardous waste containers known or suspected of holding free liquids on secondary containment pallets. If containers with free liquid are stored in the characterization trailers without secondary containment pallets for longer than 24 hours, the Permittees shall follow the reporting conditions of Permit Section 1.9.14, Other Noncompliance. | NA | No wastes holding free liquids were stored at TA-63 during review. |
| **3.14.1: General Operating Conditions** | (2) The Permittees shall not store containers with ignitable or reactive waste (E.P.A. Hazardous Waste Numbers D001 or D003) within 15 meters of the permitted unit's security barrier system shown in Figure 55 (see 40 CFR §264.176 and §270.32(b)(2)). | NA | No ignitable wastes stored at TA-63 during review. |
| **3.14.1: General Operating Conditions** | (3) The Permittees shall only accept TRU and mixed TRU waste containers at the TWF if they are closed and equipped with filter vents approved for containers destined for the Waste Isolation Pilot Plant. The Permittees shall not open waste containers during storage or characterization at the TWF, although the Permittees may replace filter vents on TRU and mixed TRU waste containers if necessary (see 40 CFR §270.32(b)(2)). | Y | All containers had proper filter device. |
| **3.14.1: General Operating Conditions** | (4) The Permittees shall not accept the following waste for storage at the TWF: | Y | See subsequent 3 items for compliance. |

| Permit Condition Section | Permit Language | Compliance (Y/N/NA) | Compliance Notes |
|---|---|---|---|
| **3.14.1: General Operating Conditions** | a. Remote-handled TRU waste | Y | No remote-handled TRU waste stored at TA- 63. |
| **3.14.1: General Operating Conditions** | b. Waste containers that are known or suspected to contain greater than 1% free liquid, as defined in 40 CFR § 260.10 | Y | No containers with free liquids stored at TA- 63. |
| **3.14.1: General Operating Conditions** | c. Mixed waste generated prior to April 21, 2011 (see 40 CFR §270.32(b)(2)) | Y | No wastes generated prior to April 21, 2011 were noted as being stored here. |
| **3.14.2: Retention Basin** | The Permittees shall inspect the retention basin as required by Permit Section 2.6, General Inspection Requirements, and in accordance with Permit Attachment E, Inspection Plan, for evidence of contamination and deterioration during each inspection. The Permittees shall record inspection results and any remediation in the Operating Record. Any decontamination of the retention basin will be subject to the provisions of Permit Attachment D, Contingency Plan. | Y | Inspection procedures for basin verified in interview with site personnel. |

| Permit Condition Section | Permit Language | Compliance (Y/N/NA) | Compliance Notes |
|---|---|---|---|
| **3.14.2: Retention Basin** | (1) The Permittees shall control run-on and run-off as specified in Permit Attachment A, Section A.6.9., Control of Run-on/Run-off. Run-off collected in the retention basin shall be evaluated before discharge. If the run-off is known to be or potentially contaminated with hazardous waste constituents from a spill, leak, or other release, it shall be sampled. If sampling and analysis are required due to known or suspected contamination, the Permittees shall collect a water sample within 24 hours of discovery of the known or suspected contamination. The analytical testing shall include all appropriate methods based on the composition of waste stored at the unit. If the run-off present in the retention basin is determined to be hazardous waste, the Permittees shall implement Attachment D, Contingency Plan, and manage the waste spill as required by Permit Section D.4. The Permittees shall use the analytical results, together with information from the Operating Record, to characterize the water in accordance with Permit Attachment C, Waste Analysis Plan. The Permittees shall record the type and quantity of waste water present in the retention basin, the date of the incident, and the date of removal of the waste water in the Operating Record. If the Permittees determine that the storm water is not hazardous waste, but that it is contaminated with hazardous waste constituents, the Permittees shall ensure the storm water meets the applicable clean-up requirements in Permit Section 11.4.3, Surface Water Clean-up Levels, prior to discharge. If the Permittees determine that the storm water is not contaminated with hazardous waste constituents, the Permittees shall manage the storm water in accordance with The Multi-Sector General Permit For Stormwater Discharges Associated with Industrial Activity (MSGP) for the facility. | Y | Procedure for pumping retained run-off in holding basin verified in interview with on- site personnel. |
| **3.14.2: Retention Basin** | (2) Within 24 hours of a fire event, the Permittees shall collect a sample of fire suppression water collected in the retention basin and analyze it for any hazardous waste constituents managed at the facility. If the fire suppression water present in the retention basin is determined to be hazardous waste, the Permittees shall manage the waste water as required by Attachment D, Contingency Plan. The Permittees shall use the analytical results, together with information from the Operating Record, to characterize the water in accordance with Permit | NA | There has been no fire events at this facility. |

| Permit Condition Section | Permit Language | Compliance (Y/N/NA) | Compliance Notes |
|---|---|---|---|
| **3.14.2: Retention Basin** | Attachment C, Waste Analysis Plan. The Permittees shall record the type and quantity of waste water present in the retention basin, the date of the incident, and the date of removal of the waste water in the Operating Record. If the Permittees determine that the fire suppression water is not a hazardous waste, the Permittees shall ensure the water meets the applicable clean-up requirements in Permit Section 11.4.3, Surface Water Clean-up Levels, prior to discharge. | NA | Only non-hazardous storm-water runoff has been in retention basin. |
| **3.14.3: Subsurface Vapor Monitoring** | The Permittees shall monitor subsurface vapors to evaluate for releases from Material Disposal Area (MDA) C. If soil vapors are determined to present a potential risk to site workers, then the Permittees shall initiate corrective action as necessary to protect human health. | Y | There has been no soil vapors that would present a potential risk to site workers (LANL 2021d). |
| **3.14.3: Subsurface Vapor Monitoring** | The subsurface vapor monitoring network is described in Permit Attachment A, Section A-6-10, and Figure 56 in Attachment N (Figures). Vapor monitoring well construction must be completed and at least one vapor sample collected from each well sampling port prior to the start of operations at the TWF. Vapor samples must then be collected quarterly during the first year of operation. After the first year of sampling, the Permittees may propose an alternate sampling frequency for subsequent years, in a permit modification request, based on the evaluation of data from the pre-operational and quarterly samples, as well as relevant vapor monitoring data collected from nearby vapor-monitoring locations. All vapor samples shall be analyzed for volatile organic compounds (VOCs), and samples shall be collected in appropriate sample canisters and submitted for analysis of VOCs using EPA Method TO-15. The Permittees must submit a vapor monitoring work plan to the Department for approval no less than 90 days after the effective date of this Permit. The Permittees are required to submit a letter report no later than 60 days following each sample collection event detailing the sampling procedure, analytical results, and any deviations from the Department approved work plan. | Y | There has been no soil vapors that would present a potential risk to site workers (LANL 2021d). |

| Permit Condition Section | Permit Language | Compliance (Y/N/NA) | Compliance Notes |
|---|---|---|---|
| **3.14.3: Subsurface Vapor Monitoring** | The Department utilized the methodology described below to determine appropriate soil gas screening levels (SGSLs) for all vapor-phase hazardous constituents detected in the subsurface at MDA C. Required detection and action levels for analytical data are consistent with the lowest SGSLs. | Y | There has been no soil vapors that would present a potential risk to site workers (LANL 2021d). |
| **3.14.3: Subsurface Vapor Monitoring** | The SGSL levels for constituents detected at MDA C are provided as action levels in Tables 3.14.3.1, 3.14.3.2 and 3.14.3.3 at the end of this Section (3.14.3). The SGSL values were calculated using a generalized equation derived from Equation 19 in the EPA's "User's Guide to Evaluating Subsurface Vapor Intrusion Into Buildings" (February 22, 2004, United States Environmental Protection Agency, Washington, DC), and the methodology outlined in "Guidance for the Evaluation and Mitigation of Subsurface Vapor Intrusion to Indoor Air (Vapor Intrusion Guidance)" (October 2011, Department of Toxic Substances Control, California Environmental Protection Agency). The equation is as follows:<br>SGSL=IARL/∝<br>Where:<br>SGSL = Soil gas screening level<br>IARL = Risk-based screening level for industrial workers indoor air<br>α = Attenuation factor (ratio of indoor air concentration to soil gas concentration) | Y | There has been no soil vapors that would present a potential risk to site workers (LANL 2021d). |
| **3.14.3: Subsurface Vapor Monitoring** | If sample results, reported in accordance with Permit Section 11.10.3, indicate that volatile organic constituents are present at concentrations above soil gas screening levels at any port in any of the vapor detection network wells, the Permittees must: | Y | There has been no soil vapors that would present a potential risk to site workers (LANL 2021d). |
| **3.14.3: Subsurface Vapor Monitoring** | (1) Notify NMED in writing within 24 hours of detection; | Y | There has been no soil vapors that would present a potential risk to site workers (LANL 2021d). |
| **3.14.3: Subsurface Vapor Monitoring** | (2) Resample the wells as soon as is practicable within ten business days to confirm results. Confirmatory samples must be processed on a rush basis at the analytical laboratory; | Y | There has been no soil vapors that would present a potential risk to site workers (LANL 2021d). |

| Permit Condition Section | Permit Language | Compliance (Y/N/NA) | Compliance Notes |
|---|---|---|---|
| **3.14.3: Subsurface Vapor Monitoring** | (3) If the confirmatory analytical sample results verify the accuracy of the initial sample results, the Permittees must notify NMED in writing within 24 hours of confirmation in order to discuss whether subsurface mitigation measures are required to protect human health. | Y | There has been no soil vapors that would present a potential risk to site workers (LANL 2021d). |
| **3.14.3: Subsurface Vapor Monitoring** | The Respondents shall notify the Department in writing within fifteen days after review of the analytical data if the data indicate any of the following: | Y | There has been no soil vapors that would present a potential risk to site workers (LANL 2021d). |
| **3.14.3: Subsurface Vapor Monitoring** | (1) Detection of a contaminant in a vapor monitoring well if that contaminant has not previously been detected in the well. | Y | There has been no soil vapors that would present a potential risk to site workers (LANL 2021d). |
| **3.14.3: Subsurface Vapor Monitoring** | (2) Detection of a contaminant in a vapor monitoring well at a concentration that exceeds one-half the soil gas screening level, if that contaminant has not previously exceeded one-half such screening level in the well. | Y | There has been no soil vapors that would present a potential risk to site workers (LANL 2021d). |
| **3.14.3: Subsurface Vapor Monitoring** | (3) Detection of a contaminant in a vapor monitoring well at a concentration that exceeds one-half the soil gas screening level and that has increased for the third consecutive sampling of that well. | Y | There has been no soil vapors that would present a potential risk to site workers (LANL 2021d). |
| **3.14.3: Subsurface Vapor Monitoring** | The written notification shall be submitted to the Department in a letter report that includes, at a minimum, in table format, the date or dates of the sampling event, the well designation, the location of the well, a list of the analytical data that triggered the reporting requirement, any known issues with sample quality, and the specific category for which the data is reported under this Section (3.14.3). The Permittees may submit a proposal for further sampling or investigation or, alternately, the Department may require further investigation. Any further sampling or investigation would be performed in accordance with the corrective action required under 2005 Order on Consent or Permit Part 11. | Y | There has been no soil vapors that would present a potential risk to site workers (LANL 2021d). |

| Permit Condition Section | Permit Language | Compliance (Y/N/NA) | Compliance Notes |
|---|---|---|---|
| **3.14.3: Subsurface Vapor Monitoring** | Current Soil Gas Screening Levels for Selected VOCs at sampling ports located 5 feet below ground surface (as amended) (see permit for table) | Y | There has been no soil vapors that would present a potential risk to site workers (LANL 2021d). |
| **3.14.3: Subsurface Vapor Monitoring** | Current Soil Gas Screening Levels for Selected VOCs at sampling ports located 25 feet below ground surface (as amended) (see permit for table) | Y | There has been no soil vapors that would present a potential risk to site workers (LANL 2021d). |
| **3.14.3: Subsurface Vapor Monitoring** | Current Soil Gas Screening Levels for Selected VOCs at sampling ports located 60 feet below ground surface (as amended) (see permit for table) | Y | There has been no soil vapors that would present a potential risk to site workers (LANL 2021d). |

### E.1.4.6 Permitted Field Checklists

| 6/21/21 | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Area Description | | | | Permitted Site Items | | | | | | | | | | | | | | | | | WCAT Information and Notes | | |
| Site ID | Site Type | TA | Additional Note Number | Container Condition | Compatible Storage | Containers Closed | Labed as HW | Content Label | Epoxy Fl. Coating | Signage | Spill Kit | Fire Exting | Training | Shower & Eyewash | Comms (i.e., phone) | Fire Supression | Alarms | Contingency Plan | Insp Records | Aisle space | Accum Time Limit | WCAT ID | Notes | WCAT Verified |
| 1907 | PERM | 3 | 9020 | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | LA00000064760 | | Y |
| 454A | PERM | 3 | 9020 | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | LA00000072879 | | Y |
| 454B | PERM | 3 | 9010 | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | | | |

| 6/21/21 | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Area Description | | | | Permitted Site Items | | | | | | | | | | | | | | | | | | WCAT Information and Notes | | |
| Site ID | Site Type | TA | Additional Note Number | Container Condition | Compatible Storage | Containers Closed | Labed as HW | Content Label | Epoxy Fl. Coating | Signage | Spill Kit | Fire Exting | Training | Shower & Eyewash | Comms (i.e., phone) | Fire Supression | Alarms | Contingency Plan | Insp Records | Aisle space | Accum Time Limit | WCAT ID | Notes | WCAT Verified |
| 849 | PERM | 3 | 9030 | | | | | | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | | | No waste | |
| 461 | PERM | 50 | | | | | | | NA | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | | | | No waste since 2018 | |
| 462 | PERM | 50 | | | | | | | NA | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | | | | No waste | |
| 6/22/21 | | | | | | | | | | | | | | | | | | | | | | | | |
| Area Description | | | | Permitted Site Items | | | | | | | | | | | | | | | | | | WCAT Information and Notes | | |
| Site ID | Site Type | TA | Additional Note Number | Container Condition | Compatible Storage | Containers Closed | Labed as HW | Content Label | Epoxy Fl. Coating | Signage | Spill Kit | Fire Exting | Training | Shower & Eyewash | Comms (i.e., phone) | Fire Supression | Alarms | Contingency Plan | Insp Records | Aisle space | Accum Time Limit | WCAT ID | Notes | WCAT Verified |
| 481 | PERM | 55 | 401 | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | | | |
| 1225 | PERM | 55 | 401 | | | | | | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | | No waste present during review | |

| 6/22/21 | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Area Description | | | | Permitted Site Items | | | | | | | | | | | | | | | | | WCAT Information and Notes | | |
| Site ID | Site Type | TA | Additional Note Number | Container Condition | Compatible Storage | Containers Closed | Labed as HW | Content Label | Epoxy Fl. Coating | Signage | Spill Kit | Fire Exting | Training | Shower & Eyewash | Comms (i.e., phone) | Fire Supression | Alarms | Contingency Plan | Insp Records | Aisle space | Accum Time Limit | WCAT ID | Notes | WCAT Verified |
| 6430 | PERM | 55 | B13 | | | | | | | | | | Y | | | | | | | | | | Vault room; no uncleared | |
| 478 | PERM | 55 | B45 | Y | Y | Y | Y | Y | NA | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | | Rad waste | |
| 479 | PERM | 55 | K13 | Y | Y | Y | Y | Y | NA | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | | | |
| 6431 | PERM | 55 | | | | | | | NA | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | | No waste present during review | |
| 1228 | PERM | 55 | B05 | | | | | | | | | | Y | | | | | | | | | | Memo stating no HW use. | |
| 477 | PERM | 55 | B40 | Y | Y | Y | Y | Y | NA | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | LA00000073124 | | Y |
| 475 | PERM | 55 | | | | | | | | | | | Y | | | | | | | | | | Memo stating no HW use. | |
| 480 | PERM | 55 | 480 | Y | Y | Y | Y | Y | NA | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | LA00000074632 | D005,6,7,8,9,10,11 | Y |
| 6429 | PERM | 55 | HENC PAD | Y | Y | Y | Y | Y | NA | Y | Y | Y | Y | Y | Y | NA | NA | Y | Y | Y | Y | LA00000074779<br>LA00000074882 | | Y |

6/23/21

| Area Description | | | | Permitted Site Items | | | | | | | | | | | | | | | | | WCAT Information and Notes | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Site ID | Site Type | TA | Additional Note Number | Container Condition | Compatible Storage | Containers Closed | Labed as HW | Content Label | Epoxy Fl. Coating | Signage | Spill Kit | Fire Exting | Training | Shower & Eyewash | Comms (i.e., phone) | Fire Supression | Alarms | Contingency Plan | Insp Records | Aisle space | Accum Time Limit | WCAT ID | Notes | WCAT Verified |
| 1581 | PERM | 54 | | | | | | | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | | | | No waste | |
| 1578 | PERM | 54 | | | | | | | NA | Y | | Y | Y | | Y | Y | | Y | Y | | | | No waste | |
| 6432 | PERM | 63 | | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | LA00000072522 | D005,6,7,8,9,10,11 | Y |

6/29/21

| Area Description | | | | Permitted Site Items | | | | | | | | | | | | | | | | | WCAT Information and Notes | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Site ID | Site Type | TA | Additional Note Number | Container Condition | Compatible Storage | Containers Closed | Labed as HW | Content Label | Epoxy Fl. Coating | Signage | Spill Kit | Fire Exting | Training | Shower & Eyewash | Comms (i.e., phone) | Fire Supression | Alarms | Contingency Plan | Insp Records | Aisle space | Accum Time Limit | WCAT ID | Notes | WCAT Verified |
| 0058 | PERM | 54 | L | Y | Y | Y | NA | N | N | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | | Non-haz sump water mislabeled | |
| 0036 | PERM | 54 | L | | | | | | N | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | | No waste in storage during review | |

| 6/29/21 | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Area Description | | | | Permitted Site Items | | | | | | | | | | | | | | | | | WCAT Information and Notes | | |
| Site ID | Site Type | TA | Additional Note Number | Container Condition | Compatible Storage | Containers Closed | Labed as HW | Content Label | Epoxy Fl. Coating | Signage | Spill Kit | Fire Exting | Training | Shower & Eyewash | Comms (i.e., phone) | Fire Supression | Alarms | Contingency Plan | Insp Records | Aisle space | Accum Time Limit | WCAT ID | Notes | WCAT Verified |
| 0035 | PERM | 54 | L | | | | | | N | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | | No waste in storage during review | |
| 0215 | PERM | 54 | L | | | | | | NA | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | | No waste in storage during review | |
| 0215 TANK | PERM | 54 | L | | | | | | | | | | Y | | | | | | Y | | | | Tank empty and inspections current | |
| 0032 | PERM | 54 | L | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | W824602 | PCB items in Storage | N |
| 0039 | PERM | 54 | L | Y | Y | Y | Y | Y | NA | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | W863255 | Spill Pallets in use, STP Accumulation noted | N |
| 49 | PERM | 54 | G | Y | Y | Y | Y | Y | NA | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | | | Y |
| 224 | PERM | 54 | G | | | | | | NA | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | | No waste in storage during review | |
| 33 | PERM | 54 | G | Y | Y | Y | Y | Y | N | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | | Floor coating peeling. Drum label to inside. | |
| 231 | PERM | 54 | G | | | | | | NA | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | | All waste within permacon; not entered | Y |
| 229 | PERM | 54 | G | Y | Y | Y | Y | Y | NA | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | | | Y |

| 6/29/21 | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Area Description | | | | Permitted Site Items | | | | | | | | | | | | | | | | | WCAT Information and Notes | | |
| Site ID | Site Type | TA | Additional Note Number | Container Condition | Compatible Storage | Containers Closed | Labed as HW | Content Label | Epoxy Fl. Coating | Signage | Spill Kit | Fire Exting | Training | Shower & Eyewash | Comms (i.e., phone) | Fire Supression | Alarms | Contingency Plan | Insp Records | Aisle space | Accum Time Limit | WCAT ID | Notes | WCAT Verified |
| 283 | PERM | 54 | G | Y | Y | Y | Y | Y | NA | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | | Faded signs noted | |
| 153 | PERM | 54 | G | Y | Y | Y | Y | Y | NA | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | WS42272 - LA00000068975 | 6" perimeter curb in need of repair at SW corner | Y |
| 412 | PERM | 54 | G | | | | | | NA | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | | No waste in storage during review | |
| Pad 1 | PERM | 54 | G | Y | Y | Y | Y | Y | NA | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | | | |
| 48 | PERM | 54 | G | Y | Y | Y | Y | Y | NA | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | LA00000068999 | noted roof leaking during rain event | Y |
| Pad 10 | PERM | 54 | G | | | | | | NA | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | | No waste in storage during review. Signs in need of repair. Cracks noted in asphalt | |
| 232 | PERM | 54 | G | Y | Y | Y | Y | Y | NA | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | WS42272 - LA00000069612 | | Y |
| 230 | PERM | 54 | G | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | | FML liner intact | |
| 229 | PERM | 54 | G | | | | | | NA | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | WS 44167 | | Y |

### E.1.5 NEW MEXICO SPECIAL WASTE

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance |
|---|---|---|---|---|
| 20.9.8.1 | Issuing Agency | New Mexico Environmental Improvement Board | NA | |
| 20.9.8.2 | Scope | This part applies to the transportation, storage, transfer, processing, transformation, recycling, composting, nuisance abatement and disposal of solid waste. | NA | |
| 20.9.8.3 | Statutory Authority | NMSA 1978, Sections 74-1-1 to 74-1-15, NMSA 1978, Sections 74-9-1 to 74-9-43, and NMSA 1978 Sections 74-13-1 to 74-13-20 | NA | |
| 20.9.8.4 | Duration | Permanent | NA | |
| 20.9.8.5 | Effective Date | August 2, 2007, unless a later date is cited at the end of a section. | NA | |
| 20.9.8.6 | Objective | The objective of Part 8 of Chapter 9 is to establish regulations governing the management of special waste, including manifest requirements for the transportation of special waste. | NA | |
| 20.9.8.7 | Definitions | Reserved | NA | |
| 20.9.8.8 | General | The generator of a special waste shall assure that the special waste is disposed of in a solid waste facility permitted to accept the special waste or treated at a permitted facility, prior to disposal, to render it a non-special waste. | Y | Procedure and manifests to permitted facilities |
| 20.9.8.9 | Restrictions | A. No solid waste facility shall accept special waste unless the facility owner or operator has been issued a permit to accept that type of special waste for disposal, transfer, processing, or transformation.<br>B. No person may incinerate infectious waste except in an infectious waste incinerator permitted under 20.9.2 - 20.9.10 NMAC.<br>C. A hauler of special waste shall not deliver special waste to any place or person except to a facility that has been issued a permit to accept that type of special waste for disposal, transfer, processing or transformation. | Y | |
| 20.9.8.10 | General Requirements for Special Waste | A. Any person who stores a special waste shall assure that the special waste is stored at designated special waste storage areas meeting the requirements of 20.9.8 NMAC. | Y | Site visits of SWAs |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance |
|---|---|---|---|---|
| | | B. No person who stores special waste shall store the waste for longer than 90 days from the date the waste is placed in storage awaiting transportation, processing, or final disposal, unless otherwise approved by the department, except no person other than the generator shall store infectious waste for over seven days without refrigeration at or below 45 degrees Fahrenheit. | Y | Accumulation dates marked and only sharps for infectious. Procedure. |
| | | C. A generator of special waste shall assure that all containers of special waste when deemed full and placed in storage are clearly labeled or marked, indicating the name and address of the generator, contents, date placed in storage and potential health, safety, and environmental hazards associated with the waste. | Y | Labeling |
| | | D. A generator of special waste shall assure that all containers of special waste that are prepared for transportation are clearly labeled or marked, indicating the name and address of the generator, contents, and potential health, safety, and environmental hazards associated with the waste. | Y | Containers and labeling |
| | | E. A hauler of special waste shall assure that all containers of special waste are clearly labeled or marked prior to transportation, indicating the name and address of the generator, contents, date transported, and potential health, safety, and environmental hazards associated with the waste. | NA | |
| | | F. Any generator or hauler of special waste shall assure that a manifest in accordance with 20.9.8.19 NMAC accompanies each load of special waste originating in or to be disposed in New Mexico; | Y | Manifests |
| | | G. A hauler of special waste shall carry an appropriate clean-up kit in each vehicle used for hauling. | NA | Who picks up or moves (external or internal hauler from each SWA) |
| 20.9.8.11 | Required Analysis | A. The generator of a special waste shall document the physical and chemical characteristics of all special wastes for storage, transportation or disposal, by means of:<br>(1) records of the results of analyses performed in accordance with this section as applicable; or<br>(2) detailed descriptions of the generator's knowledge of specific wastes, including process, source and chemical and physical properties;<br>(3) or both. | Y | Labeling and analysis if needed |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance |
|---|---|---|---|---|
| | | B. All laboratory analyses shall be performed by a laboratory that follows U.S. EPA quality assurance and quality control procedures in accordance with U.S. EPA approved analytical methods or such other methods acceptable to the department. | Y | RFA, laboratory analysis. No lab identified on COC or data report |
| | | C. Representative sample(s) shall be analyzed in conformance with the following parameters as appropriate:<br>(1) ignitability characteristic as defined in 40 CFR Part 261;<br>(2) corrosivity characteristic as defined in 40 CFR Part 261;<br>(3) reactivity characteristic as defined in 40 CFR Part 261;<br>(4) toxicity characteristic as defined by U.S. EPA test method 1311: toxicity characteristic leaching procedure (TCLP);<br>(5) paint filter liquids test as defined by U.S. EPA Test Method 9095;<br>(6) additional parameters as identified by the department;<br>(7) RCRA Subtitle C listed wastes as defined in 40 CFR Part 261; and<br>(8) Toxic Substance Control Act (TSCA), Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), or other applicable statutes. | Y | Laboratory analysis, procedure |
| 20.9.8.12 | Asbestos Waste | A. The generator of asbestos waste shall prevent public access to asbestos wastes at the point of generation. Haulers of asbestos waste shall prevent public access to asbestos waste during transportation. | Y | Secured containers |
| | | B. Generators of asbestos waste shall determine whether the asbestos waste is regulated asbestos waste. If it is not regulated asbestos waste, and it is to be disposed as non-regulated asbestos waste, the generator shall assure that the asbestos waste is handled in a manner to prevent the asbestos waste from becoming regulated asbestos waste. The handling of non-regulated asbestos waste shall include measures to assure that any category I non-friable asbestos containing material is not subjected to sanding, grinding, cutting or abrading and that any category II non-friable asbestos containing material is not subjected to forces expected to break, crumble, pulverize or reduce the material to powder during the course of excavation, renovation, demolition, or storage, and that it is disposed at a permitted landfill. If the waste is regulated asbestos waste it shall be disposed at a landfill permitted to accept regulated asbestos waste and shall be handled accordingly. | Y | Procedure |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance |
|---|---|---|---|---|
| | | C. If non-regulated asbestos waste is to be disposed as non-regulated asbestos waste, the hauler of non-regulated asbestos waste shall handle the waste in a manner to prevent the asbestos waste from becoming regulated asbestos waste. The handling of non-regulated asbestos waste by a hauler shall include measures to assure that any category I non-friable asbestos containing material is not subjected to abrading and that any category II non-friable asbestos containing material is not subjected to forces expected to break, crumble, pulverize or reduce the material to powder during the course of storage, transportation, or while exposed during disposal operations. The hauler shall notify the landfill operator that the load contains non-regulated asbestos waste that must be disposed of in a manner to prevent breakage and release of fibers while exposed during disposal operations. | NA | Not an asbestos hauler |
| | | D. A landfill that accepts non-regulated asbestos waste shall assure that the asbestos containing material is not broken, abraded, crumbled, pulverized or reduced to powder while exposed during disposal operations. The non-regulated asbestos waste shall be covered with at least six inches of non-waste containing material prior to compaction. | NA | Do not landfill at LANL |
| | | E. The generator of regulated asbestos waste shall properly wet and containerize the waste. No hauler shall accept or transport regulated asbestos waste unless the waste has been properly wetted and containerized.<br>(1) Regulated asbestos waste is properly wetted when its moisture content prevents fiber release.<br>(2) Regulated asbestos waste is properly containerized when it is placed in a plastic bag of 6-mil or thicker, sealed in such a way to be leak-proof, and the amount of void space or air in the bag is minimized. Asbestos waste slurries shall be packaged in leak-proof drums if they are too heavy for the plastic bag containers. Regulated asbestos waste may also be containerized by double bagging, using plastic-lined cardboard containers, plastic-lined metal containers, or the use of vacuum trucks for the transport of slurry.<br>(a) Pipes or other facility components that are removed as sections without first removing the asbestos shall be wrapped in a minimum of 6-mil plastic sufficient to prevent asbestos fibers from escaping.<br>(b) The hauler shall ensure that regulated asbestos waste is properly contained in a manner to prevent asbestos fibers from | Y | Labeling, bagging, and containers. |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance |
|---|---|---|---|---|
| | | escaping and with appropriate labels, and that the outsides of the containers are not contaminated with asbestos debris adhering to the containers. The transporter shall not accept nor transport regulated asbestos waste if there is a reason to believe that the condition of the asbestos waste may allow fiber release.<br>(3) The hauler shall ensure that the regulated asbestos waste containers are loaded into the transport vehicle in a manner which prevents the breaking of the containers. The hauler shall ensure that the asbestos waste containers are transferred at the disposal site in such a manner to prevent fiber release.<br>(a) If the hauler discovers that the regulated asbestos waste is not properly containerized in conformance with Paragraph (2) of this subsection, the hauler shall immediately clean up the contaminated area and repair or reseal the container by appropriate methods. The department shall be notified of any release within 24 hours. The transporter shall ensure that all containers in his possession are of adequate design and condition to prevent the release of fibers during transport.<br>(b) Vehicles used for transport of containerized regulated asbestos waste shall have an enclosed carrying compartment or utilize a canvas or plastic lined covering sufficient to contain the transported waste, prevent damage to containers, and prevent fiber release. All surfaces of vehicles and other asbestos handling equipment and facilities shall be maintained free from the accumulation of dusts and waste containing asbestos and shall have a smooth, non-absorbent finish. No vehicle which uses compactors to reduce waste volume may be used to transport asbestos waste. Vacuum trucks used to transport waste slurry shall be inspected to ensure that liquid is not leaking from the truck.<br>(c) The hauler of the regulated asbestos waste shall notify the landfill operator that the load contains regulated asbestos waste. | | |
| | | F. All regulated asbestos containers, to include individually wrapped facility components or pipes, shall have a warning label specified by the U.S. EPA or the occupational safety and health administration (OSHA). Labels shall be printed in both English and Spanish. | Y | Procedure and practice support |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance |
|---|---|---|---|---|
| | | G. The operator of a landfill permitted to accept regulated asbestos waste shall:<br>(1) inspect the loads at the time of disposal at the landfill to verify that the regulated asbestos waste is properly contained and labeled;<br>(2) if the wastes are not properly containerized and the landfill operator accepts the load, thoroughly soak the asbestos with a water spray prior to unloading, rinse out the truck, and immediately cover the wastes with non-waste containing material to prevent fiber release, prior to compacting the waste in the landfill;<br>(3) prepare a separate excavation to receive only regulated asbestos wastes; the excavation shall be as narrow as possible while complying with all occupational safety and health administration (OSHA) regulations and standards;<br>(4) align the excavation perpendicular to the prevailing winds;<br>(5) off-load asbestos containers within the excavation with sufficient care to avoid breaking the containers;<br>(6) completely cover the containerized waste within 18 hours with a minimum of six inches of non-waste containing material;<br>(7) completely cover improperly containerized regulated asbestos waste with six inches of non-waste containing material immediately; and<br>(8) not compact the regulated asbestos waste until it is completely covered with six inches of non-waste containing material. | NA | |
| | | H. If, at any time during the generation or transportation of non-regulated asbestos waste the waste material is subjected to handling that renders it to be regulated asbestos waste, the generator or hauler shall immediately begin handling the regulated asbestos waste according the requirements of this part, and shall dispose of the regulated asbestos waste in a landfill or monofill permitted to accept such waste. | Y | |
| | | I. When closing a cell containing regulated asbestos waste, the landfill operator shall:<br>(1) cover with an additional 30 inches of compacted non-waste containing material to provide a 36-inch final cover to the original grade; and<br>(2) implement measures as necessary to control erosion and rodent intrusion. | NA | |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance |
|---|---|---|---|---|
| | | J. The operator of a landfill that accepts regulated asbestos shall provide barriers adequate to control public access. At a minimum, the owner or operator shall:<br>(1) limit access to the regulated asbestos management site to no more than two entrances by gates that can be locked when left unattended and by fencing adequate to deter access by the general public: and<br>(2) place warning signs at the entrance and at intervals no greater than 100 feet along the perimeter of the sections where regulated asbestos waste is deposited. The sign shall read as follows in English and other languages as approved by the department:<br>ASBESTOS WASTE DISPOSAL SITE<br>DO NOT CREATE DUST<br>BREATHING ASBESTOS IS HAZARDOUS<br>TO YOUR HEALTH<br>the signs shall be posted in such a manner and location that a person can easily read the legend and conform to the requirements of 20 inches by 14 inches upright format signs specified in 29 CFR 1910.145(d)(4) (or equivalent regulation adopted by the board under the Occupational Health and Safety Act); spacing between any two lines shall be at least equal to the height of the upper of the two lines; and<br>(3) have at least one employee who has received at least 32 hours of course work in a U.S. EPA certified training course which deals with the identification, hazards and management of asbestos wastes. An employee with this training shall be present at all times when asbestos wastes are being disposed. | NA | |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance |
|---|---|---|---|---|
| 20.9.8.13 | Infectious Waste | A. This section applies:<br>(1) without regard to the quantity of infectious waste generated, to any generator of infectious waste including, but not limited to:<br>(a) general acute care hospitals;<br>(b) skilled nursing facility or convalescent hospitals;<br>(c) intermediate care facilities;<br>(d) in-patient care facilities for the developmentally disabled;<br>(e) dialysis clinics;<br>(f) free clinics;<br>(g) community clinics;<br>(h) employee clinics;<br>(i) health maintenance organizations;<br>(j) home health agencies;<br>(k) surgical clinics;<br>(l) urgent care clinics;<br>(m) acute psychiatric hospitals;<br>(n) blood/plasma centers;<br>(o) laboratories;<br>(p) medical buildings;<br>(q) physicians offices;<br>(r) veterinarians;<br>(s) dental offices;<br>(t) acupuncturists;<br>(u) funeral homes;<br>(v) eye clinics; and<br>(w) tattoo parlors and body-piercing establishments; and<br>(2) to all infectious waste storage areas, processing, transformation, transfer and disposal facilities, other than sewage treatment systems that provide secondary treatment of waste. | NA | Intro |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance |
|---|---|---|---|---|
| | | B. All material that has been rendered non-infectious is not subject to the handling requirements of this section, provided:<br>(1) if it is an otherwise regulated, hazardous, special, or radioactive waste, it shall be handled according to regulations applicable to that type of waste;<br>(2) any person that processes or transforms infectious waste shall certify in writing on at least an annual basis, or upon any change that could affect the efficacy of the treatment that the waste has been rendered non-infectious by sterilization, incineration or another method approved by the secretary; a certification that the waste has been rendered non-infectious shall be provided to the generator, transporter, and disposal facility; the generator, processing or transformation facility, and disposal facility shall maintain copies of certifications for a period of three years and the records shall be made available to the department upon request; and<br>(3) the operator of the disposal facility applies daily cover as required in 20.9.5.9 NMAC prior to any compaction of the sharps. | Y | Training / waste characterization |
| | | C. The following storage and containment requirements apply to all infectious waste.<br>(1) Containment shall be in a manner and location which affords protection from animal intrusion, does not provide a breeding place or a food source for insects and rodents, and minimizes exposure to the public.<br>(2) Infectious waste shall be segregated by separate containment from other waste at the point of origin.<br>(3) Except for sharps, infectious waste shall be contained in plastic bags inside rigid containers. The bags shall meet the testing requirements specified by 40 CFR 173.197. All bags used for containment purposes shall be red or orange and clearly identified as specified in 29 CFR 1910.145(f). The bags shall be securely tied to prevent leakage or expulsion of solid or liquid wastes during storage, handling or transport.<br>(4) Sharps shall be contained for storage, transportation, transfer, processing, transformation, and disposal in leak-proof, rigid, puncture-resistant containers which are manufactured for the purpose of sharps containment and are taped closed or tightly lidded to preclude loss of contents.<br>(5) Rigid containers shall be labeled "biomedical waste", or otherwise conspicuously labeled as holding infectious waste, or placed in disposable bags used for other infectious waste. Rigid | Y | Sharps/biohazard containers, labels, segregation |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance |
|---|---|---|---|---|
| | | containers shall meet or exceed the requirements of 49 CFR 173.197 including that the containers be:<br>(a) rigid;<br>(b) leak resistant;<br>(c) impervious to moisture;<br>(d) of sufficient strength to prevent tearing or bursting under normal conditions of use;<br>(e) sealed to prevent leakage during transport; and<br>(f) puncture resistant for sharps and sharps with residual fluids.<br>(6) If other waste is placed in the same container as regulated infectious waste, then the generator shall package, label and mark the container and its entire contents as infectious waste.<br>(7) Rigid infectious waste containers may be reused for infectious or non-infectious waste if they are thoroughly washed and decontaminated each time they are emptied or the surfaces of the containers have been completely protected from contamination by disposable, unpunctured or undamaged liners, bags, or other devices that are removed with the infectious waste, and the surface of the containers have not been damaged or punctured.<br>(8) Storage and containment areas shall protect infectious waste from the elements, be ventilated to the outdoors (unless refrigerated), provide refrigeration as necessary, be only accessible to authorized persons, and be marked with prominent warning signs on, or adjacent to, the exterior doors or gates. The warning signs shall be easily read during daylight from a distance of 25 feet.<br>(9) Generators of infectious waste, shall place sufficient absorbent material inside the rigid container or liner of the rigid container sufficient to absorb the entire amount of liquid present in the event of an unintentional release of contents, as specified in 49 CFR 173.197.<br>(10) Compactors, grinders or similar devices shall not be used to reduce the volume of infectious waste before the waste has been rendered non-infectious unless prior approval has been obtained from the department. | | |
| | | D. All generators of infectious waste shall dispose of the infectious waste at a facility permitted to process, store or dispose of infectious waste. | Y | |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance |
|---|---|---|---|---|
| | | E. All infectious waste generation, processing, transformation, transfer, storage and disposal facilities subject to this section shall comply with the following operational requirements.<br>(1) Every person who generates, transports, stores, processes, or disposes of infectious waste shall prepare and maintain on file a management plan for the waste that identifies the type of waste the person generates or handles, the segregation, packaging, labeling, collection, storage, method of storage, and transportation procedures to be implemented, the processing, transformation or disposal methods that will be used, the transporter and disposal facility that will be used, and the person responsible for the management of the infectious waste.<br>(2) All infectious waste management facilities may only accept infectious waste that is accompanied by a manifest that contains the information required by 20.9.8.19 NMAC.<br>(3) Report to the secretary any delivery of unauthorized waste, contamination of any person, or other emergencies immediately upon recognition.<br>(4) Human fetal remains, as defined by the state medical investigator, when measured to be 500 grams or greater, shall be disposed by incineration or interment.<br>(5) Infectious waste consisting of recognizable human anatomical remains shall be disposed by incineration or interment, unless such remains are subject to different treatment or disposal standards due to contamination by a hazardous or radioactive substance. Recognizable human anatomical remains may be released to the patient, proper governmental authority, or designated family member for interment or incineration, as long as all forensic needs of the facility have been met and the release is not in violation of any other law. | Y | Procedure and lab specific plan |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance |
|---|---|---|---|---|
| | | F. Processing, transformation and disposal of infectious waste shall be by one of the following methods:<br>(1) incineration in a controlled air multi-chambered incinerator which provides complete combustion of the waste to carbonized or mineralized ash:<br>(a) ash from the incinerator shall be sampled in accordance with Subsection B of 20.9.8.11 NMAC;<br>(b) the sample shall be analyzed by the U.S. EPA test method 1311: toxic characteristics leaching procedure (TCLP) to determine if it is a hazardous waste; if hazardous, it shall be managed by applicable state regulations;<br>(c) the retention times and temperatures for each chamber shall be continuously measured and recorded, or other equivalent tests approved by the department to determine if it is still infectious shall be performed; if infectious, it shall be reincinerated in accordance with this section; and<br>(d) charge rates shall be maintained and recorded;<br>(2) sterilization by heating in a steam sterilizer so as to render the waste non-infectious:<br>(a) the operator shall have available and shall certify in writing that she or he understands written operating procedures for each steam sterilizer including time, temperature, pressure, type of waste, type of container(s), closure on container(s), pattern of loading, water content, and maximum load quantity;<br>(b) infectious waste shall be subjected to sufficient temperature, pressure and time to kill Geobacillus stearothermophilus spores or induce a complete color change in an approved steam sterilization integrator when either indicator is located in the center of the waste load being decontaminated;<br>(c) unless a steam sterilizer is equipped to continuously monitor and generate a printed paper record of time, temperature and pressure during the entire length of each sterilization cycle, a chemical indicator shall be attached to each package of infectious waste that will visually demonstrate at the end of the autoclave cycle that each package was exposed to a temperature of at least 250 degrees fahrenheit or 121 degrees celsius in the presence of steam under pressure was reached during the process; the original printed record generated by the autoclave must be maintained for three years;<br>(d) each sterilization unit shall be evaluated for effectiveness with spores of Geobacillus stearothermophilus or approved steam sterilization integrator at least once each 40 hours of operation; and | NA | No treatment or disposal at LANL |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance |
|---|---|---|---|---|
| | | (e) a written log shall be maintained for each sterilization unit which contains:<br>(i) date, time and load number for each load;<br>(ii) amount per load;<br>(iii) duration of the cycle; and<br>(iv) the operator's name;<br>(3) discharge to a sewage treatment system that provides secondary treatment of waste, if the waste is liquid or semi-solid and approved in writing by the operator of the sewage treatment system; or<br>(4) other products or methods may be approved by order of the secretary which provide:<br>(a) a 6Log10 reduction in mycobacteria of Mycobacterium phlei or Mycobacterium bovis (BCG) or if specifically approved, other Mycobacterium species;<br>(b) a 4Log10 reduction in bacterial spores of Geobacillus stearothermophilus, Bacillus atrophaeus or if specifically approved, other species of spore-forming bacterium; and<br>(c) verification that the species used in Subparagraphs (a) and (b) of Paragraph (4) of this subsection are the species indicated and that the strain used is appropriate for the proposed method. | | |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance |
|---|---|---|---|---|
| | | G. The following requirements and condition shall apply to any person seeking approval from the secretary for a treatment method under Paragraph (4) of Subsection F of this section:<br>(1) the person shall provide any information requested by the secretary within the time period specified by the secretary;<br>(2) the request for approval shall be approved, approved with terms and conditions, or denied by the secretary;<br>(3) within 45 days from the end of each calendar year, manufacturers of on-site treatment or processing products approved by the secretary shall submit an annual report to the department that includes:<br>(i) current manufacturer's company name, contact names, addresses, and telephone numbers;<br>(ii) a current list of product consumers or clients in New Mexico identified as generators of infectious waste under Subsection A of 20.9.8.13 NMAC, with contact names, addresses, and telephone numbers;<br>(iii) proof of current registration with the U.S. EPA, if required under the Federal Insecticide, Fungicide, and Rodenticide Act;<br>(iv) a current material safety data sheet for any materials used in the treatment method;<br>(v) a current copy of the manufacturer's instructions as printed on the product and a copy of the most recent operator's manual, if not previously submitted; and<br>(vi) proof of current registration with the New Mexico department of agriculture, if required under the New Mexico Pesticide Control Act;<br>(4) the secretary may withdraw the approval of an on-site processing product if the product fails to properly treat infectious waste as claimed, or if the on-site processing product or method is altered in any manner; to withdraw the approval, the secretary shall issue an order withdrawing the approval; the interested person may appeal the secretary's order by filing a request for hearing within 30 days of the date of the secretary's order; the procedures set forth in Adjudicatory Procedures - Environment Department, 20.1.5 NMAC shall apply to the appeal. | NA | No treatment or disposal at LANL |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance |
|---|---|---|---|---|
| 20.9.8.14 | Ash | A. Transporters of ash shall:<br>(1) not accept or transport ash unless it has been treated or is securely covered or containerized to prevent release of fugitive dust;<br>(2) cover vehicles to prevent fugitive dust loss during transport; and<br>(3) line or seal vehicles in a manner to prevent any leakage of liquids or fugitive dust during transport. | NA | |
| | | B. The landfill owner or operator that accepts ash shall:<br>(1) prepare an excavation to receive non-hazardous ash;<br>(2) provide a ground water monitoring system and a leachate collection system unless an adequate demonstration is made to the secretary that such systems are not necessary;<br>(3) keep the ash wetted to prevent fugitive emissions prior to covering;<br>(4) unload transport vehicles at the bottom of the excavations; and<br>(5) completely cover the ash within 24 hours with a minimum of six inches of clean non-waste containing material, or other material approved by the secretary; if the ash is containerized, an alternate frequency may be specifically approved. | NA | |
| | | C. The landfill owner or operator that accepts ash shall provide barriers adequate to control public access and shall:<br>(1) limit access to the ash site to no more than two entrances, by:<br>(a) gates that can be locked when left unattended; and<br>(b) fencing adequate to deter access by the general public; or<br>(2) when excavations are used at a landfill, isolate such excavations from the rest of the facility in a manner to deter access by the general public. | NA | |
| | | D. Ash that is temporarily stored at a generation site awaiting transportation shall be stored in a manner so as to prevent fugitive dust emissions. | Y | Burning ground ash drummed. |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance |
|---|---|---|---|---|
| 20.9.8.15 | Petroleum Contaminated Soils | A. The generator of petroleum contaminated soil shall assure that all petroleum contaminated soils to be disposed, processed, composted, or transformed at a solid waste facility shall be tested under the requirements of 20.9.8.11 NMAC.<br>(1) All soils that are suspected to be contaminated with petroleum products shall be tested for total petroleum hydrocarbons (TPH) and other contaminants as required by the disposal management plan to determine the contaminants of the soil.<br>(2) The frequency of sampling shall be one representative sample per 100 cubic yards of contaminated soil, unless an alternate frequency is permitted or specifically approved by the secretary upon a demonstration that the contaminated soil is homogeneous.<br>(3) Copies of the results from the laboratory analyses shall be placed in the operating record. | Y | Procedures, Analysis, Records |
| | | B. Petroleum contaminated soils containing free liquid shall not be accepted at a solid waste facility. When the soil can pass the paint filter liquids test, the test results shall be placed in the daily operating record and made available to the secretary upon request. | NA | No free liquids |
| | | C. Petroleum contaminated soil may be stored temporarily or remediated at a solid waste facility in a bermed area on an impermeable liner or in a manner that does not contaminate ground water, surface water, or uncontaminated soil above regulatory limits. The method of storage, remediation, and testing shall be described in the disposal management plan. Remediation shall be complete when the following conditions are met in a soil sample:<br>(1) the sum of benzene, toluene, ethylbenzene, and xylene isomer concentrations is less than 500 mg/Kg, with benzene individually less than 10 mg/Kg; and<br>(2) the TPH concentration is less than 1,000 mg/Kg. | Y | |
| | | D. Remediated petroleum contaminated soil may be disposed at a landfill authorized to accept petroleum contaminated soils. Petroleum contaminated soils that have been remediated at the landfill may be removed only if the soil complies with applicable environmental laws. Remediated petroleum contaminated soil may not be removed from the facility for beneficial use as clean fill, as the soil does not constitute clean fill as defined in Paragraph (4) of Subsection C of 20.9.2.7 NMAC. | NA | |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance |
|---|---|---|---|---|
| | | E. Uncontaminated or remediated soils shall not be mixed with contaminated soils. | Y | |
| | | F. The owner or operator shall provide a written report to the department documenting remediation. | NA | No remediation |
| | | G. Permitted facilities not otherwise authorized to accept petroleum contaminated soil for remediation may remediate petroleum contaminated soil generated at the facility, provided the volume of contaminated soil does not exceed 50 cubic yards and the area where the petroleum contaminated soil is remediated is restricted from public access. Remediation shall be complete when the soil meets the standards in 20.5.12.1202 NMAC or other applicable standards. | NA | |
| 20.9.8.16 | Sludge | A. The owner or operator of a landfill may dispose or use sludge as an amendment to intermediate or final cover material provided:<br>(1) the landfill owner or operator has been issued a permit to dispose of sludge or has received specific approval from the secretary to use sludge as an amendment to intermediate or final cover material, respectively;<br>(2) the sludge does not exceed the test parameters specified in Subsection D of this section; and<br>(3) the sludge contains no free liquids as determined by the paint filter liquids Test (U.S. EPA test method 9095), unless permitted to do otherwise under 20.9.4.17 NMAC. | NA | |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance |
|---|---|---|---|---|
| | | B. The owner or operator of a solid waste facility that is authorized to accept sludge shall have an approved disposal management plan that shall, at a minimum:<br>(1) describe the methods used to:<br>(a) obtain representative samples of sludge for analysis; and<br>(b) analyze the sludge for the parameters specified in Subsection D of this section to demonstrate the sludge is non-hazardous and passes the paint filter liquids test, unless otherwise permitted under 20.9.4.17 NMAC;<br>(2) identify the laboratory used to analyze the sludge and include a certification that, to the best of the preparer's knowledge and belief, the laboratory follows quality assurance and quality control procedures in accordance with U.S. EPA approved methods;<br>(3) describe the transport method, indicate transportation routes that will be used by the transport vehicles, and demonstrate that the transport method will prevent leaks and litter;<br>(4) describe the anticipated volumes to be transported and total time period for disposal of any sludges;<br>(5) describe any plans for continuation of landfill disposal of the sludge, including how often sludge will be tested and transported to the landfill and how long the sludge will be stored at the landfill prior to disposal;<br>(6) provide a site map indicating the solid waste facility boundaries, the location of the sludge disposal area, and the routes of the disposal vehicles once they enter the facility; and<br>(7) include the portion of the facility's contingency plan a section describing methods for clean-up if an accident should occur during transport or disposal; | NA | |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance |
|---|---|---|---|---|
| | | C. In addition to the requirements of Subsection A of this section, all owners or operators that dispose of sewage sludge or use sewage sludge as an amendment to cover material at a landfill shall meet the following requirements prior to disposal or use as a cover material amendment:<br>(1) obtain at least one representative sample per 100 cubic yards of sludge for analysis of the parameters listed in Subsection D of this section, but an alternate frequency may be permitted or specifically approved by the secretary if a demonstration is made that the sludge is homogeneous;<br>(2) cover the sludge with six inches of clean earthen material or other suitable material at the end of the day in order to be excluded from the 40 CFR Part 503 pathogen reduction criteria;<br>(3) restrict the treatment area from public access until the sludge is either placed in a disposal cell and covered or until it meets the requirements of 40 CFR Part 503; and<br>(4) ensure that all sewage sludge complies with 40 CFR Part 503, Subpart B before it is used as an amendment to intermediate or final cover. | NA | |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance |
|---|---|---|---|---|
| | | D. Prior to delivery of sludge to a solid waste facility for disposal, the generator shall test a representative sample for the following parameters to determine if it exceeds the specified limits below:<br>(1) no free liquids as determined by paint filter liquids test (U.S. EPA test method 9095), unless exempt in accordance with 20.9.4.17 NMAC;<br>(2) percent solids (no specified limits);<br>(3) pH, within the range of 2.0 to 12.5;<br>(4) polychlorinated biphenyls (PCB's), less than 50 mg/Kg; and<br>(5) toxicity characteristic leaching procedure (TCLP) (U.S. EPA test method 1311), for the following parameters and maximum allowable concentrations:<br>(a) arsenic, 5.0 mg/L;<br>(b) benzene, 0.5 mg/L;<br>(c) cadmium,1.0 mg/L;<br>(d) chlordane, 0.03 mg/L;<br>(e) chromium, 5.0 mg/L;<br>(f) 2,4-Dichlorophenoxy-acetic acid, 10.0 mg/L;<br>(g) lead, 5.0 mg/L;<br>(h) lindane, 0.4 mg/L;<br>(i) mercury, 0.2 mg/L;<br>(j) methyl ethyl ketone, 200.0 mg/L; and<br>(k) toxaphene, 0.5 mg/L. | Y | Laboratory records |
| 20.9.8.17 | Packing House and Killing Plant Offal | The owner or operator of a solid waste facility that is authorized to accept offal shall have an approved disposal management plans for packing house and killing plant offal ensuring that, prior to disposal at the working face of a landfill, the wastes shall:<br>A. pass the paint filter liquids test (U.S. EPA test method 9095);<br>B. be mixed with soil, in a separate area of the facility, to a consistency that will support compaction and cover material; and<br>C. be covered immediately after disposal. | NA | |
| 20.9.8.18 | Disposal of Special Waste Not Otherwise Specified | Any solid waste facility owner or operator who wishes to be permitted to receive special wastes that do not have specified disposal requirements shall submit a disposal management plan, as specified in Subsection C of 20.9.3.9 NMAC, to the department for approval. | NA | |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance |
|---|---|---|---|---|
| 20.9.8.19 | Manifest Requirements | A. Each generator or his authorized agent shall prepare a manifest to accompany each load of special waste, including:<br>(1) the name, address and telephone number of the generator and origin of the special waste;<br>(2) the name, address and telephone number of all haulers in the order each will be transporting the waste;<br>(3) the name, site address, telephone number and identification number of the solid waste facility to which the waste is to be delivered;<br>(4) the type and proper name of waste being shipped;<br>(5) the total weight or volume of waste prior to shipment from the generator;<br>(6) the type and number of containers in the shipment; and<br>(7) any special handling instructions. | Y | Manifest |
| | | B. The generator or his authorized agent shall sign the manifest and obtain the signature of the initial transporter and date of acceptance on the manifest, and shall retain a copy of the manifest. Each hauler shall obtain the signature of the individual who accepts the special waste for storage, further transportation or disposal, retain a copy of the manifest, and provide the original manifest to the next hauler or solid waste facility operator who receives the special waste. | Y | Manifest |
| | | C. The manifest shall accurately reflect the required information and shall be signed and dated by the generator and each hauler of the special waste, and by the solid waste facility owner or operator, acknowledging delivery, weight or volume, and receipt of the special waste. All signatories shall be duly authorized agents of their organizations. The generator shall keep a copy of the originating manifest for three years. | Y | Manifest |
| | | D. Upon discovery of any significant discrepancy including, but not limited to, factual misrepresentation on the manifest, irregularities in transportation, discharges, or any unauthorized action in regard to the shipment, delivery, or disposal of the solid waste, the person discovering the discrepancy shall notify the department, the generator, hauler, and the solid waste facility operator in writing within 24 hours. | Y | No discrepancies noted. |

| Permit Section | Section Title | Permit Requirement | Compliance Status (Y/N) | Method of Compliance |
|---|---|---|---|---|
| | | E. Within 30 days of receipt of a special waste shipment at the solid waste facility, the owner or operator shall send the original signed copy of the manifest to the generator, acknowledging receipt of the shipment. The facility owner or operator shall list any discrepancies on the manifest. Other methods of return of the manifest may be allowed upon specific approval from the secretary. | Y | |
| | | F. A copy of the manifest shall be retained by each hauler, and solid waste facility operator for their operating records. The generator shall retain for a period of three years both the originating copy and the returned original manifest signed by the solid waste facility owner or operator and all haulers transporting the waste. Haulers shall retain a copy of the manifest for a period of three years. | Y | Manifests |
| | | G. Copies of the manifest shall be retained by the facility owner or operator throughout any post-closure period. | Y | |

## E.2 Observation Forms

The Review Team made the following observations while assessing Los Alamos National Laboratory's compliance with the hazardous waste facility permit and compliance with associated waste regulations.

# SEP – Second Triennial Review Observation Form

*PRE-DECISIONAL*

**Observation No.:** HW-001 **Category:** Labeling

**Observation Title:** Drum label not visible

**Observation Type:** II - Potential Environmental Regulatory Violation

**Date:** 6/21/2021

**Technical Area:** TA-03 **Location:** CAA 51040

**Operational Entity:** Triad

**Reference:** 40 CFR 262.17(a)(5)(A-B) and 49 CFR 172

**Requirement:**

Drums should be stored with labels visible and must appear in their entirety.

**Notes:**

Area was very crowded with containers at the back of the laboratory. CAA should not be obscured by items not required to be in CAA.

**Recommendation:**

Ensure drums are stored with labels visible.

**Response:**

During the review, drums were turned so that the labels were visible and no longer obscured.

**Status:** Closed **Reviewer:** Mark Vetter

# SEP – Second Triennial Review Observation Form

*PRE-DECISIONAL*

**Observation No.:** HW-002 **Category:** Release/Spill

**Observation Title:** Spill kit not nearby

**Observation Type:** II - Potential Environmental Regulatory Violation

**Date:** 6/21/2021

**Technical Area:** TA-03 **Location:** CAA 51040

**Operational Entity:** Triad

**Reference:** 40 CFR 262.252(c)

**Requirement:**

Locate equipment necessary to prepare for and respond to emergencies: spill control equipment (spill kit required and accessible).

**Notes:**

Spill kit was buried under plastic and inaccessible to CAA if needed because it was located behind secondary containment and end of vent hood.

**Recommendation:**

Store spill kit in an area that is readily accessible. Spill kit was uncovered but was still behind the containment.

**Response:**

Spill kit was moved to a visible spot in the CAA with the label out so it could be identified readily.

**Status:** Closed **Reviewer:** Mark Vetter

# SEP – Second Triennial Review Observation Form

*PRE-DECISIONAL*

**Observation No.:** HW-003 **Category:** Labeling

**Observation Title:** Unlabeled Non-Hazardous Drums in SWA

**Observation Type:** Efficiency / Improvement Recommendation

**Date:** 6/21/2021

**Technical Area:** TA-36 **Location:** SWA 3902

**Operational Entity:** Triad

**Reference:** Best Management Practices

**Requirement:**

NA.

**Notes:**

In the Special Waste Storage Area (SWA), UWA, UOA and CAA, non-hazardous drums did not have contents labeled. Identification of contents help establish compatibility with other containers stored.

**Recommendation:**

Include contents of non-hazardous waste drums on labels.

**Response:**

Non-Hazardous labels with contents of containers were adhered to the drums.

**Status:** Closed **Reviewer:** Mark Vetter

# SEP – Second Triennial Review Observation Form

*PRE-DECISIONAL*

**Observation No.:** HW-004 **Category:** Labeling

**Observation Title:** Hazardous waste drum with incorrect paper work on drum

**Observation Type:** II - Potential Environmental Regulatory Violation

**Date:** 6/22/2021

**Technical Area:** TA-55 **Location:** Permitted Area 479

**Operational Entity:** Triad

**Reference:** Permit Section 3.6.1(1)

**Requirement:**

Hazardous Waste drums to be labeled.

**Notes:**

Paperwork was left on the drum indicating a liquid drum in an non-liquid storage area. The proper paperwork was beneath the incorrect paperwork.

**Recommendation:**

Check labels on all drums for accuracy.

**Response:**

Non-applicable paper work was removed immediately.

**Status:** Closed **Reviewer:** Mark Vetter

# SEP – Second Triennial Review Observation Form

*PRE-DECISIONAL*

**Observation No.:** HW-005 **Category:** Labeling

**Observation Title:** Hazardous Waste Storage Cabinet with Conflicting Labels.

**Observation Type:** II - Potential Environmental Regulatory Violation

**Date:** 6/22/2021

**Technical Area:** TA-55 **Location:** Permitted 479

**Operational Entity:** Triad

**Reference:** Permit Section 3.6.1

**Requirement:**

Waste storage containers to be properly labeled.

**Notes:**

Storage cabinet had two labels, one stating “Empty,” and the other stating “Hazardous Waste.” Individual containers were labeled as being within the cabinet, but the cabinet was empty.

**Recommendation:**

Remove hazardous waste label if cabinet is empty.

**Response:**

Hazardous waste label was removed from the storage cabinet.

**Status:** Closed **Reviewer:** Amy Swiecichowski

# SEP – Second Triennial Review Observation Form

*PRE-DECISIONAL*

**Observation No.:** HW-006 **Category:** Storage

**Observation Title:** Waste oil drum not completely over secondary containment

**Observation Type:** Efficiency / Improvement Recommendation

**Date:** 6/23/2021

**Technical Area:** TA-39 **Location:** UOA 6710

**Operational Entity:** Triad

**Reference:** NA

**Requirement:**

Waste oil drums to be stored on secondary containment per Spill Prevention Control and Countermeasures requirements

**Notes:**

One drum on left end of storage area was not completely on secondary containment.

**Recommendation:**

Move drum to be over secondary containment.

**Response:**

The Waste Management Coordinator (WMC) moved the drum on 6/24 so that it was completely over the secondary containment.

**Status:** Closed **Reviewer:** Amy Swiecichowski

# SEP – Second Triennial Review Observation Form

*PRE-DECISIONAL*

**Observation No.:** HW-007 **Category:** Labeling

**Observation Title:** Container labeled "Empty," and it has content and Haz Waste Label

**Observation Type:** II - Potential Environmental Regulatory Violation

**Date:** 6/23/2021

**Technical Area:** TA-35 **Location:** SAA 6714

**Operational Entity:** Triad

**Reference:** 40 CFR 262.15(a)(5)

**Requirement:**

Hazardous Waste Containers to be properly labeled

**Notes:**

Small container in glove box had empty written on it and also had a hazardous waste label and content.

**Recommendation:**

Remove or cross out empty label.

**Response:**

The word "empty" was crossed out on the actively used waste container on 6/24.

**Status:** Closed **Reviewer:** Amy Swiecichowski

# SEP – Second Triennial Review Observation Form

*PRE-DECISIONAL*

**Observation No.:** HW-008 **Category:** Storage

**Observation Title:** Secondary containment not adequate

**Observation Type:** Efficiency / Improvement Recommendation

**Date:** 6/23/2021

**Technical Area:** TA-35 **Location:** CAA 6607

**Operational Entity:** Triad

**Reference:** Best Management Practice

**Requirement:**

While secondary containment is not required under regulation, if you use secondary containment it is best practice to use a secondary containment that is able to hold contents of the 55 gallon drum being stored on it.

**Notes:**

Drum was in a shallow tub.

**Recommendation:**

Place drum on larger secondary containment.

**Response:**

Waste container was picked up on 6/24. The WMC identified and was ordering a new secondary containment with the capacity of storing up to 55 gallons.

**Status:** Closed **Reviewer:** Mark Vetter

# SEP – Second Triennial Review Observation Form

*PRE-DECISIONAL*

**Observation No.:** HW-009 **Category:** Release/Spill

**Observation Title:** Spill Kit contents

**Observation Type:** II - Potential Environmental Regulatory Violation

**Date:** 6/21/2021

**Technical Area:** TA-55 **Location:** CAA 6847

**Operational Entity:** Triad

**Reference:** 40 CFR 262.252(c)

**Requirement:**

Locate equipment necessary to prepare for and respond to emergencies: spill control equipment (spill kit required and accessible)

**Notes:**

Spill kit contents included no provisions to manage corrosive materials. Included only spill absorbent materials for oil. Nitric acid container stored in CAA.

**Recommendation:**

Include absorbent material for corrosive material.

**Response:**

The WMC obtained an acid neutralization kit later the same day and placed it in the spill kit.

**Status:** Closed **Reviewer:** Ken Rice

# SEP – Second Triennial Review Observation Form

*PRE-DECISIONAL*

**Observation No.:** HW-010 **Category:** Labeling

**Observation Title:** Non-Hazardous Waste Tote with no content on label

**Observation Type:** Efficiency / Improvement Recommendation

**Date:** 6/22/2021

**Technical Area:** TA-55 **Location:** Cooling Towers

**Operational Entity:** Triad

**Reference:** Best Management Practice

**Requirement:**

NA

**Notes:**

During a visit on behalf of the Industrial NPDES reviewers in TA-55, a tote was observed with a non-hazardous waste label but no contents included on label.

**Recommendation:**

Include contents of container on label.

**Response:**

The totes without contents were corrected to include their contents: boiler water - WSP 48555, TA55 Boiler Water for one, and Vehicle Ram Gate - WSP 49798, Vehicle Ram Gate Water.

**Status:** Closed **Reviewer:** Ken Rice

# SEP – Second Triennial Review Observation Form

*PRE-DECISIONAL*

**Observation No.:** HW-011 **Category:** Labeling

**Observation Title:** Non-Hazardous Waste Tote with no content on label

**Observation Type:** Efficiency / Improvement Recommendation

**Date:** 6/22/2021

**Technical Area:** TA-55 **Location:** 6764

**Operational Entity:** Triad

**Reference:** Best Management Practice

**Requirement:**

NA

**Notes:**

Two totes were observed with non-hazardous waste labels with "Vehicle Ram Gate" identified in the content field of the label. The waste in the totes was unclear from the description of the contents.

**Recommendation:**

Clearly identify the contents of the container on the waste label.

**Response:**

The tote Vehicle Ram Gate was corrected to include its contents - WSP 49798, Vehicle Ram Gate Water.

**Status:** Closed **Reviewer:** Ken Rice

# SEP – Second Triennial Review Observation Form

*PRE-DECISIONAL*

**Observation No.:** HW-012 **Category:** Maintenance

**Observation Title:** Inspection Record with action requirement for repair of asphalt cracks

**Observation Type:** II - Potential Environmental Regulatory Violation

**Date:** 6/22/2021

**Technical Area:** TA-55 **Location:** 480 Permitted Area

**Operational Entity:** Triad

**Reference:** Permit Section 2.6.2

**Requirement:**

Remedy within 24 hrs any deterioration or malfunction of equipment/structure that may lead to environmental or health hazard.

**Notes:**

Inspection records specifying asphalt repair were noted since Feb 28, 2020 (FSR #222436).

**Recommendation:**

Repair permitted units to permit specified operating condition.

**Response:**

New work order WO#699865-01 was opened after asphalt improvements were still needed (i.e., cracking) after the boundary of the permitted area was improved. Road and grounds crew plan to complete work this fall (2021) when physical conditions allow.

**Status:** Open **Reviewer:** Ken Rice

# SEP – Second Triennial Review Observation Form

*PRE-DECISIONAL*

**Observation No.:** HW-013 **Category:** Labeling

**Observation Title:** Product Stored with hazardous waste in SAA

**Observation Type:** II - Potential Environmental Regulatory Violation

**Date:** 6/23/2021

**Technical Area:** TA-03 and TA-35 **Location:** SAA 2756 and SAA 6368, respectively

**Operational Entity:** Triad

**Reference:** 40 CFR 262.15(a)(5)

**Requirement:**

Label all containers with "Hazardous Waste."

**Notes:**

Material co-located within the hazardous waste containers was not labeled. Satellite Area Operator indicated material was product. It was unclear during inspection that the material was product because there was no label on the containers.

**Recommendation:**

Do not store product within the defined SAA.

**Response:**

Removed the product at the time of the review.

Product labels were placed on the secondary containment to clearly distinguish wastes from product in the hood cabinet.

**Status:** Closed **Reviewer:** Ken Rice

# SEP – Second Triennial Review Observation Form

*PRE-DECISIONAL*

**Observation No.:** HW-014 **Category:** Storage

**Observation Title:** Innovative secondary containment solution

**Observation Type:** Positive Practice

**Date:** 6/24/2021

**Technical Area:** TA-16 **Location:** Bldg 306, Site 51761

**Operational Entity:** Triad

**Reference:** NA

**Requirement:**

**Notes:**

The WMC created a unique secondary containment area for their UOA. The area was temporary storage at a building demolition project. He assembled a secondary containment unit to accommodate the temporary staging of two 55-gal waste oil drums; constructing it using double-layered heavy-duty plastic attached to surrounding structural features, with the base surrounded by absorbent booms.

**Recommendation:**

NA

**Response:**

**Status:** Not Applicable for In Compliance & Positive **Reviewer:** Ann L Logue

# SEP – Second Triennial Review Observation Form

*PRE-DECISIONAL*

**Observation No.:** HW-015 **Category:** Procedures

**Observation Title:** Waste Reduction at SWSC

**Observation Type:** Positive Practice

**Date:** 6/23/2021

**Technical Area:** TA-03 **Location:** 2201 - SWSC Sanitary Wastewater System

**Operational Entity:** Triad

**Reference:** NA

**Requirement:**

**Notes:**

The SWSC, which treats between 100K and 400K gallons of wastewater per day has made significant progress in waste reduction in the past year or so. They are now a "zero-waste" facility. This reduction was accomplished by making some changes in their processes including composting and air-drying the sludge to a usable material. Remnant "grit" material is sent to the county for re-use as cover or fill. Volume generated went from multiple totes to no waste going for disposal. They also reuse/recycle all of the process water. Some of it is being used for landscape watering at the SWSC facility.

**Recommendation:**

**Response:**

**Status:** Not Applicable for In Compliance & Positive **Reviewer:** Ann L Logue

# SEP – Second Triennial Review Observation Form

*PRE-DECISIONAL*

**Observation No.:** HW-016 **Category:** Procedures

**Observation Title:** Waste Reduction at SERF

**Observation Type:** Positive Practice

**Date:** 6/23/2021

**Technical Area:** TA-03 **Location:** Site 5629, Bldg 1398

**Operational Entity:** Triad

**Reference:** NA

**Requirement:**

**Notes:**

The Sanitary Effluent Reclamation Facility (SERF) treats cooler/chiller waters to remove constituents such as silica and total suspended solids (TSS) from the water via precipitation and filter press operations. A filter-cake type material is the waste product that is classified as NMSW. Recent process innovations have significantly reduced the volume of the filter cake. Prior to the improvements, they produced two to three bins per week (roughly 12 per month). Process changes have reduced that to one bin every 8 to 10 days or roughly fewer than four per month.

They also continually recycle and reuse the clean process water after the reverse osmosis process.

**Recommendation:**

**Response:**

**Status:** Not Applicable for In Compliance & Positive **Reviewer:** Ann L Logue

# SEP – Second Triennial Review Observation Form

*PRE-DECISIONAL*

**Observation No.:** HW-017 **Category:** Procedures

**Observation Title:** "Green is Clean" waste reduction

**Observation Type:** Positive Practice

**Date:** 6/21/2021

**Technical Area:** TA-50 **Location:** Bldg 50 - Ops Center (and elsewhere)

**Operational Entity:** Triad

**Reference:** NA

**Requirement:**

**Notes:**

Facility wide, the waste management teams have put in place the "Clean is Green" program, which screens and segregates non-rad contaminated personal protective equipment and investigation-derived waste from rad-impacted contaminated waste. The materials are placed in separate bins for screening by RCCS, and those that are not impacted can go to a non-hazardous landfill.

**Recommendation:**

**Response:**

**Status:** Not Applicable for In Compliance & Positive **Reviewer:** Ann L Logue

# SEP – Second Triennial Review Observation Form

*PRE-DECISIONAL*

**Observation No.:** HW-018 **Category:** Storage

**Observation Title:** Cone-shaped drum lids

**Observation Type:** Positive Practice

**Date:** 6/22/2021

**Technical Area:** TA-55 **Location:** Site 480 Drum Pad

**Operational Entity:** Triad

**Reference:** NA

**Requirement:**

**Notes:**

Prior non-compliance reports identified drums in storage areas that had accumulated rainwater/snow on the lids, which could lead to rusting/drum failure. This drum pad containing radioactive waste/mixed waste now use cone-shaped lids on the drums that prevent ponding of snow or rain water.

**Recommendation:**

**Response:**

**Status:** Not Applicable for In Compliance & Positive **Reviewer:** Ann L Logue

# SEP – Second Triennial Review Observation Form

*PRE-DECISIONAL*

**Observation No.:** HW-019 **Category:** Labeling

**Observation Title:** Product co-located in storage area

**Observation Type:** Efficiency / Improvement Recommendation

**Date:** 6/25/2021

**Technical Area:** TA-09 **Location:** SAA 5898

**Operational Entity:** Triad

**Reference:** Best Management Practices

**Requirement:**

NA

**Notes:**

In review of the SAA, a bottle of glycol was co-located with containers of hazardous waste. Owner indicated the material was product and in use.

**Recommendation:**

Do not store product material with hazardous waste because it may appear to be an unlabeled container of waste.

**Response:**

Owner immediately removed glycol material to another location.

**Status:** Closed **Reviewer:** Ken Rice

# SEP – Second Triennial Review Observation Form

*PRE-DECISIONAL*

**Observation No.:** HW-020 **Category:** Labeling

**Observation Title:** Contents missing from labeling

**Observation Type:** I - Operational Deficiency (not following LANL procedure)

**Date:** 6/25/2021

**Technical Area:** TA-09 **Location:** SAA 1032 Room 132

**Operational Entity:** Triad

**Reference:** 40 CFR 262.15(a)(5)

**Requirement:**

A generator must mark or label its container with an indication of the hazards of the contents consistent with the DOT requirements at 49 CFR part 172 subpart E (labeling) or subpart F (placarding); or a chemical hazard label consistent with the National Fire Protection Association code 704).

**Notes:**

Three, poly carboys staged within a secondary containment tray had hazard labels, but no contents were indicated on the label.

(WSP 41471)

**Recommendation:**

Add container contents to label.

**Response:**

The following information was added to the containers: Ignitable - acetonitrile, water, methyl ethyl ketone, toluene, acetone, xylenes, dichloromethane, trace metals, trace organics

**Status:** Closed **Reviewer:** Ann L Logue

# SEP – Second Triennial Review Observation Form

*PRE-DECISIONAL*

**Observation No.:** HW-021 **Category:** Inspections

**Observation Title:** Inspection Sheets incorrectly marked for CAA

**Observation Type:** Efficiency / Improvement Recommendation

**Date:** 6/28/2021

**Technical Area:** TA-03 **Location:** CAA Site ID 5413

**Operational Entity:** Triad

**Reference:** Best Management Practice

**Requirement:**

Complete weekly inspections on forms as provided to WMCs.

**Notes:**

Weekly inspections indicated "NA" for the eyewash/safety shower which was within the area and should have been inspected.

**Recommendation:**

Inspect safety equipment as noted on inspection checklist.

**Response:**

The WMC will revise inspection process to note eyewash/safety shower condition as regular inspections conducted.

Inspections were conducted, initialed, dated, and uploaded to the share drive. Eyewash/shower is inspected and documented at station every quarter per safety requirements.

**Status:** Closed **Reviewer:** Ken Rice

# SEP – Second Triennial Review Observation Form

*PRE-DECISIONAL*

**Observation No.:** HW-022 **Category:** Labeling

**Observation Title:** Incomplete label on hazardous waste

**Observation Type:** II - Potential Environmental Regulatory Violation

**Date:** 6/25/2021

**Technical Area:** TA-51 **Location:** 11/102 SAA 50400

**Operational Entity:** Triad

**Reference:** 40 CFR 262.15(a)(5)

**Requirement:**

Container is marked with the words Hazardous Waste and an indication of the hazards of the contents.

**Notes:**

Black plastic bag containing a piece of equipment marked "Pending." No indication of contents or hazards on label.

**Recommendation:**

Although pending, the label should contain the contents of the bag with and an indication of the type of hazard even if it is pending.

**Response:**

Placed item in the bucket, and labeled toxic and contents as residual liquid pending analysis on 6/25/21.

**Status:** Closed **Reviewer:** Mark Vetter

# SEP – Second Triennial Review Observation Form

*PRE-DECISIONAL*

**Observation No.:** HW-023 **Category:** Labeling

**Observation Title:** Labeling EMPTY containers

**Observation Type:** Efficiency / Improvement Recommendation

**Date:** 6/28/2021

**Technical Area:** TA-03 **Location:** Site 6420

**Operational Entity:** Triad

**Reference:** NA

**Requirement:**

Best Management Practice

**Notes:**

Several empty product containers were staged within the SAA. Reviewers were told these are saved to be used for waste containment as needed.

**Recommendation:**

Recommended that they be labeled as "EMPTY" to avoid confusion.

**Response:**

Containers were labeled "EMPTY". The WMC met with generators, and future bottles will be marked "EMPTY" or discarded appropriately..

**Status:** Closed **Reviewer:** Ann L Logue

# SEP – Second Triennial Review Observation Form

*PRE-DECISIONAL*

**Observation No.:** HW-024 **Category:** Labeling

**Observation Title:** Waste container with no content labeled

**Observation Type:** Efficiency / Improvement Recommendation

**Date:** 6/28/2021

**Technical Area:** TA-60 **Location:** 2831

**Operational Entity:** Triad

**Reference:** Best Management Practice

**Requirement:**

NA

**Notes:**

A 30-gallon drum with no content on non-hazardous label.

**Recommendation:**

Label all waste containers.

**Response:**

Contents were verified and labeled (non-hazardous filters from parking lot filtration system) on 6/29.

**Status:** Closed **Reviewer:** Ken Rice

# SEP – Second Triennial Review Observation Form

*PRE-DECISIONAL*

**Observation No.:** HW-025 **Category:** Storage

**Observation Title:** Drum not within demarked SAA

**Observation Type:** II - Potential Environmental Regulatory Violation

**Date:** 6/28/2021

**Technical Area:** TA-60 **Location:** SAA 6083

**Operational Entity:** Triad

**Reference:** 40 CFR 262.15(a)

**Requirement:**

Waste is accumulated at or near the point of generation and "under control of the operator."

**Notes:**

Waste drum was located in the shop area, not at the designated SAA.

**Recommendation:**

Move drum into the defined SAA..

**Response:**

Drum was moved to the correct location on 6/28/21.

**Status:** Closed **Reviewer:** Ken Rice

# SEP – Second Triennial Review Observation Form

*PRE-DECISIONAL*

**Observation No.:** HW-026 **Category:** Labeling

**Observation Title:** Drum labeling

**Observation Type:** II - Potential Environmental Regulatory Violation

**Date:** 6/28/2021

**Technical Area:** TA-60 **Location:** 5814

**Operational Entity:** Triad

**Reference:** 20.9.8.10.C NMAC

**Requirement:**

A generator of special solid waste shall assure that all containers of special waste when deemed full and placed in storage are clearly labeled or marked indicating contents.

**Notes:**

A liquid drum with label indicating petroleum solids. Four drums with no hazards indicated, and one drum with petroleum soil indicating dermal and inhalation hazard with the label damaged.

**Recommendation:**

Correct labels to reflect actual container contents.

**Response:**

All labels corrected by the WMC.

**Status:** Closed **Reviewer:** Mark Vetter

# SEP – Second Triennial Review Observation Form

*PRE-DECISIONAL*

**Observation No.:** HW-027 **Category:** Procedures

**Observation Title:** Tracking Request For Analysis (RFA) on waste containers

**Observation Type:** Efficiency / Improvement Recommendation

**Date:** 6/23/2021

**Technical Area:** TA-03 **Location:** Site ID 6360 - SAA

**Operational Entity:** Triad

**Reference:** Best Management Practice

**Requirement:**

Connect sample to container being sampled

**Notes:**

When completing an RFA for a container with "pending analysis," be sure the analytical results can be tied to the container.

**Recommendation:**

Mark the container with the RFA. This marking was also recommended to Paul Gonzales at TA-9 SAA in Bldg 21.

**Response:**

The WMC wrote the RFA and event number on the lid of the container.

**Status:** Closed **Reviewer:** Ken Rice

# SEP – Second Triennial Review Observation Form

*PRE-DECISIONAL*

**Observation No.:** HW-028 **Category:** Training

**Observation Title:** Training Modules

**Observation Type:** Efficiency / Improvement Recommendation

**Date:** 6/28/2021

**Technical Area:** All **Location:** All

**Operational Entity:** Triad

**Reference:** Best Management Practice

**Requirement:**

Include training for personnel managing waste

**Notes:**

For RCRA Personnel Course 7488 (1/17) it is recommended to include training for operations, testing, maintenance and inspection of equipment (e.g., communications, alarms, fire, spill kits, etc. in accordance with 40 CFR 262.253 Subpart M) and security requirements associated with HW permit. Additionally, for Waste Generation Overview Course 23263 (1/17) it is recommended for updates to include generator improvement rules and specifically for labeling to include marking label with an indication of the waste hazards characteristic.

**Recommendation:**

Update training to reflect BMP improvements and P409 updates.

**Response:**

On page 81 and 82 of the RCRA Personnel Training Course #7488 manual it states: "It is imperative that emergency response equipment be operable." The testing, maintenance and inspection of equipment are conducted by other organization at Triad (MSS Division). In the next revision, we will include information regarding the testing and maintenance of emergency equipment by MSS. The procedure "Emergency Eyewash and Shower Equipment and Portable Fire Extinguishers" was made available. Revised Waste Generation Overview Course 23263 received from Triad on 9/1/2021 which included appropriate generator improvement rules and specifically the labeling requirements for hazardous characteristics.

**Status:** Closed

**Reviewer:** Ann Logue and Ken Rice

# SEP – Second Triennial Review Observation Form

*PRE-DECISIONAL*

**Observation No.:** HW-029 **Category:** Maintenance

**Observation Title:** Secondary Containment Maintenance

**Observation Type:** II - Potential Environmental Regulatory Violation

**Date:** 6/29/2021

**Technical Area:** 54 **Location:** 033, 036 and Pad 10

**Operational Entity:** N3B

**Reference:** Permit Section 3.7.1(3)

**Requirement:**

The Permittees shall maintain the base of secondary containment systems to ensure they are impervious in order to contain leaks, spills, and/or accumulated precipitation until the collected liquids are detected and removed.

**Notes:**

Secondary containment sealant coating was peeling, exposing concrete in 54-033 and 54-036. Pad 10 area had several corrected cracks and gaps, and repairs are ongoing. However, the Pad 10 area included one area which had previously repaired asphalt but included a crack and gap in the asphalt.

**Recommendation:**

Re-coat Secondary Containment with appropriate sealant following its manufacturer's requirements. Keep a record of manufacturer's requirement in accordance with Permit Section 3.7.1(4). Fill crack and gaps with appropriate sealant.

**Response:**

Cracks and floors sealed week of 8/23/2021 for permitted areas TA54-033 and Pad 10. Sealant manufacturer's requirements maintained in site's Facility Operating Record in accordance with Permit Section 2.12.2(15). For permitted area TA54-036, a temporary sign was placed in the area indicating "No Hazardous Waste Storage" to allow secondary containment unit repairs later.

**Status:** Closed **Reviewer:** Mark Vetter and Ken Rice

# SEP – Second Triennial Review Observation Form

*PRE-DECISIONAL*

**Observation No.:** HW-030 **Category:** Labeling

**Observation Title:** Labeling inaccurate or incomplete

**Observation Type:** II - Potential Environmental Regulatory Violation

**Date:** 6/29/2021

**Technical Area:** 54 **Location:** 32

**Operational Entity:** N3B

**Reference:** Permit Section 3.6.1

**Requirement:**

The Permittees shall ensure that all containers storing hazardous waste have a "Hazardous Waste" label (see 40 CFR § 262.34(a)(3)) that lists the generator's name, address, and EPA Identification number, the date the container was placed in storage at the permitted unit (see 40 CFR § 262.34(a)(2)), and all applicable EPA Hazardous Waste Number(s) (see 40 CFR § 268.50(a)(2)(i)).

**Notes:**

Drum with Hazardous Waste label lacked an accumulation start date.

**Recommendation:**

Include accumulation start date on label.

**Response:**

Label was corrected to include a start date of 6-22-2021

**Status:** Closed **Reviewer:** Ann Logue

# SEP – Second Triennial Review Observation Form

*PRE-DECISIONAL*

**Observation No.:** HW-031 **Category:** Labeling

**Observation Title:** Label inaccurate or incomplete

**Observation Type:** Efficiency / Improvement Recommendation

**Date:** 6/29/2021

**Technical Area:** 54 **Location:** Permitted Unit 58

**Operational Entity:** N3B

**Reference:** Best Management Practice

**Requirement:**

NA

**Notes:**

Three totes of non-hazardous waste and one drum identifying the material as "sump water" were located in permitted area. One contained no description of waste and another included a "Radioactive" label with the description of "sump water."

All containers in designated storage areas should include appropriate labels identifying contents.

**Recommendation:**

Identify all contents of the containers on the label using appropriate labels.

**Response:**

Labels added to containers on August 5, 2021.

**Status:** Closed **Reviewer:** Ken Rice

# SEP – Second Triennial Review Observation Form

*PRE-DECISIONAL*

**Observation No.:** HW-032 **Category:** Labeling

**Observation Title:** Drum label location

**Observation Type:** Efficiency / Improvement Recommendation

**Date:** 6/29/2021

**Technical Area:** 54 **Location:** Permitted Unit 33

**Operational Entity:** N3B

**Reference:** Permit Section 3.6.1

**Requirement:**

Labels must be able to be seen from aisle during inspections.

**Notes:**

A single drum was located on spill pallet with its label facing inward. If other drums were to be placed onto the pallet, the drum label would no longer be visible.

**Recommendation:**

Rotate drum to have label visible to the outside.

**Response:**

Drum rotated to have label visible from the aisle side of the pallet.

**Status:** Closed **Reviewer:** Mark Vetter

# SEP – Second Triennial Review Observation Form

*PRE-DECISIONAL*

**Observation No.:** HW-033 **Category:** Signage

**Observation Title:** Warning Signs

**Observation Type:** II - Potential Environmental Regulatory Violation

**Date:** 6/29/2021

**Technical Area:** 54 **Location:** Pad 10, 033 and 283

**Operational Entity:** N3B

**Reference:** Permit Section 2.5.1

**Requirement:**

The Permittees shall post bilingual warning signs (in English and Spanish) at all gates and perimeter fences, where present, around the permitted units (see 40 CFR § 264.14(c)).

**Notes:**

Signs were faded at all three location and were missing at a few entrances at 54-283.

**Recommendation:**

Replace warning signs.

**Response:**

New signs were placed on gates and perimeter fences during the week of 8/23/2021.

**Status:** Closed **Reviewer:** Mark Vetter

# SEP – Second Triennial Review Observation Form

*PRE-DECISIONAL*

**Observation No.:** HW-034 **Category:** Storage

**Observation Title:** Stormwater run-on into permitted area

**Observation Type:** I - Operational Deficiency (not following LANL procedure)

**Date:** 6/29/2021

**Technical Area:** TA-54 **Location:** Permitted Dome 153

**Operational Entity:** N3B

**Reference:** Permit Section 3.12.2.1

**Requirement:**

The Permittees shall repair the 6-inch-high, 8-inch-wide curb at the perimeter of Domes 153 and 283 to prevent run-on/run-off to and from the permitted unit.

**Notes:**

During a rain event, it was noted that stormwater intrusion was occurring from underneath the perimeter curb on the southeast corner of Dome 153.

**Recommendation:**

Repair curb to prevent stormwater run-on into permitted area.

**Response:**

Curbing repaired week of 8/23/2021.

**Status:** Closed **Reviewer:** Ken Rice

# SEP – Second Triennial Review Observation Form

*PRE-DECISIONAL*

**Observation No.:** HW-035 **Category:** Storage

**Observation Title:** New Universal Area at SMO

**Observation Type:** II - Potential Environmental Regulatory Violation

**Date:** 6/29/2021

**Technical Area:** TA-3 **Location:** Outside of Bldg 271 at the Sampling Management Office (SMO)

**Operational Entity:** N3B

**Reference:** 40 CFR 273.13(a)

**Requirement:**

A handler of universal waste must manage universal waste batteries in a way that prevents releases of any universal waste or component of a universal waste to the environment.

**Notes:**

Lead acid batteries were located in the area, but were not containerized or labeled in accordance with universal waste management requirements.

**Recommendation:**

Establish a UWA, containerize batteries, and provide label with an accumulation start date.

**Response:**

The area outside the Sample Management Office (SMO) was cleaned up later in the day. The lead acid batteries were placed in a container with contents, batteries for recycle, UN2794 (lead-acid batteries). The new UWA was moved inside to where batteries are recharged/serviced.

**Status:** Closed **Reviewer:** Amy Swiecichowski

# SEP – Second Triennial Review Observation Form

*PRE-DECISIONAL*

**Observation No.:** HW-036 **Category:** Inspections

**Observation Title:** Inspection Checklist Inaccuracy

**Observation Type:** II - Potential Environmental Regulatory Violation

**Date:** 6/30/2021

**Technical Area:** TA-54 **Location:** Dome 229

**Operational Entity:** N3B

**Reference:** Attachment E Section E.1.1

**Requirement:**

The Permittees shall conduct and record inspections in Parts I and II of the IRF for each working day or week that waste is opened, moved, received, stored, treated, removed, or remains open, as appropriate.

**Notes:**

The inspection form for Area G Dome 229 dated May 4, 2020 indicated that waste was stored in Dome 229 on May 5. However, all subsequent checklist items were marked NA and not inspected.

**Recommendation:**

Implement an inspection form review process prior to signing off on inspection. Utilize personnel with RCRA training and permit familiarity to complete inspections.

**Response:**

Received revised procedure N3B-DOP-TRU-1219 Rev 1, RCRA Inspections and Notifications on 8/26/2021. Revised procedure incorporates requirements for reviewing the completeness of the inspection by the Shift Operations Manager or Environmental Professional. The procedure also identifies requirement for qualified and trained nuclear operator, environmental professional, and waste management professional to perform this procedure:

**Status:** Closed **Reviewer:** Mark Vetter

# SEP – Second Triennial Review Observation Form

*PRE-DECISIONAL*

**Observation No.:** HW-037 **Category:** Inspections

**Observation Title:** Confusing/conflicting Inspection Report Notations

**Observation Type:** Efficiency / Improvement Recommendation

**Date:** 7/1/2021

**Technical Area:** TA 54, Area L Above Ground CSU **Location:**

**Operational Entity:** N3B

**Reference:** Permit Attachment E, Sect E.2.2

**Requirement:**

Container storage units (CSUs) are required to be inspected on a weekly basis when waste is stored.

**Notes:**

Review of weekly inspection reports for May 3 and May 10, 2021, had presented previously identified action items on line 8 that were mislabeled as Non- Regulatory Concern (NRCs). The items labeled NRC should have been labeled Action Required (AR). Also, for the weeks of May 17 and May 24, 2021, these same previously identified issues were not identified nor were they closed out. A similar observation was made for Item 11 in the spreadsheet for the weeks of May 17 and May 24. This issue was noted for another CSU.

**Recommendation:**

Recurring item should be noted as AR on the inspection form.

**Response:**

Received revised procedure N3B-DOP-TRU-1219 Rev 1, *RCRA Inspections and Notifications* on 8/26/2021. Revised procedure excludes the use of NRC on the inspection forms and outlines what should be done when actions are identified and what should be documented for closing out the actions.

**Status:** Closed **Reviewer:** Ann Logue

# SEP – Second Triennial Review Observation Form

*PRE-DECISIONAL*

**Observation No.:** HW-038 **Category:** Inspections

**Observation Title:** Action Items from Inspections

**Observation Type:** II - Potential Environmental Regulatory Violation

**Date:** 6/30/2021

**Technical Area:** TA-54 **Location:** Area G

**Operational Entity:** N3B

**Reference:** Attachment E Sections 1.2

**Requirement:**

E.1.2 Actions Resulting from Inspections

If the Permittees discover any defects, deterioration, operator errors, discharges, or potential hazards during an inspection, the Permittees shall complete appropriate corrective measures (e.g., transfer of waste from a defective container to an appropriate container in good condition, repair or replacement of nonfunctioning equipment and/or systems, or removal of any accumulated liquids) promptly so that the problem does not lead to an environmental or human health hazard. The Permittees shall note any action taken in response to an inspection on the IRF or IRF documentation.

If a hazardous condition is imminent or has already occurred, the Permittees shall assess the condition immediately and follow up with appropriate remedial action. If this assessment indicates that human health or the environment may be or may have been adversely affected, the Permittees may implement Permit Attachment D, (Contingency Plan). In any case, the Permittees shall document the remedial action that is required and is taken.

**Notes:**

Several Items identified during inspections as deficiencies are outstanding, some from 2018. These include concrete cracks, asphalt cracks, uninspected windsocks, floor paint chipping, fabric ripped, door signs faded. These are identified as NRCs and not ARs.

**Recommendation:**

Address action items as soon as possible and close out action items. For example, if cracks are sealed, close the action item. If cracks are observed during a subsequent inspection, create a new action item.

Items identified for action that are deficiencies identified during weekly inspections should be labeled as ARs. NRC is not a permit term in Attachment E.

Conduct inspections using personnel with RCRA training and who are familiar with RCRA and the Permit requirements.

**Response:**

Received revised procedure N3B-DOP-TRU-1219 Rev 1, *RCRA Inspections and Notifications* on 8/26/2021. Revised procedure excludes the use of NRC on the inspection forms and outlines what should be done when actions are identified and what should be documented for closing out the actions. The procedure also identifies requirement for qualified and trained nuclear operator, environmental professional, and waste management professional to perform this procedure.

**Status:** Closed **Reviewer:** Mark Vetter

# SEP – Second Triennial Review Observation Form

*PRE-DECISIONAL*

**Observation No.:** HW-039 **Category:** Release/Spill

**Observation Title:** Spill Kit

**Observation Type:** II - Potential Environmental Regulatory Violation

**Date:** 6/30/2021

**Technical Area:** TA-03 **Location:** SAA 6611

**Operational Entity:** N3B

**Reference:** 40CFR 262.252(c)

**Requirement:**

Locate equipment necessary to prepare for and respond to emergencies: spill control equipment

**Notes:**

No spill kit available. Waste included acids.

**Recommendation:**

Spill kits should be available and appropriate for waste being accumulated.

**Response:**

Acquired spill kit with appropriate supplies week of 8/2/2021.

**Status:** Closed **Reviewer:** Amy Swiecichowski

# SEP – Second Triennial Review Observation Form

*PRE-DECISIONAL*

**Observation No.:** HW-040 **Category:** Inspections

**Observation Title:** Container Storage Unit Inspections

**Observation Type:** II - Potential Environmental Regulatory Violation

**Date:** 6/30/2021

**Technical Area:** TA-54 **Location:** Area L

**Operational Entity:** N3B

**Reference:** Attachment E Section E.2.2 Weekly

**Requirement:**

The Permittees shall conduct weekly inspections of CSUs every week that waste remains in storage. The Permittees shall inspect and record the following items, as applicable:

1. General IRF information (Items 1-7)
2. Communications equipment
3. Warning signs
4. Security
5. Work surfaces/floors
6. Spill/fire equipment
7. Eyewashes/safety showers
8. Windsock
9. Secondary containment structures
10. Run on and runoff control
11. Covers and lids of containers
12. Labels
13. Accumulation start date
14. Compatibility

**Notes:**

Area L only had one inspection sheet for the entire area. Individual CSUs were not identified on the inspection form.

**Recommendation:**

Complete a separate inspection form for each CSU in Area L. Utilize personnel familiar with permit and RCRA regulations to complete inspection.

**Response:**

Received revised procedure N3B-DOP-TRU-1219 Rev 1, *RCRA Inspections and Notifications* on 8/26/2021. Revised procedure included requirement for a minimum of five separate inspection record forms for the 10 permitted units within Area L. Trained and qualified personnel will perform the inspections.

**Status:** Closed **Reviewer:** Mark Vetter

# SEP – Second Triennial Review Observation Form

*PRE-DECISIONAL*

**Observation No.:** HW-041 **Category:** Inspections

**Observation Title:** Confusing notations on inspections reports

**Observation Type:** Efficiency / Improvement Recommendation

**Date:** 7/1/2021

**Technical Area:** TA 54, **Location:** 1027, 1028, 1030, 1041, Pads 5, 7, and 8 CSU

**Operational Entity:** N3B

**Reference:** Permit Att E, Sec E.2.2 Weekly Inspections

**Requirement:** The Permittees shall inspect and record the inspections to identify problems in time to correct them before they harm human health or the environment.

**Notes:**

Att 1 (Form) on May 2021 inspection report has no notation (marked as "NA") regarding signage; however, notations written under Open NRCs indicates signs (Item 9) are not legible, with closed date as 3/11/21. However, the same notation has hand written notes indicating the item is still open, and signs need replacing. As written, it remains unclear whether the issue was resolved.

**Recommendation:**

Conduct QC reviews of inspection reports.

**Response:**

Received revised procedure N3B-DOP-TRU-1219 Rev 1, *RCRA Inspections and Notifications* on 8/26/2021. Revised procedure excludes the use of NRC on the inspection forms and outlines what should be done when actions are identified and what should be documented for closing out the actions. The procedure also specifies the requirements for reviewing completeness of the inspection form by the Shift Operations Manager and Environmental Professional.

**Status:** Closed **Reviewer:** Ann L Logue

# SEP – Second Triennial Review Observation Form

*PRE-DECISIONAL*

**Observation No.:** HW-042 **Category:** Inspections

**Observation Title:** Delay in Obtaining Inspection Records for Review

**Observation Type:** Efficiency / Improvement Recommendation

**Date:** 7/1/2021

**Technical Area:** TA-54 **Location:** Areas L and G

**Operational Entity:** N3B

**Reference:** Section E.1.1

**Requirement:**

E.1.1 Inspection Records

The Permittees shall insure that permitted unit personnel conduct inspections and record the information on IRFs or equivalent forms. The Permittees shall retain inspection records until closure of the associated permitted unit. The Permittees shall maintain an electronic version of the records through the closure or post-closure periods dependent upon the type of facility. The Permittees shall make inspection records available for review in the event that the Department or the U.S. Environmental Protection Agency inspects the facility for compliance with inspection requirements.

**Notes:**

Inspection records were requested for review during the preliminary site visit the week of May 24 and several times after the preliminary site visit via email and verbally again on June 29. However, it took 5.5 hours to get documents for review on June 29 and only a partial package of forms were inspected.

**Recommendation:**

Have forms readily available in a binder for subsequent agency and other third-party reviews. Consider keeping a binder of original inspection sheets that can be readily produced upon request.

**Response:**

Received revised procedure N3B-DOP-TRU-1219 Rev 1, *RCRA Inspections and Notifications* on 8/26/2021. Revised procedure includes note: Hard copies of Inspection Record Forms will be maintained at building 247 until a full quarter is completed and be made available for inspections upon request. IRFs will then be stored electronically.

**Status:** Closed **Reviewer:** Mark Vetter

# SEP – Second Triennial Review Observation Form

*PRE-DECISIONAL*

**Observation No.:** HW-043 **Category:** Inspections

**Observation Title:** Permit IRF Form Data Recording

**Observation Type:** I - Operational Deficiency (not following LANL procedure)

**Date:** 6/30/2021

**Technical Area:** TA-54 **Location:** Areas L and G

**Operational Entity:** N3B

**Reference:** Attachment E Section E.1.1

**Requirement:**

The Permittees shall follow the inspection schedules outlining the items to be addressed on the Permittees' Hazardous Waste Facility Inspection Record Form (IRF) and inspection frequencies for the unit types provided in this Attachment's Sections E.2 through E.8, and in TA-specific Attachment E sections. The IRF and instructions for its completion are provided at the end of this Attachment Section; the form may be supplemented, changed, or otherwise replaced through a permit modification pursuant to 40 CFR § 270.42(a). The IRF lists the items to be inspected.

**Notes:**

The inspection forms reviewed for several of the CSUs utilized terms not referenced in Attachment E including using NRC for action items. Inspection records identified most finds as NRC. Observations identified during this review were all of a regulatory concern because the inspection forms are specified in the hazardous waste permit.

**Recommendation:**

Discontinue use of NRC and complete inspections according to the requirements of Attachment E.

**Response:**

Received revised procedure N3B-DOP-TRU-1219 Rev 1, *RCRA Inspections and Notifications* on 8/26/2021. It included an updated IRF that met the requirements of Attachment E of the Hazardous Waste Facility Permit.

**Status:** Closed **Reviewer:** Mark Vetter

## E.3 HWFP and Waste Checklist References

LANL (2018). *FY2018 Report of Releases and Instances of Noncompliance with the Los Alamos National Laboratory Hazardous Waste Facility Permit.* EPC-DO-18-398. November 29, 2018. Los Alamos, NM.

LANL (2019). *FY2019 Report of Releases and Instances of Noncompliance with the Los Alamos National Laboratory Hazardous Waste Facility Permit.* EPC-DO-19-426. November 25, 2019. Los Alamos, NM.

LANL (2020a). *2019 Hazardous Waste Biennial Report for Los Alamos National Laboratory EPA ID# NM 0890010515.* EPC-DO-20-050. February 26, 2020. Los Alamos, NM.

LANL (2020b). *FY2020 Report of Releases and Instances of Noncompliance with the Los Alamos National Laboratory Hazardous Waste Facility Permit.* EPC-DO-20-350. November 30, 2020. Los Alamos, NM.

LANL (2020c). Notice of Public Training for Electronic Public Reading Room. LA-UR-20-28751. November 2, 2020. Los Alamos, NM.

LANL (2020d). *Los Alamos National Laboratory Hazardous Waste Facility Permit Community Relations Plan*. November 01, 2020. Los Alamos, NM.

LANL (2020e). *2020 Los Alamos National Laboratory Hazardous Waste Minimization Report.* EPC-DO-20-329. NA-LA/Triad. November 30, 2020. Los Alamos, NM.

LANL (2020f). *Internal Distribution of the LANL Hazardous Waste Facility Contingency Plan and Other Required Preparedness and Prevention Communication.* EPC-DO-20-359. November 06, 2020. Los Alamos, NM.

LANL (2020g). *Distribution of the LANL Hazardous Waste Facility Contingency Plan and Other Required Preparedness and Prevention Communication to Los Alamos County*, EPC-DO-20-360. November 06, 2020. Los Alamos, NM.

LANL (2020h). *Distribution of the LANL Hazardous Waste Facility Contingency Plan and Other Required Preparedness and Prevention Communication to the State of New Mexico.* EPC-DO-20-366. November 06, 2020. Los Alamos, NM.

LANL (2020i). *Proof of Contingency Plan Distribution.* November 06, 2020. Los Alamos, NM.

LANL (2021a). *Technical Area 63 (TA-63) Transuranic Waste Facility Soil Vapor Monitoring System Report, Quarter 14 March 2021, LANL. EPA ID# 0890010515.* EPC-DO-21-135, May 03, 2021. Los Alamos, NM.

LANL (2021b). *Five-day Written Report for Oral Notification on March 9, 2021.* EPC-DO-086. March 12, 2021. Los Alamos, NM.

LANL (2021c). *Electronic Public Reading Room.* https://eprr.lanl.gov/

LANL (2021d). *Waste Characterization and Tracking System*. Los Alamos, NM.

New Mexico Environmental Department (NMED) (2020). *Hazardous Waste Permit No. NM0890010515*. November 2, 2020. Santa Fe, NM.

# Appendix F: Triennial Review Team

Parsons, under the Enterprise Construction Management Services (ECMS) contract, assembled an experienced team of subject matter experts (SMEs) in environmental permitting and compliance to conduct the Review. The team (identified in Table 1) reviewed the operations and activities at LANL with respect to waste streams, permit compliance, chemical and hazardous material use and handling, and discharges to the environment. With the identified areas for the second review, two main sub teams were formed – the water management team to focus on NPDES permits and spills and the waste management team to focus on solid and hazardous wastes.

Table 1: Triennial Review Team

| Name | Years' Experience | Sub Team | Role |
|---|---|---|---|
| Jason Anderson, PE | 15 | Waste Management | Technical Advisor |
| Tracy Cangelosi | 19 | Water Management | NPDES Stormwater Individual Permit Support |
| Adam Czaplinski | 28 | Water Management | NPDES Stormwater Individual Permit Lead |
| David Leonard, AICP | 21 | Water Management | NPDES Industrial and Sanitary Point Source Outfall Permit Support |
| Ann Logue | 34 | Waste Management | Hazardous Waste Support |
| Erik Powers | 16 | Water Management | NPDES Multi-Sector General Permit Lead/Spills |
| Ken Rice | 33 | Waste Management | Hazardous Waste Co-Lead |
| Florin Savin | 29 | Water Management | NPDES Industrial and Sanitary Point Source Outfall Permit Lead |
| Susan Stewart, CCM | 21 | Water Management | NPDES Stormwater Individual Permit Support |
| Amy Swiecichowski, PE | 32 | Waste Management | Triennial Lead/Solid Waste |
| Mark Vetter, PG | 33 | Waste Management | Hazardous Waste Co-Lead |
| Georgia Vondra, PG | 32 | Water Management | NPDES Stormwater Individual Permit Support |

## Water Management Team

The water management team focused on operations, procedures, monitoring, and reporting related to regulated discharges and spills.

## Waste Management Team

The waste management team focused on operations, procedures, monitoring, and reporting related to the characterization, generation, compatibility, handling, storage, and treatment of solid and hazardous waste including New Mexico special wastes.