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May 23, 2024

Robert A. Gallegos, Manager
Department of Energy-NNSA
Los Alamos Field Office
3747 West Jemez Rd, A316
Los Alamos, NM 87544

Steven L. Story, Acting Division Leader
Environmental Protection & Compliance
Triad National Security, L.L.C.
P.O. Box 1663, MS M969
Los Alamos, NM 87545

RE: REVIEW
TECHNICAL AREA 63 TRANSURANIC WASTE FACILITY SOIL VAPOR MONITORING SYSTEM
REPORT, CALENDAR YEAR 2024, QUARTER 1, JANUARY
LOS ALAMOS NATIONAL LABORATORY
EPA ID#NM0890010515
HWB-LANL-24-017

Dear Robert Gallegos and Steven Story:

The New Mexico Environment Department (NMED) has received the United States Department of Energy (DOE) National Nuclear Security Administration, Los Alamos Field Office (NA-LA) and the Triad National Security, LLC (Triad) (collectively the Permittees) *Technical Area 63 Transuranic Waste Facility Soil Vapor Monitoring System Report, Calendar Year 2024, Quarter 1, January* (Report) dated and received March 28, 2024, and referenced by EPC-DO-24-076/LA-UR-24-22378.

Soil vapor monitoring was conducted at Technical Area 63 Transuranic Waste Facility on January 31, 2024, for the first quarter of 2024. The Report indicates that vapor concentrations for volatile organic compounds (VOCs) from the five (5) vapor monitoring wells (VMWs), 1 through 5, did not exceed soil-gas screening levels (SGSLs) for the identified constituents in Tables 3.14.3.1, 3.14.3.2, and 3.14.3.3 of Part 3 of the Los Alamos National Laboratory's RCRA Permit.

As stated in Section IV Analytical Results, trichloroethene (TCE) continues to exhibit the highest concentrations of all VOCs detected. VMW-4 and VMW-5, the two closest wells to Material Disposal Area (MDA) C, consistently have the highest concentrations of TCE, with VMW-4 at 60 feet below ground surface (bgs) with reported results of 6,400 µg/m³ (6.9% of the SGSL) this quarter.

Similar to previous sampling in Quarter 4 of CY2023, chloroform was detected for the second sequential quarter in VMW-2, with a reported result of 4.1 µg/m³ (less than 0.1 SGSL) at 5 ft bgs. Chloroform is routinely detected in VMW-4 and VMW-5 at both depths, with concentrations of ranging from 25 to 160 µg/m³. NMED notes that the maximum detection for chloroform is equal to or less than 0.5% of the SGSL for the first quarter of sampling for 2024.

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Similar to previous sampling in CY2019, bromodichloromethane was detected in VMW-4 with a reported result of 4.5 $\mu\text{g}/\text{m}^3$ at a depth of 25 ft bgs and 5.9 $\mu\text{g}/\text{m}^3$ at 50 ft bgs. However, it is not included as a constituent in Tables 3.14.3.1, 3.14.3.2, and 3.14.3.3. NMED notes that for Bromodichloromethane, the 2022 NMED Soil Screening Guidance Vapor Intrusion Screening Levels (VISLs) industrial soil gas (sg) cancer risk screening level is currently set to 124 $\mu\text{g}/\text{m}^3$. Bromodichloromethane should continue to be monitored at VMW-4.

NMED has reviewed the Report and has no further comments at this time. If you have any questions regarding this letter, please contact Siona Briley at (505) 690-5160.

Sincerely,

JohnDavid Nance Digitally signed by JohnDavid Nance
Date: 2024.05.23 17:10:59 -06'00'

JohnDavid Nance
Chief
Hazardous Waste Bureau

cc: N. Dhawan, NMED HWB
R. Maestas, NMED-HWB
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File: 2024 LANL, TA 63, Review Letter TA-63 TWF Soil Vapor Monitoring System Report, QTR 1, January 2024
LANL-24-017

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To: robert.gallegos@nnsa.doe.gov; [Story, Steven L](#)
Cc: [Nance, JD, ENV](#); [Dhawan, Neelam, ENV](#); [Maestas, Ricardo, ENV](#); [Briley, Siona, ENV](#); [Martinez, Caitlin, ENV](#); [Petersen, Michael, ENV](#); [Yanicak, Steve, ENV](#); [Laurie King](#); [Duran, Arturo Q.](#); karen.armijo@nnsa.doe.gov; [Moseley, Jessica Lee](#); [Hill, Jason Scott](#); [Christian T. Maupin](#); epc-correspondence@lanl.gov; ["lasomailbox@nnsa.doe.gov"](mailto:lasomailbox@nnsa.doe.gov); [locatesteam](#); rcra-prr@lanl.gov
Subject: [EXTERNAL] Review letter to Robert Gallegos and Steven Story
Date: Tuesday, May 28, 2024 12:15:03 PM
Attachments: [LANL-24-017 Review TA 63 TWF Soil Vapor Monitoring Report for CY2024 Quarter 1 05.23.2024.pdf](#)

Good afternoon,
Please see attachment.

Cynthia Martinez
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505-476-6000

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