National Aeronautics and
Space Administration

Lyndon B. Johnson Space Center
White Sands Test Facility
P.O. Box 20
Las Cruces, NM 88004-0020

January 14, 2025

Reply to Attn of: RE-25-006

Mr. JohnDavid Nance, Bureau Chief
New Mexico Environment Department
Hazardous Waste Bureau
2905 Rodeo Park Drive East, Building 1
Santa Fe, NM 87505

Subject: NASA White Sands Test Facility (WSTF) Quarterly Environmental Activity Report for Fourth Quarter 2024

Enclosed is the NASA White Sands Test Facility (WSTF) Quarterly Environmental Activity Report for Fourth Quarter 2024. This reporting format includes an Executive Summary that provides important events/observations as Enclosure 1, a paper copy of the report as Enclosure 2, and a CD-ROM with the report in PDF as Enclosure 3.

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.

If you have any questions or comments concerning this submittal, please contact Amanda Skarsgard of my staff at 575-524-5460.

Timothy Davis

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Date: 2025.01.14 11:38:12 -07'00'

Timothy J. Davis
Chief, Environmental Office

3 Enclosures

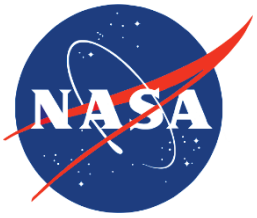
cc:
Mr. Gabriel Acevedo
Hazardous Waste Bureau
New Mexico Environment Department
2905 Rodeo Park Drive East, Building 1
Santa Fe, NM 87505

Executive Summary

The following summarizes important information associated with NASA White Sands Test Facility (WSTF) environmental program activities in the fourth quarter (October – December) of 2024:

- NASA completed a shipment of non-hazardous waste in October 2024 and shipments of medical, hazardous, and universal waste in November 2024. There were no waste shipments in December 2024.
- NASA sampled 41 of 41 groundwater monitoring wells scheduled for October 2024, 58 of 60 wells scheduled for November 2024, and 45 of 45 wells scheduled for December 2024. NASA scheduled 45 groundwater monitoring wells for sampling in January 2025.
- NASA operated the MPITS and PFTS for 20 and 24 days in October 2024, 17 and 25 days in November 2024, and 16 and 30 days in December 2024, respectively.
- NASA responded to previous NMED correspondence related to WSTF risk-based concentrations in soil vapor by preparing and submitting a follow-on soil vapor monitoring and assessment plan for the 200 and 600 Areas.
- NASA continued supplemental groundwater and soil vapor monitoring in the 400 Area in accordance the NMED-approved plan and provided the monitoring report for the second quarterly monitoring event.
- NASA continued extraction of perched groundwater at monitoring well 600-G-138.
- NASA received NMED's disapproval of the investigation report for the 600 Area wastewater lagoons and began addressing NMED comments.
- NASA completed and submitted the Remedy Completion Report documenting work at SWMU 16.
- NASA addressed NMED's comments in the determination of administrative incompleteness for a petition for corrective action status review of SWMUs 21-27, 30, and 31. NASA submitted a revised petition, notified entities on the facility mailing list, and completed the required public notice process.
- NASA provided a revised work plan for the second phase of investigation at SWMU 49.
- NASA continued work to address NMED comments in several approvals with modification or disapprovals related to ongoing well projects.
- NASA reported a release of isopropyl alcohol and is preparing a work plan to further investigate the nature and extent of the impacts of the release.
- NASA submitted 29 documents to the NMED Hazardous Waste Bureau in the fourth quarter of 2024.
- There were no reportable non-compliance issues in October, November, or December 2024.

National Aeronautics and Space Administration



Quarterly Environmental Activity Report

Fourth Quarter 2024

NM8800019434

Report Deadline: January 15, 2025

NASA Johnson Space Center White Sands Test Facility
Quarterly Environmental Activity Report

Fourth Quarter 2024

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.

Timothy Davis Digitally signed by Timothy Davis Date: 2025.01.14 11:37:52 -07'00'

See Electronic Signature

Timothy J. Davis
Chief, Environmental Office

Date

National Aeronautics and Space Administration

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Executive Summary

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1.0 Waste Management Activities

1.1 NASA completed the following waste shipments in the fourth quarter of 2024.

Date	Shipped To	Type of Waste	No. of Containers	Amount of Waste
10/24/24	South Central Solid Waste Authority, Las Cruces, NM	Non-Hazardous	14	14,606 kg
11/4/24	Stericycle, El Paso, TX	Medical Waste	1	6.44 ft^3
11/21/24	US Ecology, Beatty, NV	Hazardous (LDR)	10	1,142 kg
11/21/24	Veolia, Henderson, CO	Hazardous (Lab Pack)	12	277 kg
11/21/24	Veolia, Henderson, CO	Hazardous (Waste Fuel)	1	889 kg
11/21/24	Veolia, Phoenix, AZ	Universal	22	243 kg

2.0 Environmental Monitoring

2.1 NASA performed sampling at 41 of 41 groundwater monitoring wells and zones scheduled for sampling in October 2024, 58 of 60 wells and zones in November 2024, and 45 of 45 wells and zones in December 2024 in accordance with the approved Groundwater Monitoring Plan (GMP). In November 2024, wells 300-001-GSV and 300-002-GSV were rescheduled to December 2024 so groundwater sampling could be performed in conjunction with scheduled soil vapor sampling. Sampling at these wells was performed in December 2024 as planned. Previous deviations from the planned sampling schedule are described below and have been reported to NMED in previous quarterly reports:

- NASA could not sample well PL-7-480 in August 2022, because the Westbay zone did not produce water. The water level at this location has dropped below this sample port and it cannot be sampled. NASA removed the zone from the sampling schedule in the 2024 GMP update, which was submitted for NMED review on April 29, 2024.
- Wells BLM-1-435 (scheduled for sampling in April 2021) and PL-3-453 (scheduled for sampling in December 2020) have not been sampled because the water levels are not sufficient for sampling. NASA expects to abandon and replace wells BLM-1-435 and PL-3-453 in accordance with NMED-approved work plans and as indicated in the December 13, 2024 *NASA White Sands Test Facility (WSTF) Corrective Action Projects; Proposal to Restructure Priorities and Schedule*.

2.2 NASA performed other regulatory groundwater sampling requirements as scheduled and as allowed by operational status. NASA did not sample well MPE-8 in the fourth quarter because it was not operational due to equipment failure. NASA is evaluating the well's equipment and operational capability and will provide updates in future reports.

2.3 NASA developed the January 2025 groundwater sampling schedule and plans to sample 45 groundwater monitoring wells or zones based on GMP requirements.

3.0 Corrective Actions/Investigations

3.1 Mid-plume Interception and Treatment System Operations

Month	Days Operated	Average Flow Rate (gpm)	Volume Extracted and Treated (acre-feet)	Volume of Groundwater Discharged to Infiltration Basin (acre-feet)	Volume of IDW Treated and Discharged to the Infiltration Basin (gallons)
Oct-24	20 of 31	9.3	0.52	0.60	271
Nov-24	17 of 30	8.6	0.48	0.55	874
Dec-24	16 of 31	8.6	0.47	0.53	244

Shutdown Date	Restart Date	Shutdown Status	Discussion
10/1/24	10/2/24	Planned	The system was shut down to perform maintenance on the air stripper.
10/3/24	10/7/24	Planned	The system was shut down to allow aquifer levels to recover over the weekend.
10/8/24	10/9/24	Planned	The system was shut down to allow aquifer levels to recover over the weekend.
10/11/24	10/15/24	Planned	The system was shut down to allow aquifer levels to recover over the weekend.
10/17/24	10/21/24	Planned	The system was shut down to allow aquifer levels to recover over the weekend.
10/22/24	10/22/24	Unplanned	The system shut down automatically because of a communication loss.
10/25/24	10/28/24	Planned	The system was shut down to allow aquifer levels to recover over the weekend.
10/30/24	10/30/24	Unplanned	The system shut down automatically because of a communication loss.
10/31/24	10/31/24	Planned	The system was shut down to allow aquifer levels to recover over the weekend.
11/1/24	11/4/24	Planned	The system was shut down to allow aquifer levels to recover over the weekend.
11/8/24	11/12/24	Planned	The system was shut down to allow aquifer levels to recover over the weekend.
11/14/24	11/18/24	Planned	The system was shut down to allow aquifer levels to recover over the weekend.
11/22/24	11/25/24	Planned	The system was shut down to allow aquifer levels to recover over the weekend.

Shutdown Date	Restart Date	Shutdown Status	Discussion
11/27/24	11/30/24	Planned	The system was shut down to allow aquifer levels to recover over the weekend.
12/1/24	12/2/24	Planned	The system was shut down to allow aquifer levels to recover over the weekend.
12/6/24	12/9/24	Planned	The system was shut down to allow aquifer levels to recover over the weekend.
12/12/24	12/16/24	Planned	The system was shut down to allow aquifer levels to recover over the weekend.
12/20/24	12/30/24	Planned	The system was shut down to allow aquifer levels to recover over the long holiday break.

3.2 Plume Front Treatment System Operations

Month	Days Operated	Average Flow Rate (gpm)	Volume Extracted and Treated (acre-feet)	Volume Injected (acre-feet)	Volume Discharged to Grade (acre-feet)	Volume Discharged to Modu-Tank (acre-feet)
Oct-24	24 of 31	801	82.6	83.0	0.65	0.0
Nov-24	25 of 30	805	83.0	83.3	0.67	0.001
Dec-24	30 of 31	772	98.8	99.0	0.28	0.002

Shutdown Date	Restart Date	Shutdown Status	Discussion
10/24/24	11/7/24	Planned	The system was shut down to perform scheduled maintenance of the UV reactor.
11/13/24	11/13/24	Planned	The system was shut down to perform scheduled maintenance of the air compressor.
12/28/24	12/30/24	Unplanned	The system shut down automatically because of a communication loss.

3.3 200 Area Investigation

- NMED approved the *Response to Second Disapproval 200 and 600 Area Vapor Intrusion Assessment Report* (April 27, 2023) with modifications on April 18, 2024. The approval included direction for NASA to prepare a follow-on soil vapor monitoring plan for the 200 and 600 Areas and provide it for NMED review no later than November 27, 2024. NASA submitted the follow-on *200 and 600 Area Vapor Monitoring and Intrusion Assessment (VMIA) Abbreviated Investigation Work Plan (AIWP)* on November 16, 2024.

3.4 300/400 Area

- In the third quarter 2024, NASA performed sampling at three new monitoring wells in the 300 and 400 Areas. NMED continued reviewing the *Well Completion Reports (WCR) for NASA White Sands Test Facility (WSTF) 400-001-GW* (August 30, 2024) and NASA submitted the *Well Completion Report (WCR) for NASA White Sands Test Facility (WSTF) 300-001-GSV* and the *Well Completion Report (WCR) for NASA White Sands Test Facility (WSTF) 300-002-GSV* on October 3, 2024.
- NASA continued soil vapor and groundwater monitoring activities in the 400 Area in accordance with the NMED-approved *400 Area Supplemental Groundwater and Soil Vapor Monitoring Plan* (July 11, 2023). NASA completed processing of the analytical data for the second quarterly soil vapor and groundwater monitoring event and submitted the *NASA White Sands Test Facility (WSTF) 400 Area Supplemental Groundwater and Soil Vapor Monitoring Report – Second Quarter 2024* on November 26, 2024. NASA continued receiving and reviewing data from the third quarter soil vapor and groundwater monitoring event performed between August 26 and 28, 2024. The third quarterly report is due to NMED by February 28, 2025. NASA completed the fourth and final quarterly soil vapor and groundwater sampling event on December 12, 2024.
- NMED is reviewing the *Resubmittal of NASA White Sands Test Facility (WSTF) 400 Area Supplemental Groundwater and Soil Vapor Monitoring Report – First Quarter 2024* (September 5, 2024).

3.5 600 Area Perched Groundwater Extraction Pilot Test and Investigation

- In October, November, and December 2024, NASA extracted approximately 241, 169, and 95 gallons of perched groundwater, respectively, from monitoring well 600-G-138 in accordance with NMED's March 1, 2013, *Approval Time Extension for Implementation of the Perched Groundwater Extraction Pilot Test at the 600 Area*, bringing the total to 22,634 gallons of contaminated groundwater since the project began. Groundwater elevation measurements indicate there is approximately 2.93 feet of perched groundwater within this well. This perched groundwater thickness has been relatively consistent since the inception of extraction activities in 2013. Extracted groundwater was containerized for treatment at the Mid-plume Interception and Treatment System (MPITS) and discharged in accordance with DP-1255.
- On November 5, 2024, NMED approved the *600 Area Perched Groundwater Extraction Pilot Test Interim Status Report – Project Year 11* (April 29, 2024).
- On November 5, 2024, NMED approved the *600 Area Perched Groundwater Phase II Abbreviated Investigation Work Plan* (November 27, 2023). NASA is evaluating the available funding for this project in the context of recent budget restrictions and expects to plan and execute Phase 2A of the project in government fiscal year 2025.

3.6 SWMUs 2, 8, and 34 and AOC 51 (Wastewater Lagoons)

- NMED disapproved the *Response to Disapproval of 600 Area Lagoons (SWMU 34) IR and Risk Assessment* (February 21, 2024) on December 9, 2024. NMED directed NASA to address 18 comprehensive comments and provide a revised report no later than March 31, 2025. NASA began reviewing and addressing the comments and developing the revised report.
- NMED is reviewing the *Response to Disapproval of NASA White Sands Test Facility (WSTF) 200 Area Wastewater Lagoons Closure (SWMU 8) Investigation Report* (April 29, 2024) and *the Response to Disapproval of the NASA WSTF 100 Area Wastewater Lagoons Closure (SWMU 2) Investigation Report* (August 29, 2024).

- As indicated in the NMED-approved *NASA White Sands Test Facility (WSTF) STGT Wastewater Lagoons Closure (AOC 51) Investigation Report* (November 20, 2023), no further investigation work is required at AOC 51. The unit is expected to be included in an upcoming petition for corrective action complete status determination.

3.7 SWMU 10 (200 Area Hazardous Waste Transmission Lines [HWTL])

- As indicated in the *Response to Approval with Modifications of the NASA WSTF 200 Area HWTL (SWMU 10) Investigation Report and Risk Assessment Report* (December 27, 2023), no further investigation work is required at SWMU 10. The unit is expected to be included in an upcoming petition for corrective action complete status determination.

3.8 SWMU 16 (600 Area BLM Off-site Soil Pile)

- NASA completed Remedy Completion Report and Risk Screen Evaluation work in October and November 2024 and submitted the *NASA WSTF 600 Area Bureau of Land Management Off-Site Pile (SWMU 16) Remedy Completion Report and Risk Screen Evaluation* on November 19, 2024.

3.9 SWMUs 21-27 (Septic Tanks) and SWMUs 30 & 31 (Small Arms Firing Ranges)

- NMED evaluated the *NASA White Sands Test Facility Petition for Corrective Action Status Review* (April 4, 2024) and determined the petition was administratively incomplete. NASA addressed eight NMED comments and submitted the *Response to Administratively Incomplete Determination Petition for Corrective Action Status Review White Sands Test Facility SWMUs 21-27, 30, and 31* on October 23, 2024.
- NASA distributed the *Public Neighbor Letter for Class 3 Permit Modification* to entities on the facility mailing list on October 17, 2024. NASA published the required advertisement (public notice) in the Las Cruces Bulletin on October 18, 2024 and posted the required public notices at the Branigan Library in Las Cruces and on signs at WSTF on October 20, 2024.
- NASA scheduled and hosted the required public meeting on November 13, 2024 at the Branigan Library in Las Cruces. No members of the public attended the meeting. NASA submitted the *Documentation of Public Meeting supporting Petition For Class 3 Permit Modification of the White Sands Test Facility RCRA Permit* on November 21, 2024.
- The 60-day public comment period for the permit modification request (*NASA White Sands Test Facility Petition for Corrective Action Status Review*) (October 23, 2024) ended on December 20, 2024. NMED is reviewing the request.

3.10 SWMU 29 (Small Arms Firing Ranges)

- Following NMED approval of the revised *NASA White Sands Test Facility (WSTF) STGT Wastewater Lagoons Closure (AOC 51) Investigation Report* on September 3, 2024, NASA determined that the STGT small arms firing range (SWMU 29) will be included in NASA's next Class 3 Permit modification request for corrective action complete status determination.

3.11 SWMU 33 (Test Stand 302 Cooling Water Pond)

- In accordance with the NMED-approved *NASA WSTF 300 Area Test Stand 302 Cooling Water Pond (SWMU 33) Investigation Work Plan and Historical Information Summary* (revised on April 26, 2024), a final investigation report is to be submitted to NMED no later than May 31, 2025. As indicated on page 9 of Enclosure 2 in NASA's December 13, 2024 *Corrective Action Projects; Proposal to Restructure Priorities and Schedule*, NASA proposes postponing investigation fieldwork to at least government fiscal year 2027 because of current budget restrictions.

3.12 SWMU 49 (700 Area Landfill)

- NMED approved the *700 Area (SWMU 49) Landfill Phase II Work Plan* (October 25, 2023) with modifications on July 31, 2024. NMED directed NASA to address two comments and submit a revised work plan no later than October 31, 2024. NASA submitted the *Response to Approval with Modifications of the NASA White Sands Test Facility (WSTF) 700 Area Landfill (SWMU 49) Phase II Abbreviated Investigation Work Plan* on October 30, 2024. As indicated on page 3 of Enclosure 2 in NASA's December 13, 2024 *Corrective Action Projects; Proposal to Restructure Priorities and Schedule*, NASA proposes postponing the Phase 2 investigation to at least government fiscal year 2026 because of current budget restrictions.

3.13 SWMU 54 (500 Area Former Oxidizer Burner)

- NMED is reviewing the *500 Area Former Oxidizer Burning (SWMU 52) Investigation Report* (July 25, 2024).

3.14 Groundwater Monitoring Well Abandonment, Installation, and Reconfiguration

- NMED disapproved the *Reconfiguration Report for NASA Well BW-4* (March 21, 2023) on February 6, 2024. NMED provided a comment about the report and directed NASA to address it and provide a revised report no later than July 31, 2024. To adequately address the comment, NASA determined that additional well development is required, which required additional time. NASA submitted the *Request for Extension of Time for Submittal of NASA White Sands Test Facility (WSTF) Response to the Disapproval of Reconfiguration Report for Well BW-4* on July 22, 2024. NMED approved the request on July 31, 2024, extending the due date for submittal of the revised report to November 30, 2024. NASA performed additional well development required to provide information required in NMED's disapproval and submitted the *Response to the Disapproval of Reconfiguration Report for Well BW-4* on November 21, 2024.
- NMED is reviewing the *Response to Disapproval of the NASA WSTF Westbay Well Reconfiguration Work Plan for Wells PL-7, PL-8, PL-10, ST-5, and WW-3* (August 30, 2024).
- NASA had planned several well replacement and/or installation projects during 2024. As a result of ongoing and anticipated future agency budget cuts, NASA's ability to meet the approved schedules for submitting well completion reports has been negatively impacted. As a result, NASA submitted the *Status of Several NASA White Sands Test Facility (WSTF) Abandonment and Well Completion Reports* on July 31, 2024. NASA followed this with the *Corrective Action Projects; Proposal to Restructure Priorities and Schedule* on December 13, 2024. Table 1.1 of that submittal provides NASA's recommendations on well replacement and/or installation projects scheduled for the next several government fiscal years.

3.15 Targeted Mobile Remediation Process (TMRP)

- NMED approved the *Targeted Mobile Remediation Process Pilot Test Work Plan, Phase 2* (April 25, 2023) on May 15, 2024. NASA reviewed the available resources for this project and proposed an alternate schedule for implementation on page 7 of Enclosure 1 in the December 13, 2024 *Corrective Action Projects; Proposal to Restructure Priorities and Schedule*.

3.16 Groundwater Data Representativeness Evaluation

- NMED is reviewing the *Groundwater Data Representativeness Phase 2 Disapproval Response: Water FLUTe Well Evaluation Abbreviated Investigation Report* (July 31, 2024).

3.17 400 Area Isopropyl Alcohol Release

- On October 18, 2024, approximately 1,100 gallons of isopropyl alcohol (IPA) was released to the environment during a rocket engine test in the WSTF 400 Area. NASA notified NMED of

the release using the NMED online release reporting portal (Incident #18546) and via email to Gabe Acevedo on October 18, 2024. NASA submitted the *NASA White Sands Test Facility (WSTF) Written Release Notification 5-day Spill Report following 24-hour Notification (Incident #18573)* on October 23, 2024 and the *NASA White Sands Test Facility (WSTF) Follow Up Notification for an Isopropyl Alcohol Release* on November 13, 2024. NMED responded to the follow-up notification on December 19, 2024 with direction for NASA to provide a work plan for investigation of the release no later than February 28, 2025.

3.18 Dye Tracer Test Investigation

- Refer to page 5 of the December 13, 2024 *Corrective Action Projects; Proposal to Restructure Priorities and Schedule*.

4.0 Non-compliance Issues

The NASA RCRA Permit requires that other non-compliance conditions be reported to NMED. There were no instances of other non-compliance conditions during this reporting period that require notification under the Permit. The criteria for non-compliance reporting in this report (as defined by 40 CFR 270.30 (l)(10) and EPA interpretations at RCRA Faxbacks 13142 and 13686) would be any non-compliance with permit conditions that is not classified as minor recordkeeping, reporting, and similar oversights that were corrected once discovered. Additionally, there were no issues meeting the previously defined criteria (minor items immediately corrected) that were part of a repeating pattern of non-compliance.

5.0 Documents Submitted

5.1 Documents submitted to the Hazardous Waste Bureau in the fourth quarter of 2024

- *Well Completion Report (WCR) for NASA White Sands Test Facility (WSTF) 300-001-GSV and 400-001-GW Analytical Results,* October 3, 2024
- *Well Completion Report (WCR) for NASA White Sands Test Facility (WSTF) 300-002-GSV,* October 3, 2024
- *Exception Report of the 45-day Exceedance on Return of Hazardous Waste Shipping Manifests 024161898JJK and 024161900JJK,* October 10, 2024
- *NASA White Sands Test Facility (WSTF) Quarterly Environmental Activity Report for Third Quarter 2024,* October 11, 2024
- *Response to Administratively Incomplete Determination Petition for Corrective Action Status Review White Sands Test Facility SWMUs 21-27, 30, and 31,* October 23, 2024
- *NASA White Sands Test Facility (WSTF) Written Release Notification 5-day Spill Report following 24-hour Notification (Incident #18573),* October 23, 2024
- *Exception Report of the 45-day Exceedance on Return of Hazardous Waste Shipping Manifest 024161903JJK,* October 25, 2024
- *NASA JSC White Sands Test Facility 2024 Annual Fee Payment Confirmation,* October 30, 2024
- *Fee Assessment for the 2024 WSTF Soil Vapor Risk-based Concentrations Memorandum (NMED Invoice Number HWB-NASA-24-011),* October 30, 2024
- *NASA WSTF Periodic Monitoring Report – Third Quarter 2024,* October 30, 2024

- *Response to Approval with Modifications of the NASA White Sands Test Facility (WSTF) 700 Area Landfill (SWMU 49) Phase II Abbreviated Investigation Work Plan,* October 30, 2024
- *Request to Reevaluate Fee Assessment for 400 Area Supplemental Groundwater and Soil Vapor Monitoring Report – First Quarter 2024 (NMED Invoice Number HWB-NASA-24-010),* November 6, 2024
- *Exception Report of the 45-day Exceedance on Return of Hazardous Waste Shipping Manifest 024161907JJK,* November 13, 2024
- *NASA White Sands Test Facility (WSTF) Follow Up Notification for an Isopropyl Alcohol Release,* November 13, 2024
- *NASA WSTF 600 Area Bureau of Land Management Off-Site Pile (SWMU 16) Remedy Completion Report and Risk Screen Evaluation,* November 19, 2024
- *Plugging and Abandonment of NASA Well PFI-1,* November 20, 2024
- *Documentation of Public Meeting supporting Petition For Class 3 Permit Modification of the White Sands Test Facility RCRA Permit,* November 21, 2024
- *Response to Disapproval of Reconfiguration Report for NASA Well BW-4,* November 21, 2024
- *Fee Assessment for the 300-002-GSV Well Completion Report (NMED Invoice Number HWB-NASA-24-013),* November 22, 2024
- *Fee Assessment for the 300-001-GSV Well Completion Report (NMED Invoice Number HWB-NASA-24-012),* November 22, 2024
- *Fee Assessment for the 400-001-GW Well Completion Report (NMED Invoice Number HWB-NASA-24-009),* November 22, 2024
- *Response to Approval with Modifications NASA WSTF Periodic Monitoring Report – Fourth Quarter 2023,* November 25, 2024
- *200 and 600 Area Vapor Monitoring and Intrusion Assessment (VMIA) Abbreviated Investigation Work Plan (AIWP),* November 26, 2024
- *NASA White Sands Test Facility (WSTF) 400 Area Supplemental Groundwater and Soil Vapor Monitoring Report – Second Quarter 2024,* November 26, 2024
- *NASA White Sands Test Facility (WSTF) 2024 Waste Minimization Program Certification and Plan,* November 26, 2024
- *Fee Assessment for the 400 Area Supplemental Groundwater and Soil Vapor Monitoring Report First Quarter 2024 (NMED Invoice Number HWB-NASA-24-010),* December 5, 2024
- *Fee Assessment for the Third Quarter 2024 Period Monitoring Report (NMED Invoice Number HWB-NASA-24-014),* December 11, 2024
- *NASA White Sands Test Facility (WSTF) Corrective Action Projects; Proposal to Restructure Priorities and Schedule,* December 13, 2024
- *NASA White Sands Test Facility (WSTF) 2025 Soil Vapor Risk Based Concentrations (RBCs) Memorandum – Request for Non-submission by January 31, 2025,* December 24, 2024

5.2 Pertinent documents submitted to other NMED bureaus in the fourth quarter of 2024

- *NASA White Sands Test Facility (WSTF) Groundwater Treatment Systems Flow Meter Certificates of Limited Calibration*, Ground Water Quality Bureau, October 15, 2024

- *NASA White Sands Test Facility (WSTF) Written Release Notification Final Spill Report following 24-hour notification (Incident #18546)*, Ground Water Quality Bureau, October 16, 2024
- *Fee for Ground Water, 20080004, DP-1170 – Discharge Permit Renewal*, Ground Water Quality Bureau, October 30, 2024
- *Air Permit 629-M5 Modification Request*, Air Quality Bureau, November 7, 2024
- *Notice of Intent to Discharge Groundwater at NASA White Sands Test Facility (WSTF) During Abandonment of Well PFI-1*, Ground Water Quality Bureau, November 20, 2024
- *NASA White Sands Test Facility (WSTF) 700 Area Landfill 2023 Second Semi-Annual and the 2024 First Semi-Annual Groundwater Detection Monitoring Reports*, Solid Waste Bureau, November 25, 2024
- *NASA White Sands Test Facility - FF Fourth Quarter 2024 Disinfectant Residual Monitoring Report*, Drinking Water Bureau, December 20, 2024
- *Pre-closure Notification of WSTF Plume Front Treatment System Well PFI-1*, Ground Water Quality Bureau, December 20, 2024
- *NMED Routine Report MACT Report - Opacity/Visible Emissions Test Results for LASS Diesels, Boilers, and Firing Ranges,* Air Quality Bureau, December 20, 2024

5.3 Status of documents previously submitted to the NMED Hazardous Waste Bureau for which additional correspondence was recorded in the fourth quarter of 2024

- NASA completed investigation fieldwork at SWMU 16 in accordance with the approved work plan and submitted the *Request for Extension of Time for NASA White Sands Test Facility (WSTF) 600 Area Bureau of Land Management Off-site Soil Pile (SWMU 16) Remedy Completion Report* on July 22, 2024. NMED approved the request on July 31, 2024, extending the due date for submittal of the report to November 20, 2024. NASA submitted the *NASA WSTF 600 Area Bureau of Land Management Off-Site Pile (SWMU 16) Remedy Completion Report and Risk Screen* Evaluation on November 19, 2024.
- NASA submitted the *NASA White Sands Test Facility (WSTF) 700 Area Landfill (SWMU 49) Phase II Abbreviated Investigation Work Plan* on October 25, 2023. NASA received NMED's December 4, 2023 fee assessment for review of the plan and submitted the $15,000 review fee to NMED on December 19, 2023. NMED approved the report with modifications on July 31 and directed NASA to address two comments and submit a revised report no later than October 31, 2024. NASA submitted the *Response to Approval with Modifications of the NASA White Sands Test Facility (WSTF) 700 Area Landfill (SWMU 49) Phase II Abbreviated Investigation Work* Plan on October 30, 2024.
- NASA submitted the *NASA White Sands Test Facility (WSTF) 400 Area Supplemental Groundwater and Soil Vapor Monitoring Report – First Quarter 2024* on August 30, 2024. NASA subsequently identified a discrepancy in the report and provided the *Resubmittal of NASA White Sands Test Facility (WSTF) 400 Area Supplemental Groundwater and Soil Vapor Monitoring Report – First Quarter 2024* on September 5, 2024. NASA received NMED's October 15, 2024 fee assessment and invoice for review of the report and provided the $8,000 review fee on December 5, 2024. NASA submitted the *NASA White Sands Test Facility (WSTF) 400 Area Supplemental Groundwater and Soil Vapor Monitoring Report – Second Quarter* 2024 on November 26, 2024.

- NASA submitted the *Well Completion Report (WCR) for NASA White Sands Test Facility (WSTF) 300-001-GSV and 400-001-GW Analytical Results* and the *Well Completion Report (WCR) for NASA White Sands Test Facility (WSTF) 300-002-GSV* on October 3, 2024. NASA received NMED's October 15, 2024 fee assessment and invoice for review well completion reports for wells 300-001-GSV and 300-002-GSV and provided two $3,000 fees for review of the reports on November 22, 2024.
- NASA submitted the *Response to Disapproval of 600 Area Lagoons (SWMU 34) IR and Risk Assessment* on February 21, 2024. NMED disapproved the revised report on December 9, 2024 and directed NASA to address 18 comments and submit a revised report no later than March 31, 2024.
- NASA submitted the *NASA White Sands Test Facility (WSTF) 600 Area Perched Groundwater Phase II Abbreviated Investigation Work Plan* on November 27, 2023. NASA received NMED's January 10, 2024 fee assessment for review of the report and provided the $15,000 review fee on February 5, 2024. NMED approved the work plan on November 5, 2024.
- NASA submitted the *Request for Extension of Time for Submittal of NASA White Sands Test Facility (WSTF) Response to the Disapproval of Reconfiguration Report for Well BW-4* on July 22, 2024. NMED approved the request on July 31, 2024, extending the due date for submittal of the revised report to November 30, 2024. NASA submitted the *Response to Disapproval of Reconfiguration Report for NASA Well BW*-4 on November 21, 2024.
- NASA submitted the *Submittal of Well Completion Reports (WCR) for NASA White Sands Test Facility (WSTF) 400-001-GW* on August 30, 2024. NASA received NMED's October 15, 2024 fee assessment and invoice for review of the report and provided the $2,000 review fee on November 22, 2024.
- NASA submitted the *NASA White Sands Test Facility (WSTF) Well Completion Report for PFAS Site Investigation Well Completion Summary Report* on March 29, 2024. NASA received NMED's May 7, 2024 fee assessment and invoice for review of the report and provided the $6,000 review fee on May 21, 2024. NMED approved the report with modifications on November 5, 2024 and directed NASA to address a comment and submit a revised report no later than January 31, 2025.
- NASA submitted the *NASA WSTF Periodic Monitoring Report – Fourth Quarter 2023* on March 7, 2024. NASA received NMED's April 2, 2024 fee assessment for review of the report and provided the $5,000 review fee on April 18, 2024. NMED approved the report with modifications on October 3, 2024 and directed NASA to address two comments and submit a revised report no later than December 2, 2024. NASA submitted the *Response to Approval with Modifications NASA WSTF Periodic Monitoring Report – Fourth Quarter 2023* on November 25, 2024.
- the *NASA White Sands Test Facility Petition for Corrective Action Status Review* on April 4, 2024. The petition requested a corrective action complete status determination for nine WSTF solid waste management units. NMED provided the Administratively Incomplete Determination for the petition on September 3, 2024. NMED directed NASA to address eight comments and submit a revised petition by October 31, 2024. NASA addressed eight NMED comments and submitted the *Response to Administratively Incomplete Determination Petition for Corrective Action Status Review White Sands Test Facility SWMUs 21-27, 30, and 31* on October 23, 2024. NASA distributed the *Public Neighbor Letter for Class 3 Permit Modification* to entities on the facility mailing list on October 17, 2024. NASA published the required advertisement (public notice) in the Las Cruces Bulleting on October 18, 2024 and posted the required public notices at the Branigan Library in Las Cruces and on signs at WSTF

on October 20, 2024. NASA scheduled and hosted the required public meeting on November 13, 2024 at the Branigan Library in Las Cruces and submitted the *Documentation of Public Meeting supporting Petition For Class 3 Permit Modification of the White Sands Test Facility RCRA Permit* on November 21, 2024.

- NASA submitted the *600 Area Perched Groundwater Extraction Pilot Test Interim Status Report – Project Year 11* on April 29, 2024. NASA received NMED's July 2, 2024 fee assessment and invoice for review of the report and provided the $8,000 review fee on July 18, 2024. NMED approved the report on November 13, 2024.
- NASA submitted the *NASA White Sands Test Facility (WSTF) 2024 Soil Vapor Risk Based Concentrations (RBCs) Memorandum* on September 27, 2024. NASA received NMED's October 15, 2024 fee assessment and invoice for review of the report and provided the $14,000 review fee on October 30, 2024.
- NASA notified NMED of a release of isopropyl alcohol in the WSTF 400 Area using the NMED online release reporting portal (Incident #18546) and via email on October 18, 2024. NASA submitted the *NASA White Sands Test Facility (WSTF) Written Release Notification 5-day Spill Report following 24-hour Notification (Incident #18573)* on October 23, 2024 and the *NASA White Sands Test Facility (WSTF) Follow Up Notification for an Isopropyl Alcohol Release* on November 13, 2024. NMED responded to the follow-up notification on December 19, 2024 with direction for NASA to provide a work plan for investigation of the release no later than February 28, 2025.
- NASA submitted the *NASA WSTF Periodic Monitoring Report – Third Quarter 2024* on October 30, 2024. NASA received NMED's December 2, 2024 fee assessment and invoice for review of the report and provided the $5,000 review fee on December 11, 2024.