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, 2026

Reply to Attn of: RE-26-007

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 2025

Enclosed is the NASA White Sands Test Facility (WSTF) Quarterly Environmental Activity Report for fourth quarter 2025. 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 me at 575-524-5460.

Amanda Skarsgard
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Amanda G. Skarsgard
Environmental Compliance Manager

3 Enclosures

cc:
Ms. Melissa Milner
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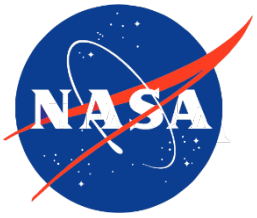
National Aeronautics and Space Administration



Quarterly Environmental Activity Report

Fourth Quarter 2025

NM8800019434

Report Deadline: January 15, 2026

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

Fourth Quarter 2025

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.

Amanda Skarsgard

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Amanda G. Skarsgard
Environmental Compliance Manager

Date

National Aeronautics and Space Administration

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Executive Summary

The following summarizes important information associated with National Aeronautics and Space Administration (NASA) White Sands Test Facility (WSTF) environmental program activities in the fourth quarter (October – December) of 2025:

- NASA completed shipments of hazardous and special waste in October 2025 and shipments of hazardous, special, universal, and medical/infectious waste in November 2025.
- NASA sampled 40 of 43 groundwater monitoring wells scheduled for October 2025, 35 of 36 wells scheduled for November 2025, and 38 of 38 wells scheduled for December 2025. NASA scheduled 37 groundwater monitoring wells for sampling in January 2026.
- NASA operated the Mid-plume Interception and Treatment System (MPITS) and Plume Front Treatment System (PFTS) for 18 and 31 days in October 2025, 17 and 8 days in November 2025, and 17 and 9 days in December 2025, respectively.
- NASA continued groundwater extraction at former Mid-plume Exploration Wells MPE-3 and MPE-4. Contaminated groundwater is being transported to and treated at the MPITS.
- NASA began planning for the investigation of the 400 Area isopropyl alcohol release.
- NASA submitted six documents to the New Mexico Environment Department Hazardous Waste Bureau in the fourth quarter of 2025.
- There were no reportable non-compliance issues in October, November, or December 2025.

1.0 Waste Management Activities

1.1 NASA completed the following waste shipments in the fourth quarter of 2025.

Date	Shipped To	Type of Waste	No. of Containers	Amount of Waste
10/16/25	Veolia, Henderson, CO	Hazardous (Lab Pack)	6	205 kg
10/16/25	US Ecology, Beatty, NV	Hazardous	3	130 kg
10/30/25 11/7/25	Corralitos Landfill, Las Cruces, NM	Special	2	30,781 kg
11/5/25	Stericycle, El Paso, TX	Medical/Infectious	1	5 kg
11/20/25	Veolia, Henderson, CO	Hazardous (Lab Pack)	8	161 kg
11/20/25	US Ecology, Beatty, NV	Hazardous	4	1,208 kg
11/20/25	Clean Harbors, Aragonite, UT	Hazardous	3	709 kg
11/20/25	ACT, Albuquerque, NM	Hazardous/Universal	1	34 kg

2.0 Environmental Monitoring

2.1 NASA performed sampling at 40 of 43 groundwater monitoring wells and zones scheduled for sampling in October 2025, 35 of 36 wells and zones in November 2025, and 38 of 38 wells and zones in December 2025 in accordance with the approved Groundwater Monitoring Plan (GMP). In October and November 2025, NASA was unable to sample wells 600A-003-GW, BLM-40-517, PL-1-486, and BLM-17-493 because there was inadequate groundwater in the wells to provide representative samples. Previous deviations from the planned sampling schedule are described below and have been reported to NMED in previous quarterly reports:

- 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.

2.2 NASA performed other regulatory groundwater sampling requirements as scheduled and as allowed by operational status.

2.3 NASA developed the January groundwater sampling schedule and plans to sample 37 groundwater monitoring wells or zones based on GMP requirements.

3.0 Corrective Actions/Investigations

3.1 MPITS Upgrades

On July 16 and 17, 2025, NASA activated Mid-plume Exploration/Extraction (MPE) wells MPE-4 and MPE-3, respectively as indicated in the *Remediation System Monitoring Plan Annual Update for 2025*,

which was submitted to the NMED Hazardous Waste Bureau on July 30, 2025. The wells are configured with solar-powered down-hole pumps and motors, wellheads with flow meters approved by the New Mexico Office of the State Engineer, and appropriate hoses to connect each well to a portable container (tanker trailer) to facilitate containment of extracted groundwater and transfer to the Mid-plume Interception and Treatment System (MPITS) for treatment and disposal in accordance with discharge permit (DP)-1255. Throughout the remainder of 2025, NASA operated wells MPE-3 and MPE-4 during daylight hours, extracting approximately 1.03 acre-feet of contaminated groundwater. All extracted groundwater was containerized in portable tanker trailers and transferred to the MPITS for treatment and disposal.

3.2 Mid-plume Interception and Treatment System Operations

Month	Days Operated	Average Flow Rate (gpm)	Volume Extracted and Treated (acre-feet)	Volume Extracted from MPE-3/4 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-25	18 of 31	7.8	0.50	0.30	0.75	110
Nov-25	17 of 30	7.7	0.43	0.14	0.57	32
Dec-25	17 of 31	7.8	0.43	0.14	0.57	0

Shutdown Date	Restart Date	Shutdown Status	Discussion
10/2/25	10/6/25	Planned	The system was shut down to allow aquifer levels to recover over the weekend.
10/10/25	10/14/25	Planned	The system was shut down to allow aquifer levels to recover over the holiday weekend.
10/16/25	10/20/25	Planned	The system was shut down to repair a failed communication switch.
10/24/25	10/27/25	Unplanned	The system was shut down to allow aquifer levels to recover over the weekend.
10/30/25	11/3/25	Planned	The system was shut down to allow aquifer levels to recover over the weekend.
11/7/25/25	11/10/25	Planned	The system was shut down to allow aquifer levels to recover over the weekend.
11/13/25	11/17/25	Planned	The system was shut down to allow aquifer levels to recover over the weekend.
11/21/25	11/24/25	Unplanned	The system was shut down to allow aquifer levels to recover over the weekend.
11/25/25	12/1/25	Planned	The system was shut down to allow aquifer levels to recover over the holiday weekend.

Shutdown Date	Restart Date	Shutdown Status	Discussion
12/4/25	12/4/25	Unplanned	The system shut down automatically because of a low-level alarm in the UV reactor.
12/5/25	12/8/25	Planned	The system was shut down to allow aquifer levels to recover over the weekend.
12/8/25	12/8/25	Unplanned	The system was shut down briefly to inspect and lubricate the air stripper blower.
12/12/25	12/15/25	Planned	The system was shut down to allow aquifer levels to recover over the weekend.
12/19/25	12/28/25	Planned	The system was shut down to allow aquifer levels to recover over the holiday break.
12/29/25	12/30/25	Unplanned	The system shut down automatically because of a communications fault in the UV reactor.

3.3 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-25	31 of 31	795	108.4	109.0	0.42	0.000
Nov-25	8 of 30	630	26.1	26.2	0.30	0.005
Dec-25	9 of 31	796	26.1	26.2	0.30	0.005

Shutdown Date	Restart Date	Shutdown Status	Discussion
11/1/25	11/3/25	Unplanned	The system shut down automatically because of plugged air stripper filters.
11/10/25	11/10/25	Unplanned	The system shut down automatically because of a fault on the Main PLC.
11/11/25	12/16/25	Planned	The system was shut down to perform scheduled maintenance.
12/16/25	12/16/25	Unplanned	The system failed to fully restart due to a communications issue with the server.
12/24/25		Unplanned	The system shut down automatically because of a leak detection alarm and remained offline over the holiday break.

3.4 200 Area Investigation

- NMED is reviewing the follow-on *200 and 600 Area Vapor Monitoring and Intrusion Assessment (VMIA) Abbreviated Investigation Work Plan (AIWP)* (November 16, 2024).

3.5 300/400 Area

- NMED is reviewing the *Well Completion Reports (WCR) for NASA White Sands Test Facility (WSTF) 400-001-GW* (August 30, 2024), the *Well Completion Report (WCR) for NASA White Sands Test Facility (WSTF) 300-001-GSV* (October 3, 2024), and the *Well Completion Report (WCR) for NASA White Sands Test Facility (WSTF) 300-002-GSV* (October 3, 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), the *NASA White Sands Test Facility (WSTF) 400 Area Supplemental Groundwater and Soil Vapor Monitoring Report – Second Quarter 2024* (November 26, 2024), the *400 Area Supplemental Groundwater and Soil Vapor Monitoring Report – Third Quarter 2024* (February 25, 2025), and the *400 Area Supplemental Groundwater and Soil Vapor Monitoring Report – Fourth Quarter 2024* (May 29, 2025).

3.6 600 Area Perched Groundwater Extraction Pilot Test and Investigation

- In mid-July 2025, NASA suspended the perched groundwater extraction pilot test because of agency-imposed resource restrictions. At the time operations were suspended, NASA had extracted 23,702 gallons of perched groundwater 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*. The 2.78 feet of perched groundwater within the well has been relatively consistent since the inception of extraction activities in 2013.
- On November 17, 2025, NMED approved the *Proposal to Transition NASA White Sands Test Facility (WSTF) 600 Area Perched Groundwater Extraction Pilot Test (PGEPT) Annual Reporting into Projected Targeted Mobile Remediation Process (TMRP) Annual Reporting Following Submittal of the PGEPT – Project Year 12 Report* (February 19, 2025). However, with the suspension of perched groundwater extraction and the postponement of TMRP Phase 2 to FY2027, integrated reporting will also be postponed.
- NMED is reviewing the *600 Area Perched Groundwater Extraction Pilot Test Interim Status Report – Project Year 12* (April 28, 2025) and the *600 Area Perched Groundwater Phase IIa Status Report* (June 30, 2025).

3.7 SWMUs 1 and 14 (100 Area Burn Pit and 600 Area Remote JP Test Area)

- NMED is reviewing the *NASA White Sands Test Facility (WSTF) Per- and Polyfluoroalkyl Substances Investigation Work Plan* (July 29, 2025), which includes SWMU 1.

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

- As indicated in the NMED-approved *Response to Disapproval of the NASA WSTF 100 Area Wastewater Lagoons Closure (SWMU 2) Investigation Report* (August 29, 2024), no further investigation work is required at SWMU 2. Final closure is required before the unit is included in a petition for corrective action complete status determination.
- On November 17, 2025, NMED disapproved the *Response to Disapproval of NASA White Sands Test Facility (WSTF) 200 Area Wastewater Lagoons Closure (SWMU 8) Investigation Report* (April 29, 2024) with three comments. NMED directed NASA to address the comments and submit a revised investigation report no later than March 20, 2026.

- 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. Final closure is required before the unit is included in a petition for corrective action complete status determination.
- NMED is reviewing the *Response to Second Disapproval of the NASA WSTF 600 Area Wastewater Lagoons Closure (SWMU 34) Investigation Report* (March 28, 2025).

3.9 SWMUs 3, 15, and 19 (100 Area Container Storage, 600 Area Burn Pit, and 800 Area Below Ground Storage Tank)

- NMED is reviewing the *NASA White Sands Test Facility (WSTF) SWMUs 3, 15, and 19 Risk Screen Evaluation* (September 16, 2025).

3.10 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.

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

- NMED is reviewing the *NASA WSTF 600 Area Bureau of Land Management Off-Site Pile (SWMU 16) Remedy Completion Report and Risk Screen Evaluation* (November 19, 2024).

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

- NMED is reviewing a permit modification request (*NASA White Sands Test Facility Petition for Corrective Action Status Review*) (October 23, 2024).

3.13 SWMU 29 (Small Arms Firing Ranges)

- As indicated in the NMED-approved *NASA White Sands Test Facility (WSTF) STGT Wastewater Lagoons Closure (AOC 51) Investigation Report* (September 3, 2024), no further investigation work is required at SWMU 29. The unit is expected to be included in an upcoming petition for corrective action complete status determination.

3.14 SWMU 33 (Test Stand 302 Cooling Water Pond)

- Based on agency resource limitations, NASA requested an extension of time for submittal of the SWMU 33 investigation report to September 30, 2030. NMED approved the request and NASA postponed investigation fieldwork accordingly.

3.15 SWMU 49 (700 Area Landfill)

- Based on agency resource limitations, NASA requested an extension of time for submittal of the Phase II investigation report to September 30, 2031. NMED approved the request and NASA postponed investigation fieldwork accordingly.

3.16 SWMU 54 (500 Area Former Oxidizer Burner)

- On November 17, 2025, NMED approved the *500 Area Former Oxidizer Burning (SWMU 52) Investigation Report* (July 25, 2024) with one comment that does not require a report revision. Because the investigation report states that the SWMU is a candidate for no further action and corrective action complete, the unit is expected to be included in an upcoming petition for corrective action complete status determination.

3.17 Groundwater Monitoring Well Abandonment, Installation, and Reconfiguration

- 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) and the *Response to the Disapproval of Reconfiguration Report for Well BW-4* (November 21, 2024).
- Based on agency resource limitations, the schedules for installation of nine previously approved groundwater monitoring wells were adjusted as indicated below:
  - NMED approved the *Request for Extension of Time for Submittal of Well Completion Report for Monitoring Well 600C-003-GW*, extending the due date for submittal of the well completion report to December 1, 2027.
  - NMED approved the *Request for Extension of Time for Submittal of Well Completion Report for Monitoring Well 600C-004-GW*, extending the due date for submittal of the well completion report to February 27, 2026.
  - NMED conditionally approved the *Request for Fifth Extension of Time for Submittal of the Completion Report for Monitoring Well BLM-30 Abandonment and Installation of Replacement Monitoring Well BLM-43*, extending the due date for submittal of the well completion report to December 1, 2028.
  - NMED approved the *Request for Second Extension of Time for Submittal of Well Completion Report for Monitoring Well 600C-002-GW*, extending the due date for submittal of the well completion report to December 1, 2026.
  - NMED disapproved the *Request to Indefinitely Defer Submittal of Completion Report for Monitoring Wells 200-001-GW, 200-002-GW, and 400-002-GW*, with direction to submit the report documenting project activities to NMED no later than December 31, 2026.
  - NMED approved the *Request to Indefinitely Defer Submittal of the Completion Report for Monitoring Well 600B-001-GW.*
  - NMED approved the *Request to Indefinitely Defer Submittal of the Completion Report for Monitoring Well 600C-001-GW.*

3.18 Targeted Mobile Remediation Process (TMRP)

- Based on agency resource limitations, NASA requested that the due date for submittal of the first annual interim status report be extended from August 2025 to August 31, 2028. NMED approved the request and NASA postponed investigation fieldwork accordingly.

3.19 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).

3.20 400 Area Isopropyl Alcohol Release

- On November 17, 2025, NMED approved the *NASA White Sands Test Facility (WSTF) 400 Isopropyl Alcohol Release Abbreviated Investigation Work Plan* (February 24, 2025). NMED directed NASA to initiate investigation fieldwork within 60 days of work plan approval (January 16, 2026). NASA is planning investigation fieldwork.

3.21 PFAS Investigation

- NMED is reviewing the *NASA White Sands Test Facility (WSTF) Per- and Polyfluoroalkyl Substances Investigation Work Plan* (July 29, 2025).

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 2025

- *60-day Manifest Exception Rpt. for HW Manifest 025839901JJK*, November 13, 2025
- *NASA JSC White Sands Test Facility 2025 Annual Fee Payment*, November 17, 2025
- *Fee Assessment for the SWMUs 3, 15, and 19 Risk Screen Evaluation (NMED Invoice Number HWB-NASA-25-013)*, November 17, 2025
- *NASA White Sands Test Facility (WSTF) Quarterly Environmental Activity Report for Third Quarter 2025*, November 25, 2025
- *NASA White Sands Test Facility (WSTF) 2025 Waste Minimization Program Certification and Plan*, November 25, 2025
- *NASA WSTF Groundwater Monitoring Plan Update for 2025; Supplement for Optimization*, December 15, 2025

5.2 Pertinent documents submitted to other NMED bureaus in the fourth quarter of 2025

- *Verification of Lead Consumer Notice Issuance*, Drinking Water Bureau, October 1, 2025
- *NASA White Sands Test Facility (WSTF) Groundwater Treatment Systems Totalizer Field Certificates of Limited Calibration*, Ground Water Quality Bureau, November 24, 2025
- *Quarterly Opacity/Emissions Eval of LASS Diesels (Units 4-10)*, Air Quality Bureau, November 24, 2025

5.3 Status of documents previously submitted to the NMED Hazardous Waste Bureau for which additional correspondence was recorded in the fourth quarter of 2025

- NASA submitted the *Response to Disapproval of the NASA WSTF 100 Area Wastewater Lagoons Closure (SWMU 2) Investigation Report* on August 29, 2024. NMED approved the revised investigation report with comments on November 17, 2025. None of the four comments required additional revisions or responses from NASA.
- NASA submitted the *Response to Disapproval of the NASA White Sands Test Facility (WSTF) 200 Area Wastewater Lagoons Closure (SWMU 8) Investigation Report* on March 30, 2024. NASA subsequently submitted the *Quality Assurance Reports for the Response to Disapproval of the NASA White Sands Test Facility (WSTF) 200 Area Wastewater Lagoons Closure (SWMU 8) Investigation Report* on May 29, 2024. NMED disapproved the revised investigation report on November 12, 2025. NMED directed NASA to address three comments and submit a revised investigation report no later than March 20, 2026.

- NASA submitted the *NASA White Sands Test Facility (WSTF) 500 Area Former Oxidizer Burner (SWMU 54) Investigation Report (IR)* on July 25, 2024. NASA received NMED's August 7, 2024 fee assessment and invoice for review of the report and provided the $20,000 review fee on August 15, 2024. NMED approved the investigation report on November 17, 2025.
- NASA submitted the *PGEPT 2025 Transition to TMRP Reporting Proposal* on February 19, 2025. NMED approved the proposal with a three-part comment on November 17, 2025.
- NASA submitted the *NASA White Sands Test Facility (WSTF) 400 Isopropyl Alcohol Release Abbreviated Investigation Work Plan* on February 24, 2025. NASA received NMED's March 11, 2025 fee assessment and invoice for review of the work plan and provided the $5,000 review fee on March 18, 2025. NMED approved the work plan on November 17, 2025 and directed NASA to begin investigation work within 60 days of that approval.
- NASA submitted the *NASA White Sands Test Facility (WSTF) SWMUs 3, 15, and 19 Risk Screen Evaluation* on September 16, 2025. NASA received NMED's September 25, 2025 fee assessment and invoice for review of the evaluation and provided the $6,000 review fee on November 17, 2025.

From:	Hutchison, Tiffany R. (WSTF-RE-ENV)[NAVARRO RESEARCH AND ENGINEERING, INC.]
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Subject:	RE-26-007 - NASA White Sands Test Facility (WSTF) Quarterly Environmental Activity Report for Fourth Quarter 2025
Date:	Friday, January 16, 2026 1:10:18 PM
Attachments:	image001.png image003.png RE-26-007_NMED_QuarterlyEAReport_4Q25.pdf image004.png

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Ms. Sandoval,

Please find attached the NASA White Sands Test Facility (WSTF) Quarterly Environmental Activity Report for Fourth Quarter 2025.

If you have any questions or comments concerning this submittal, please contact Amanda Skarsgard at 575-524-5460, or at amanda.g.skarsgard@nasa.gov.

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