



H & A OF NEW YORK ENGINEERING
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TECHNICAL MEMORANDUM

May 6, 2026
File No. 0213836

TO: Remedial Bureau B, Section D
Division of Environmental Remediation
New York State Department of Environmental Conservation
625 Broadway, Floor 12
Albany, New York 12233
Corrective Action Section

Land and Redevelopment Programs Branch
Land, Chemicals & Redevelopment Division
U.S. Environmental Protection Agency Region 2
290 Broadway, 25th Floor
New York, New York 10007-1866

ATTENTION: Rafi Alam, Project Manager, NYSDEC
Anna Bachmann, Project Manager, USEPA

FROM: H & A of New York Engineering and Geology, LLP
Sarah A. Commisso, G.I.T., Project Manager
Suzanne M. Bell, P.E., Senior Associate

SUBJECT: Soil Reuse Findings Report Addendum 2
Former Port Mobil Terminal (243016)

On August 7, 2025, the Soil Reuse Characterization Plan for Site-Wide Remedy, dated July 21, 2025, and prepared by H & A of New York Engineering and Geology, LLP (Haley & Aldrich of New York), was approved by the New York State Department of Environmental Conservation (NYSDEC) and the United States Environmental Protection Agency (USEPA) for the sampling of overburden soil within the proposed in-situ solidification (ISS) and permeable reactive barrier (PRB) wall areas at the Former Port Mobil Terminal (also known as Kinder Morgan Staten Island [KM]) located at 4101 Arthur Kill Road in Staten Island, New York (the "Site"). A Project Locus is included as Figure 1, and a Site Map is included as Figure 2. This overburden soil material is proposed for on-Site reuse to support the future development and Site-wide remediation.

Sampling was conducted in accordance with the procedures described in NYSDEC Division of Environmental Remediation (DER)-10 Table 5.4(e) to meet the applicable NYSDEC Part 375 Commercial

Use Soil Cleanup Objectives (CUSCOs) and the April 2023 “Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS) Under NYSDEC’s Part 375 Remedial Programs” Guidance Values (the “PFAS Guidance Values”). This includes a sampling frequency of one sample for every 1,000 cubic yards of material as indicated in NYSDEC DER-10 Table 5.4 (e). Sampling was also conducted in accordance with the Soil Reuse Characterization Plan for Site-Wide Remedy dated July 21, 2025, and approved by NYSDEC and USEPA on August 7, 2025, included as Attachment A.

Sampling Methodology

On December 6, 2024, the draft Alternatives Analysis (AA) / Remedial Action Work Plan (RAWP) prepared by Haley & Aldrich of New York was submitted to the NYSDEC and USEPA. A revised draft was submitted on May 1, 2025; a second revised draft was submitted on January 30, 2026; and a third revised draft was submitted on March 20, 2026. These documents outlined the proposed remedial action for the Site, which includes ISS and a PRB wall as recommended remedial technologies. To prepare for and support future remedial and development work, Haley & Aldrich of New York proposed to conduct soil sampling activities within the proposed ISS and PRB wall areas to evaluate whether the overburden in the ISS areas and across the extent of the PRB wall can be reused to support future development and Site-wide remediation.

The Site, which is a former Major Oil Storage Facility (MOSF), contained former aboveground storage tanks (ASTs) within the proposed area of redevelopment. The ASTs are surrounded by berms, which were designed to contain potential releases when the ASTs were in use and to mitigate stormwater runoff. As many of the proposed ISS areas are in/beneath the areas of existing berms, the sampling and characterization of berm material were conducted separately in accordance with the Berm Sampling Work Plan, dated December 2024, and its Addendum, dated July 2025, both prepared by Haley & Aldrich of New York. Soil sampling of the berms above the ISS areas is included in the Berm Sampling for On-Site Reuse Summary Memos dated May 15, 2025, and November 12, 2025.

Reuse sampling of the overburden material in the PRB wall area was conducted from August 25 through August 29, 2025, and results are documented in the Soil Reuse Findings Report submitted to the NYSDEC and USEPA on March 13, 2025. ISS overburden soil sampling was conducted from October 7 through October 10, 2025, with the exception of grid areas ISS-21, ISS-22, ISS-23, and ISS-24, which were at the time inaccessible due to ongoing ISS pilot study work. These results are documented in the Soil Reuse Findings Report submitted to the NYSDEC and USEPA on November 14, 2025, and approved on March 13, 2026. Overburden reuse sampling from grid areas ISS-21, ISS-22, ISS-23, and ISS-24 was conducted at the Site on January 22, 2026, and results are documented in the Soil Reuse Findings Report Addendum submitted to NYSDEC and USEPA on February 19, 2026.

This Soil Reuse Findings Report Addendum 2 includes the sampling of overburden material in the AST04 ISS area, specifically the area in AST04 where ISS is proposed due to exceedances of the NYSDEC Part 375 Protection of Groundwater Soil Cleanup Objectives (PGWSCOs). Previously, only the overburden areas of AST04, where ISS is proposed due to the presence of light non-aqueous phase

liquid (LNAPL), were sampled for reuse and are documented in the Soil Reuse Findings Report dated March 13, 2026.

ISS Overburden Soil Sampling

The ISS overburden soil sampling was conducted in the AST04 ISS treatment area, specifically in the area of AST04 where ISS is proposed due to exceedances of the PGWSCO. The area will require overburden excavation to depths ranging from 5 to 7 feet (ft) below ground surface (bgs) and represents approximately 2,000 cubic yards of material. A Site Plan is included as Figure 2.

The AST04 PGWSCO overburden area was divided into four grid areas and one composite sample, and three to four discrete samples were collected from each grid. Sample locations are shown on Figure 3. A total of four composite samples and 14 discrete samples were collected to characterize the top 5 to 7 ft of overburden soils from grid areas AST04-ISS11 (0 to 5 ft bgs), AST04-ISS12 (0 to 6 ft bgs), AST04-ISS13 (0 to 6 ft bgs), and AST04-ISS14 (0 to 7 ft bgs).

Samples were collected by excavating test pits at each sampling location with a CAT® 336 excavator provided by ENTACT.

Composite soil samples were analyzed for the following parameters:

- Target Compound List (TCL) semi-volatile organic compounds (SVOCs);
- Target Analyte List (TAL) total metals;
- PCBs;
- Pesticides; and
- PFAS.

Discrete soil samples were analyzed for TCL volatile organic compounds (VOCs).

Sampled soils consisted of red-brown, fine to medium, poorly graded sand with some fine to medium, round to angular gravel. Soil was screened for visual and olfactory evidence using a photoionization detector (PID), and PID readings were 0.0 parts per million (ppm).

Results Summary

In accordance with the Soil Reuse Characterization Plan for Site-Wide Remedy, results were compared to the applicable NYSDEC Part 375 CUSCOs and the PFAS Guidance Values.

There are no exceedances of the CUSCOs and PFAS Guidance Values in the reuse samples collected from grid areas AST04-ISS11, AST04-ISS12, AST04-ISS13, and AST04-ISS14 from surface grade to between 5 and 7 ft bgs.

Analytical results are included in Table 1. The analytical laboratory report is included in Attachment B. The Data Usability Summary Report (DUSR) is included in Attachment C.

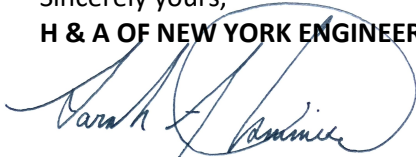
Conclusion

The analytical results from the overburden soil in the ISS area of AST04, including grids AST04-ISS11, AST04-ISS12, AST04-ISS13, and AST04-ISS14, do not exceed CUSCOs or PFAS Guidance Values. As such, Haley & Aldrich of New York is requesting that this sampled material be approved for reuse to support the Site-wide remediation and future redevelopment of the Site.

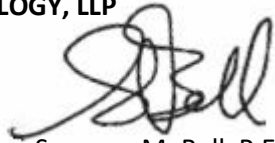
If you have any questions, please do not hesitate to contact the undersigned.

Sincerely yours,

H & A OF NEW YORK ENGINEERING AND GEOLOGY, LLP



Sarah A. Commisso, G.I.T.
Project Manager



Suzanne M. Bell, P.E.
Senior Associate

Enclosures:

- Table 1 – Summary of Soil Quality Data –AST04 ISS Overburden Grids 11 through 14
- Figure 1 – Project Locus
- Figure 2 – Site Plan
- Figure 3 –AST04 ISS Overburden Soil Reuse Sample Location Map - Grids 11 through 14
- Attachment A - Soil Reuse Characterization Plan for Site-Wide Remedy
- Attachment B - Analytical Laboratory Report
- Attachment C – Data Usability Summary Report

https://haleyaldrich.sharepoint.com/sites/NorthPointDevelopment/Shared Documents/0208988.FORMER PORT MOBIL TERMINAL/Deliverables/34. Soil Reuse Findings Report/Soil Reuse Findings Report Addendum 2/2026-0506_HANY_PortMobil_SoilReuseAdd.2_F.docx

TABLE

TABLE I
SUMMARY OF SOIL QUALITY DATA - AST04 ISS OVERBURDEN GRIDS 11 THROUGH 14
NORTHPOINT DEVELOPMENT
FORMER PORT MOBIL TERMINAL
STATEN ISLAND, NEW YORK

	Location Name	Commercial Use	AST04-ISS11_0-5	AST04-ISS11_A	AST04-ISS11_B	AST04-ISS11_C	AST04-ISS12_0-6	AST04-ISS12_A	AST04-ISS12_B	AST04-ISS12_C	AST04-ISS12_D	AST04-ISS13_0-6	AST04-ISS13_A	AST04-ISS13_B	AST04-ISS13_C	AST04-ISS14_0-7	AST04-ISS14_A	AST04-ISS14_B	AST04-ISS14_C	AST04-ISS14_D
	Sample Name	Soil Cleanup	AST04-ISS11_0-5	AST04-ISS11_A	AST04-ISS11_B	AST04-ISS11_C	AST04-ISS12_0-6	AST04-ISS12_A	AST04-ISS12_B	AST04-ISS12_C	AST04-ISS12_D	AST04-ISS13_0-6	AST04-ISS13_A	AST04-ISS13_B	AST04-ISS13_C	AST04-ISS14_0-7	AST04-ISS14_A	AST04-ISS14_B	AST04-ISS14_C	AST04-ISS14_D
	Sample Date	Objectives	04/14/2026	04/14/2026	04/14/2026	04/14/2026	04/14/2026	04/14/2026	04/14/2026	04/14/2026	04/14/2026	04/14/2026	04/14/2026	04/14/2026	04/14/2026	04/14/2026	04/14/2026	04/14/2026	04/14/2026	04/14/2026
	Lab Sample ID	2025	460-348810-15	460-348810-1	460-348810-2	460-348810-3	460-348810-16	460-348810-4	460-348810-5	460-348810-6	460-348810-7	460-348810-17	460-348810-8	460-348810-9	460-348810-10	460-348810-18	460-348810-11	460-348810-12	460-348810-13	460-348810-14
Volatile Organic Compounds (mg/kg)																				
1,1,1-Trichloroethane	500	-	-	ND (0.083)	ND (0.055)	ND (0.00071)	-	ND (0.0008)	ND (0.00075)	ND (0.00076)	ND (0.00074)	-	ND (0.00084)	ND (0.0007)	ND (0.0007)	-	ND (0.00089)	ND (0.00079)	ND (0.00076)	ND (0.00082)
1,1,2,2-Tetrachloroethane	NA	-	-	ND (0.083)	ND (0.055)	ND (0.00071)	-	ND (0.0008)	ND (0.00075)	ND (0.00076)	ND (0.00074)	-	ND (0.00084)	ND (0.0007)	ND (0.0007)	-	ND (0.00089)	ND (0.00079)	ND (0.00076)	ND (0.00082)
1,1,2-Trichloroethane	NA	-	-	ND (0.083)	ND (0.055)	ND (0.00071)	-	ND (0.0008)	ND (0.00075)	ND (0.00076)	ND (0.00074)	-	ND (0.00084)	ND (0.0007)	ND (0.0007)	-	ND (0.00089)	ND (0.00079)	ND (0.00076)	ND (0.00082)
1,1-Dichloroethane	240	-	-	ND (0.083)	ND (0.055)	ND (0.00071)	-	ND (0.0008)	ND (0.00075)	ND (0.00076)	ND (0.00074)	-	ND (0.00084)	ND (0.0007)	ND (0.0007)	-	ND (0.00089)	ND (0.00079)	ND (0.00076)	ND (0.00082)
1,1-Dichloroethene	5.1	-	-	ND (0.083)	ND (0.055)	ND (0.00071)	-	ND (0.0008)	ND (0.00075)	ND (0.00076)	ND (0.00074)	-	ND (0.00084)	ND (0.0007)	ND (0.0007)	-	ND (0.00089)	ND (0.00079)	ND (0.00076)	ND (0.00082)
1,2,3-Trichlorobenzene	NA	-	-	ND (0.083)	ND (0.055)	ND (0.00071)	-	ND (0.0008)	ND (0.00075)	ND (0.00076)	ND (0.00074)	-	ND (0.00084)	ND (0.0007)	ND (0.0007)	-	ND (0.00089)	ND (0.00079)	ND (0.00076)	ND (0.00082)
1,2,4-Trichlorobenzene	NA	-	-	ND (0.083)	ND (0.055)	ND (0.00071)	-	ND (0.0008)	ND (0.00075)	ND (0.00076)	ND (0.00074)	-	ND (0.00084)	ND (0.0007)	ND (0.0007)	-	ND (0.00089)	ND (0.00079)	ND (0.00076)	ND (0.00082)
1,2,4-Trimethylbenzene	500	-	-	0.057 J	ND (0.055)	ND (0.00071)	-	ND (0.0008)	ND (0.00075)	ND (0.00076)	ND (0.00074)	-	ND (0.00084)	0.01	0.0016	-	ND (0.00089)	0.0013	ND (0.00076)	ND (0.00082)
1,2-Dibromo-3-chloropropane (DBCP)	NA	-	-	ND (0.083)	ND (0.055)	ND (0.00071)	-	ND (0.0008)	ND (0.00075)	ND (0.00076)	ND (0.00074)	-	ND (0.00084)	ND (0.0007)	ND (0.0007)	-	ND (0.00089)	ND (0.00079)	ND (0.00076)	ND (0.00082)
1,2-Dibromoethane (Ethylene Dibromide)	NA	-	-	ND (0.083)	ND (0.055)	ND (0.00071)	-	ND (0.0008)	ND (0.00075)	ND (0.00076)	ND (0.00074)	-	ND (0.00084)	ND (0.0007)	ND (0.0007)	-	ND (0.00089)	ND (0.00079)	ND (0.00076)	ND (0.00082)
1,2-Dichlorobenzene	500	-	-	ND (0.083)	ND (0.055)	ND (0.00071)	-	ND (0.0008)	ND (0.00075)	ND (0.00076)	ND (0.00074)	-	ND (0.00084)	ND (0.0007)	ND (0.0007)	-	ND (0.00089)	ND (0.00079)	ND (0.00076)	ND (0.00082)
1,2-Dichloroethane	30	-	-	ND (0.083)	ND (0.055)	ND (0.00071)	-	ND (0.0008)	ND (0.00075)	ND (0.00076)	ND (0.00074)	-	ND (0.00084)	ND (0.0007)	ND (0.0007)	-	ND (0.00089)	ND (0.00079)	ND (0.00076)	ND (0.00082)
1,2-Dichloropropane	NA	-	-	ND (0.083)	ND (0.055)	ND (0.00071)	-	ND (0.0008)	ND (0.00075)	ND (0.00076)	ND (0.00074)	-	ND (0.00084)	ND (0.0007)	ND (0.0007)	-	ND (0.00089)	ND (0.00079)	ND (0.00076)	ND (0.00082)
1,3,5-Trimethylbenzene	500	-	-	ND (0.083)	ND (0.055)	ND (0.00071)	-	ND (0.0008)	ND (0.00075)	ND (0.00076)	ND (0.00074)	-	ND (0.00084)	0.0035	0.00084	-	ND (0.00089)	0.0017	ND (0.00076)	ND (0.00082)
1,3-Dichlorobenzene	280	-	-	ND (0.083)	ND (0.055)	ND (0.00071)	-	ND (0.0008)	ND (0.00075)	ND (0.00076)	ND (0.00074)	-	ND (0.00084)	ND (0.0007)	ND (0.0007)	-	ND (0.00089)	ND (0.00079)	ND (0.00076)	ND (0.00082)
1,4-Dichlorobenzene	130	-	-	ND (0.083)	ND (0.055)	ND (0.00071)	-	ND (0.0008)	ND (0.00075)	ND (0.00076)	ND (0.00074)	-	ND (0.00084)	ND (0.0007)	ND (0.0007)	-	ND (0.00089)	ND (0.00079)	ND (0.00076)	ND (0.00082)
2-Butanone (Methyl Ethyl Ketone)	500	-	-	ND (0.42)	ND (0.27)	0.0021 J	-	ND (0.004)	0.012	0.0062	ND (0.0037)	-	0.0046	0.0039	0.0068	-	0.0083	0.0033 J	0.0027 J	0.0031 J
2-Hexanone (Methyl Butyl Ketone)	NA	-	-	ND (0.42)	ND (0.27)	ND (0.0036)	-	ND (0.004)	ND (0.0037)	ND (0.0038)	ND (0.0037)	-	ND (0.0042)	ND (0.0035)	ND (0.0035)	-	ND (0.0045)	ND (0.0039)	ND (0.0038)	ND (0.0041)
2-Phenylbutane (sec-Butylbenzene)	500	-	-	0.62	0.73	ND (0.00071)	-	ND (0.0008)	ND (0.00075)	ND (0.00076)	ND (0.00074)	-	ND (0.00084)	ND (0.0007)	0.00052 J	-	ND (0.00089)	0.0011	0.0004 J	ND (0.00082)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	NA	-	-	ND (0.42)	ND (0.27)	ND (0.0036)	-	ND (0.004)	ND (0.0037)	ND (0.0038)	ND (0.0037)	-	ND (0.0042)	ND (0.0035)	ND (0.0035)	-	ND (0.0045)	ND (0.0039)	ND (0.0038)	ND (0.0041)
Acetone	500	-	-	ND (0.42)	ND (0.27)	0.012	-	0.011	0.13	0.051	0.012	-	0.028	0.032	0.024	-	0.011	0.015	0.0099	0.025
Benzene	20	-	-	0.26	ND (0.055)	ND (0.00071)	-	ND (0.0008)	ND (0.00075)	ND (0.00076)	ND (0.00074)	-	ND (0.00084)	ND (0.0007)	0.04	-	0.00079 J	0.061	0.018	ND (0.00082)
Bromodichloromethane	NA	-	-	ND (0.083)	ND (0.055)	ND (0.00071)	-	ND (0.0008)	ND (0.00075)	ND (0.00076)	ND (0.00074)	-	ND (0.00084)	ND (0.0007)	ND (0.0007)	-	ND (0.00089)	ND (0.00079)	ND (0.00076)	ND (0.00082)
Bromoform	NA	-	-	ND (0.083)	ND (0.055)	ND (0.00071)	-	ND (0.0008)	ND (0.00075)	ND (0.00076)	ND (0.00074)	-	ND (0.00084)	ND (0.0007)	ND (0.0007)	-	ND (0.00089)	ND (0.00079)	ND (0.00076)	ND (0.00082)
Bromomethane (Methyl Bromide)	NA	-	-	ND (0.083)	ND (0.055)	ND (0.0014)	-	ND (0.0016)	ND (0.0015)	ND (0.0015)	ND (0.0015)	-	ND (0.0017)	ND (0.0014)	ND (0.0014)	-	ND (0.0018)	ND (0.0016)	ND (0.0015)	ND (0.0016)
Carbon disulfide	NA	-	-	ND (0.083)	ND (0.055)	0.00063 J	-	ND (0.0008)	0.0011	0.0016	ND (0.00074)	-	0.0012	0.00085	ND (0.0007)	-	ND (0.00089)	ND (0.00079)	ND (0.00076)	ND (0.00082)
Carbon tetrachloride	41	-	-	ND (0.083)	ND (0.055)	ND (0.00071)	-	ND (0.0008)	ND (0.00075)	ND (0.00076)	ND (0.00074)	-	ND (0.00084)	ND (0.0007)	ND (0.0007)	-	ND (0.00089)	ND (0.00079)	ND (0.00076)	ND (0.00082)
Chlorobenzene	500	-	-	ND (0.083)	ND (0.055)	ND (0.00071)	-	ND (0.0008)	ND (0.00075)	ND (0.00076)	ND (0.00074)	-	ND (0.00084)	ND (0.0007)	ND (0.0007)	-	ND (0.00089)	ND (0.00079)	ND (0.00076)	ND (0.00082)
Chlorobromomethane	NA	-	-	ND (0.083)	ND (0.055)	ND (0.00071)	-	ND (0.0008)	ND (0.00075)	ND (0.00076)	ND (0.00074)	-	ND (0.00084)	ND (0.0007)	ND (0.0007)	-	ND (0.00089)	ND (0.00079)	ND (0.00076)	ND (0.00082)
Chloroethane	NA	-	-	ND (0.083)	ND (0.055)	ND (0.00071)	-	ND (0.0008)	ND (0.00075)	ND (0.00076)	ND (0.00074)	-	ND (0.00084)	ND (0.0007)	ND (0.0007)	-	ND (0.00089)	ND (0.00079)	ND (0.00076)	ND (0.00082)
Chloroform (Trichloromethane)	180	-	-	ND (0.083)	ND (0.055)	ND (0.00071)	-	ND (0.0008)	ND (0.00075)	ND (0.00076)	ND (0.00074)	-	ND (0.00084)	ND (0.0007)	ND (0.0007)	-	ND (0.00089)	ND (0.00079)	ND (0.00076)	ND (0.00082)
Chloromethane (Methyl Chloride)	NA	-	-	ND (0.083)	ND (0.055)	ND (0.00071)	-	ND (0.0008)	ND (0.00075)	ND (0.00076)	ND (0.00074)	-	ND (0.00084)	ND (0.0007)	ND (0.0007)	-	ND (0.00089)	ND (0.00079)	ND (0.00076)	ND (0.00082

TABLE I
SUMMARY OF SOIL QUALITY DATA - AST04 ISS OVERBURDEN GRIDS 11 THROUGH 14
NORTHPOINT DEVELOPMENT
FORMER PORT MOBIL TERMINAL
STATEN ISLAND, NEW YORK

	Location Name	Commercial Use	AST04-ISS11_0-5	AST04-ISS11_A	AST04-ISS11_B	AST04-ISS11_C	AST04-ISS12_0-6	AST04-ISS12_A	AST04-ISS12_B	AST04-ISS12_C	AST04-ISS12_D	AST04-ISS13_0-6	AST04-ISS13_A	AST04-ISS13_B	AST04-ISS13_C	AST04-ISS14_0-7	AST04-ISS14_A	AST04-ISS14_B	AST04-ISS14_C	AST04-ISS14_D
	Sample Name	Soil Cleanup	AST04-ISS11_0-5	AST04-ISS11_A	AST04-ISS11_B	AST04-ISS11_C	AST04-ISS12_0-6	AST04-ISS12_A	AST04-ISS12_B	AST04-ISS12_C	AST04-ISS12_D	AST04-ISS13_0-6	AST04-ISS13_A	AST04-ISS13_B	AST04-ISS13_C	AST04-ISS14_0-7	AST04-ISS14_A	AST04-ISS14_B	AST04-ISS14_C	AST04-ISS14_D
	Sample Date	Objectives	04/14/2026	04/14/2026	04/14/2026	04/14/2026	04/14/2026	04/14/2026	04/14/2026	04/14/2026	04/14/2026	04/14/2026	04/14/2026	04/14/2026	04/14/2026	04/14/2026	04/14/2026	04/14/2026	04/14/2026	04/14/2026
	Lab Sample ID	2025	460-348810-15	460-348810-1	460-348810-2	460-348810-3	460-348810-16	460-348810-4	460-348810-5	460-348810-6	460-348810-7	460-348810-17	460-348810-8	460-348810-9	460-348810-10	460-348810-18	460-348810-11	460-348810-12	460-348810-13	460-348810-14
Semi-Volatile Organic Compounds (mg/kg)																				
1,2,4,5-Tetrachlorobenzene	NA	ND (0.39)	-	-	-	-	ND (0.4)	-	-	-	-	ND (0.38)	-	-	-	ND (0.36)	-	-	-	-
1,4-Dioxane	36	ND (0.039)	-	-	-	-	ND (0.04)	-	-	-	-	ND (0.038)	-	-	-	ND (0.036)	-	-	-	-
2,2'-oxybis(1-Chloropropane)	NA	ND (0.39)	-	-	-	-	ND (0.4)	-	-	-	-	ND (0.38)	-	-	-	ND (0.36)	-	-	-	-
2,3,4,6-Tetrachlorophenol	NA	ND (0.39)	-	-	-	-	ND (0.4)	-	-	-	-	ND (0.38)	-	-	-	ND (0.36)	-	-	-	-
2,4,5-Trichlorophenol	NA	ND (0.39)	-	-	-	-	ND (0.4)	-	-	-	-	ND (0.38)	-	-	-	ND (0.36)	-	-	-	-
2,4,6-Trichlorophenol	NA	ND (0.16)	-	-	-	-	ND (0.16)	-	-	-	-	ND (0.15)	-	-	-	ND (0.14)	-	-	-	-
2,4-Dichlorophenol	NA	ND (0.16)	-	-	-	-	ND (0.16)	-	-	-	-	ND (0.15)	-	-	-	ND (0.14)	-	-	-	-
2,4-Dimethylphenol	NA	ND (0.39)	-	-	-	-	ND (0.4)	-	-	-	-	ND (0.38)	-	-	-	ND (0.36)	-	-	-	-
2,4-Dinitrophenol	NA	ND (0.31)	-	-	-	-	ND (0.32)	-	-	-	-	ND (0.31)	-	-	-	ND (0.29)	-	-	-	-
2,4-Dinitrotoluene	NA	ND (0.079)	-	-	-	-	ND (0.082)	-	-	-	-	ND (0.077)	-	-	-	ND (0.072)	-	-	-	-
2,6-Dinitrotoluene	NA	ND (0.079)	-	-	-	-	ND (0.082)	-	-	-	-	ND (0.077)	-	-	-	ND (0.072)	-	-	-	-
2-Chloronaphthalene	NA	ND (0.39)	-	-	-	-	ND (0.4)	-	-	-	-	ND (0.38)	-	-	-	ND (0.36)	-	-	-	-
2-Chlorophenol	NA	ND (0.39)	-	-	-	-	ND (0.4)	-	-	-	-	ND (0.38)	-	-	-	ND (0.36)	-	-	-	-
2-Methylnaphthalene	NA	ND (0.39)	-	-	-	-	ND (0.4)	-	-	-	-	ND (0.38)	-	-	-	ND (0.36)	-	-	-	-
2-Methylphenol (o-Cresol)	500	ND (0.24)	-	-	-	-	ND (0.24)	-	-	-	-	ND (0.23)	-	-	-	ND (0.22)	-	-	-	-
2-Nitroaniline	NA	ND (0.39)	-	-	-	-	ND (0.4)	-	-	-	-	ND (0.38)	-	-	-	ND (0.36)	-	-	-	-
2-Nitrophenol	NA	ND (0.39)	-	-	-	-	ND (0.4)	-	-	-	-	ND (0.38)	-	-	-	ND (0.36)	-	-	-	-
3&4-Methylphenol	NA	ND (0.24)	-	-	-	-	ND (0.24)	-	-	-	-	ND (0.23)	-	-	-	ND (0.22)	-	-	-	-
3,3'-Dichlorobenzidine	NA	ND (0.16)	-	-	-	-	ND (0.16)	-	-	-	-	ND (0.15)	-	-	-	ND (0.14)	-	-	-	-
3-Nitroaniline	NA	ND (0.39)	-	-	-	-	ND (0.4)	-	-	-	-	ND (0.38)	-	-	-	ND (0.36)	-	-	-	-
4,6-Dinitro-2-methylphenol	NA	ND (0.31)	-	-	-	-	ND (0.32)	-	-	-	-	ND (0.31)	-	-	-	ND (0.29)	-	-	-	-
4-Bromophenyl phenyl ether (BDE-3)	NA	ND (0.39)	-	-	-	-	ND (0.4)	-	-	-	-	ND (0.38)	-	-	-	ND (0.36)	-	-	-	-
4-Chloro-3-methylphenol	NA	ND (0.39)	-	-	-	-	ND (0.4)	-	-	-	-	ND (0.38)	-	-	-	ND (0.36)	-	-	-	-
4-Chloroaniline	NA	ND (0.39)	-	-	-	-	ND (0.4)	-	-	-	-	ND (0.38)	-	-	-	ND (0.36)	-	-	-	-
4-Chlorophenyl phenyl ether	NA	ND (0.39)	-	-	-	-	ND (0.4)	-	-	-	-	ND (0.38)	-	-	-	ND (0.36)	-	-	-	-
4-Methylphenol (p-Cresol)	500	ND (0.39)	-	-	-	-	ND (0.4)	-	-	-	-	ND (0.38)	-	-	-	ND (0.36)	-	-	-	-
4-Nitroaniline	NA	ND (0.39)	-	-	-	-	ND (0.4)	-	-	-	-	ND (0.38)	-	-	-	ND (0.36)	-	-	-	-
4-Nitrophenol	NA	ND (0.79)	-	-	-	-	ND (0.82)	-	-	-	-	ND (0.77)	-	-	-	ND (0.72)	-	-	-	-
Acenaphthene	500	ND (0.39)	-	-	-	-	ND (0.4)	-	-	-	-	ND (0.38)	-	-	-	ND (0.36)	-	-	-	-
Acenaphthylene	500	ND (0.39)	-	-	-	-	ND (0.4)	-	-	-	-	ND (0.38)	-	-	-	ND (0.36)	-	-	-	-
Acetophenone	NA	ND (0.39)	-	-	-	-	ND (0.4)	-	-	-	-	ND (0.38)	-	-	-	ND (0.36)	-	-	-	-
Anthracene	500	ND (0.39)	-	-	-	-	ND (0.4)	-	-	-	-	ND (0.38)	-	-	-	ND (0.36)	-	-	-	-
Atrazine	NA	ND (0.16)	-	-	-	-	ND (0.16)	-	-	-	-	ND (0.15)	-	-	-	ND (0.14)	-	-	-	-
Benzaldehyde	NA	ND (0.39)	-	-	-	-	ND (0.4)	-	-	-	-	ND (0.38)	-	-	-	ND (0.36)	-	-	-	-
Benzo(a)anthracene	37	ND (0.039)	-	-	-	-	ND (0.04)	-	-	-	-	ND (0.038)	-	-	-	ND (0.036)	-	-	-	-
Benzo(a)pyrene	3.7	ND (0.039)	-	-	-	-	ND (0.04)	-	-	-	-	ND (0.038)	-	-	-	ND (0.036)	-	-	-	-
Benzo(b)fluoranthene	37	ND (0.039)	-	-	-	-	ND (0.04)	-	-	-	-	ND (0.038)	-	-	-	ND (0.036)	-	-	-	-
Benzo(g,h,i)perylene	47	ND (0.39)	-	-	-	-	ND (0.4)	-	-	-	-	ND (0.38)	-	-	-	ND (0.36)	-	-	-	-
Benzo(k)fluoranthene	47	ND (0.039)	-	-	-	-	ND (0.04)	-	-	-	-	ND (0.038)	-	-	-	ND (0.036)	-	-	-	-
Biphenyl	NA	ND (0.39)	-	-	-	-	ND (0.4)	-	-	-	-	ND (0.38)	-	-	-	ND (0.36)	-	-	-	-
bis(2-Chloroethoxy)methane	NA	ND (0.39)	-	-	-	-	ND (0.4)	-	-	-	-	ND (0.38)	-	-	-	ND (0.36)	-	-	-	-
bis(2-Chloroethyl)ether	NA	ND (0.039)	-	-	-	-	ND (0.04)	-	-	-	-	ND (0.038)	-	-	-	ND (0.036)	-	-	-	-
bis(2-Ethylhexyl)phthalate	NA	ND (0.39)	-	-	-	-	ND (0.4)	-	-	-	-	ND (0.38)	-	-	-	ND (0.36)	-	-	-	-
Butyl benzylphthalate (BBP)	NA	ND (0.39)	-	-	-	-	ND (0.4)	-	-	-	-	ND (0.38)	-	-	-	ND (0.36)	-	-	-	-
Caprolactam	NA	ND (0.39)	-	-	-	-	ND (0.4)	-	-	-	-	ND (0.38)	-	-	-	ND (0.36)	-	-	-	-
Carbazole	NA	ND (0.39)	-	-	-	-	ND (0.4)	-	-	-	-	ND (0.38)	-	-	-	ND (0.36)	-	-	-	-
Chrysene	47	ND (0.39)	-	-	-	-	ND (0.4)	-	-	-	-	ND (0.38)	-	-	-	ND (0.36)	-	-	-	-
Dibenz(a,h)anthracene	3.7	ND (0.039)	-	-	-	-	ND (0.04)	-	-	-	-	ND (0.038)	-	-	-	ND (0.036)	-	-	-	-
Dibenzofuran	180	ND (0.39)	-	-	-	-	ND (0.4)	-	-	-	-	ND (0.38)	-	-	-	ND (0.36)	-	-	-	-
Diethyl phthalate	NA	ND (0.39)	-	-	-	-	ND (0.4)	-	-	-	-	ND (0.38)	-	-	-	ND (0.36)	-	-	-	-
Dimethyl phthalate	NA	ND (0.39)	-	-	-	-	ND (0.4)	-	-	-	-	ND (0.38)	-	-	-	ND (0.36)	-	-	-	-
Di-n-butylphthalate (DBP)	NA	ND (0.39)	-	-	-	-	ND (0.4)	-	-	-	-	ND (0.38)	-	-	-	ND (0.36)	-	-	-	-
Di-n-octyl phthalate (DnOP)	NA	ND (0.39)	-	-	-	-	ND (0.4)	-	-	-	-	ND (0.38)	-	-	-	ND (0.36)	-	-	-	-
Fluoranthene	500	ND (0.39)	-	-	-	-	ND (0.4)	-	-	-	-	ND (0.38)	-	-	-	ND (0.36)	-	-	-	-
Fluorene	500	ND (0.39)	-	-	-	-	ND (0.4)	-	-	-	-	ND (0.38)	-	-	-	ND (0.36)	-	-	-	-
Hexachlorobenzene	1.8	ND (0.039)	-	-	-	-	ND (0.04)	-	-	-	-	ND (0.038)	-	-	-	ND (0.036)	-	-	-	-
Hexachlorobutadiene	NA	ND (0.079)	-	-	-	-	ND (0.082)	-	-	-	-	ND (0.077)	-	-	-	ND (0.072)	-	-	-	-
Hexachlorocyclopentadiene	NA	ND (0.39)	-	-	-	-	ND (0.4)	-	-	-	-	ND (0.38)	-	-	-	ND (0.36)	-	-	-	-
Hexachloroethane	NA	ND (0.039)	-	-	-	-	ND (0.04)	-	-	-	-	ND (0.038)	-	-	-	ND (0.036)	-	-	-	-
Indeno(1,2,3-cd)pyrene	37	ND (0.039)	-	-	-	-	ND (0.04)	-	-	-	-	ND (0.038)	-	-	-	ND (0.036)	-	-	-	-
Isophorone	NA	ND (0.16)	-	-	-	-	ND (0.16)	-	-	-	-	ND (0.15)	-	-	-	ND (0.14)	-	-	-	-
Naphthalene	500	ND (0.39)	-	-	-	-	ND (0.4)	-	-	-	-	ND (0.38)	-	-	-	ND (0.36)	-	-	-	-
Nitrobenzene	8.9	ND (0.039)	-	-	-	-	ND (0.04)	-	-	-	-	ND (0.038)	-	-	-	ND (0.036)	-	-	-	-
N-Nitrosodi-n-propylamine	NA	ND (0.039)	-	-	-	-	ND (0.04)	-	-	-	-	ND (0.038)	-	-	-	ND (0.036)	-	-	-	-
N-Nitrosodiphenylamine	NA	ND (0.39)	-	-	-	-	ND (0.4)	-	-	-	-	ND (0.38)	-	-	-	ND (0.36)	-	-	-	-
Pentachlorophenol	6.9	ND (0.31)	-	-	-	-	ND (0.32)	-	-	-	-	ND (0.31)	-	-	-	ND (0.29)	-	-	-	-
Phenanthrene	47	0.027 J	-	-	-	-	ND (0.4)	-	-	-	-	ND (0.38)	-	-	-	0.027 J	-	-	-	-
Phenol	500	ND (0.24)	-	-	-	-	ND (0.24)	-	-	-	-	ND (0.23)	-	-	-	ND (0.22)	-	-	-	-
Pyrene	500	ND (0.39)	-	-	-	-	ND (0.4)	-	-	-	-	ND (0.38)	-	-	-	ND (0.36)	-	-	-	-

TABLE I
SUMMARY OF SOIL QUALITY DATA - AST04 ISS OVERBURDEN GRIDS 11 THROUGH 14
NORTHPOINT DEVELOPMENT
FORMER PORT MOBIL TERMINAL
STATEN ISLAND, NEW YORK

	Location Name Sample Name Sample Date Lab Sample ID	Commercial Use Soil Cleanup Objectives 2025	AST04-ISS11_0-5 AST04-ISS11_0-5 04/14/2026 460-348810-15	AST04-ISS11_A AST04-ISS11_A 04/14/2026 460-348810-1	AST04-ISS11_B AST04-ISS11_B 04/14/2026 460-348810-2	AST04-ISS11_C AST04-ISS11_C 04/14/2026 460-348810-3	AST04-ISS12_0-6 AST04-ISS12_0-6 04/14/2026 460-348810-16	AST04-ISS12_A AST04-ISS12_A 04/14/2026 460-348810-4	AST04-ISS12_B AST04-ISS12_B 04/14/2026 460-348810-5	AST04-ISS12_C AST04-ISS12_C 04/14/2026 460-348810-6	AST04-ISS12_D AST04-ISS12_D 04/14/2026 460-348810-7	AST04-ISS13_0-6 AST04-ISS13_0-6 04/14/2026 460-348810-17	AST04-ISS13_A AST04-ISS13_A 04/14/2026 460-348810-8	AST04-ISS13_B AST04-ISS13_B 04/14/2026 460-348810-9	AST04-ISS13_C AST04-ISS13_C 04/14/2026 460-348810-10	AST04-ISS14_0-7 AST04-ISS14_0-7 04/14/2026 460-348810-18	AST04-ISS14_A AST04-ISS14_A 04/14/2026 460-348810-11	AST04-ISS14_B AST04-ISS14_B 04/14/2026 460-348810-12	AST04-ISS14_C AST04-ISS14_C 04/14/2026 460-348810-13	AST04-ISS14_D AST04-ISS14_D 04/14/2026 460-348810-14
PFAS (mg/kg)																				
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	NA	NA	ND (0.00019)	-	-	-	ND (0.0002)	-	-	-	-	ND (0.00019)	-	-	-	ND (0.00019)	-	-	-	-
2H,2H,3H,3H-Perfluorooctanoic acid (5:3 FTCA)	NA	NA	ND (0.00097)	-	-	-	ND (0.001)	-	-	-	-	ND (0.00096)	-	-	-	ND (0.00096)	-	-	-	-
3-(Perfluoroheptyl)propanoic acid (7:3 FTCA)	NA	NA	ND (0.00097)	-	-	-	ND (0.001)	-	-	-	-	ND (0.00096)	-	-	-	ND (0.00096)	-	-	-	-
3:3 Fluorotelomer carboxylic acid (3:3 FTCA)	NA	NA	ND (0.00039)	-	-	-	ND (0.0004)	-	-	-	-	ND (0.00038)	-	-	-	ND (0.00038)	-	-	-	-
4,8-Dioxa-3H-Perfluorononanoic Acid (ADONA)	NA	NA	ND (0.00019)	-	-	-	ND (0.0002)	-	-	-	-	ND (0.00019)	-	-	-	ND (0.00019)	-	-	-	-
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	NA	NA	ND (0.00039)	-	-	-	ND (0.0004) J	-	-	-	-	ND (0.00038) J	-	-	-	ND (0.00038)	-	-	-	-
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	NA	NA	ND (0.00039)	-	-	-	ND (0.0004)	-	-	-	-	ND (0.00038)	-	-	-	ND (0.00038)	-	-	-	-
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	NA	NA	ND (0.00039) J	-	-	-	ND (0.0004) J	-	-	-	-	ND (0.00038)	-	-	-	ND (0.00038)	-	-	-	-
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	NA	NA	ND (0.00019)	-	-	-	ND (0.0002)	-	-	-	-	ND (0.00019)	-	-	-	ND (0.00019)	-	-	-	-
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NetFOSAA)	NA	NA	ND (0.00019)	-	-	-	ND (0.0002)	-	-	-	-	ND (0.00019)	-	-	-	ND (0.00019)	-	-	-	-
N-Ethylperfluorooctane sulfonamide (N-EtFOSA)	NA	NA	ND (0.00019)	-	-	-	ND (0.0002)	-	-	-	-	ND (0.00019)	-	-	-	ND (0.00019)	-	-	-	-
N-Ethylperfluorooctane sulfonamidoethanol (N-EtFOSE)	NA	NA	ND (0.00097)	-	-	-	ND (0.001) J	-	-	-	-	ND (0.00096) J	-	-	-	ND (0.00096)	-	-	-	-
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	NA	NA	ND (0.00019)	-	-	-	ND (0.0002)	-	-	-	-	ND (0.00019)	-	-	-	ND (0.00019)	-	-	-	-
N-Methylperfluorooctane sulfonamide (N-MeFOSA)	NA	NA	ND (0.00019)	-	-	-	ND (0.0002)	-	-	-	-	ND (0.00019)	-	-	-	ND (0.00019)	-	-	-	-
N-Methylperfluorooctane sulfonamidoethanol (N-MeFOSE)	NA	NA	ND (0.00097)	-	-	-	ND (0.001) J	-	-	-	-	ND (0.00096) J	-	-	-	ND (0.00096)	-	-	-	-
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	NA	NA	ND (0.00019)	-	-	-	ND (0.0002)	-	-	-	-	ND (0.00019)	-	-	-	ND (0.00019)	-	-	-	-
Perfluoro(2-ethoxyethane) sulphonic acid (PFEESA)	NA	NA	ND (0.00019)	-	-	-	ND (0.0002)	-	-	-	-	ND (0.00019)	-	-	-	ND (0.00019)	-	-	-	-
Perfluoro(4-methoxybutanoic) acid (PFMBA)	NA	NA	ND (0.00019)	-	-	-	ND (0.0002)	-	-	-	-	ND (0.00019)	-	-	-	ND (0.00019)	-	-	-	-
Perfluoro-2-propoxypropanoic acid (PFPrOPrA)(GenX) (HFPO-DA)	NA	NA	ND (0.00019)	-	-	-	ND (0.0002)	-	-	-	-	ND (0.00019)	-	-	-	ND (0.00019)	-	-	-	-
Perfluoro-3-methoxypropanoic acid (PFMPA)	NA	NA	ND (0.00019)	-	-	-	ND (0.0002)	-	-	-	-	ND (0.00019)	-	-	-	ND (0.00019)	-	-	-	-
Perfluorobutanesulfonic acid (PFBS)	NA	NA	ND (0.00019)	-	-	-	ND (0.0002)	-	-	-	-	ND (0.00019)	-	-	-	ND (0.00019)	-	-	-	-
Perfluorobutanoic acid (PFBA)	NA	NA	ND (0.00039)	-	-	-	ND (0.0004)	-	-	-	-	ND (0.00038)	-	-	-	ND (0.00038)	-	-	-	-
Perfluorodecanesulfonic acid (PFDS)	NA	NA	ND (0.00019)	-	-	-	ND (0.0002)	-	-	-	-	ND (0.00019)	-	-	-	ND (0.00019)	-	-	-	-
Perfluorodecanoic acid (PFDA)	NA	NA	ND (0.00019)	-	-	-	ND (0.0002)	-	-	-	-	ND (0.00019)	-	-	-	ND (0.00019)	-	-	-	-
Perfluorododecane sulfonic acid (PFDoDS)	NA	NA	ND (0.00019)	-	-	-	ND (0.0002)	-	-	-	-	ND (0.00019)	-	-	-	ND (0.00019)	-	-	-	-
Perfluorododecanoic acid (PFDoDA)	NA	NA	ND (0.00019)	-	-	-	ND (0.0002)	-	-	-	-	ND (0.00019)	-	-	-	ND (0.00019)	-	-	-	-
Perfluoroheptanesulfonic acid (PFHps)	NA	NA	ND (0.00019)	-	-	-	ND (0.0002)	-	-	-	-	ND (0.00019)	-	-	-	ND (0.00019)	-	-	-	-
Perfluoroheptanoic acid (PFHpA)	NA	NA	ND (0.00019)	-	-	-	ND (0.0002)	-	-	-	-	ND (0.00019)	-	-	-	ND (0.00019)	-	-	-	-
Perfluorohexanesulfonic acid (PFHxS)	NA	NA	ND (0.00019)	-	-	-	ND (0.0002)	-	-	-	-	ND (0.00019)	-	-	-	ND (0.00019)	-	-	-	-
Perfluorohexanoic acid (PFHxA)	NA	NA	ND (0.00019)	-	-	-	ND (0.0002)	-	-	-	-	ND (0.00019)	-	-	-	ND (0.00019)	-	-	-	-
Perfluorononane sulfonic acid (PFNS)	NA	NA	ND (0.00019)	-	-	-	ND (0.0002)	-	-	-	-	ND (0.00019)	-	-	-	ND (0.00019)	-	-	-	-
Perfluorononanoic acid (PFNA)	NA	NA	0.00011 J	-	-	-	0.00046	-	-	-	-	0.00014 J	-	-	-	0.0102	-	-	-	-
Perfluorooctane sulfonamide (PFOSA)	NA	NA	ND (0.00019)	-	-	-	ND (0.0002)	-	-	-	-	ND (0.00019)	-	-	-	ND (0.00019)	-	-	-	-
Perfluorooctanesulfonic acid (PFOS)	0.44	NA	ND (0.00019)	-	-	-	ND (0.0002)	-	-	-	-	ND (0.00019)	-	-	-	ND (0.00019)	-	-	-	-
Perfluorooctanoic acid (PFOA)	0.5	NA	ND (0.00019)	-	-	-	0.000064 J	-	-	-	-	0.000064 J	-	-	-	ND (0.00019)	-	-	-	-
Perfluoropentanesulfonic acid (PFPeS)	NA	NA	ND (0.00019)	-	-	-	ND (0.0002)	-	-	-	-	ND (0.00019)	-	-	-	ND (0.00019)	-	-	-	-
Perfluoropentanoic acid (PFPeA)	NA	NA	ND (0.00019)	-	-	-	ND (0.0002)	-	-	-	-	ND (0.00019)	-	-	-	ND (0.00019)	-	-	-	-
Perfluorotetradecanoic acid (PFTeDA)	NA	NA	ND (0.00019)	-	-	-	ND (0.0002)	-	-	-	-	ND (0.00019)	-	-	-	ND (0.00019)	-	-	-	-
Perfluorotridecanoic acid (PFTrDA)	NA	NA	0.0005	-	-	-	ND (0.0002)	-	-	-	-	0.00194	-	-	-	ND (0.00019)	-	-	-	-
Perfluoroundecanoic acid (PFUnDA)	NA	NA	0.00099	-	-	-	0.00109	-	-	-	-	0.00056	-	-	-	0.00151	-	-	-	-
Pesticides (mg/kg)																				
4,4'-DDD	33	NA	ND (0.0024)	-	-	-	ND (0.0024)	-	-	-	-	ND (0.0023)	-	-	-	ND (0.0022)	-	-	-	-
4,4'-DDE	22	NA	ND (0.0024)	-	-	-	ND (0.0024)	-	-	-	-	ND (0.0023)	-	-	-	ND (0.0022)	-	-	-	-
4,4'-DDT	27	NA	ND (0.0024)	-	-	-	ND (0.0024)	-	-	-	-	ND (0.0023)	-	-	-	ND (0.0022)	-	-	-	-
Aldrin	0.33	NA	ND (0.0024)	-	-	-	ND (0.0024)	-	-	-	-	ND (0.0023)	-	-	-	ND (0.0022)	-	-	-	-
alpha-BHC	1.2	NA	ND (0.0024)	-	-	-	ND (0.0024)	-	-	-	-	ND (0.0023)	-	-	-	ND (0.0022)	-	-	-	-
alpha-Chlordane (cis)	8.2	NA	ND (0.0024)	-	-	-	ND (0.0024)	-	-	-	-	ND (0.0023)	-	-	-	ND (0.0022)	-	-	-	-
beta-BHC	1.8	NA	ND (0.0024)	-	-	-	ND (0.0024)	-	-	-	-	ND (0.0023)	-	-	-	ND (0.0022)	-	-	-	-
Chlordane	NA	NA	ND (0.079)	-	-	-	ND (0.082)	-	-	-	-	ND (0.077)	-	-	-	ND (0.072)	-	-	-	-
delta-BHC	500	NA	ND (0.0024)	-	-	-	ND (0.0024)	-	-	-	-	ND (0.0023)	-	-	-	ND (0.0022)	-	-	-	-
Dieldrin	0.48	NA	ND (0.0024)	-	-	-	ND (0.0024)	-	-	-	-	ND (0.0023)	-	-	-	ND (0.0022)	-	-	-	-
Endosulfan I	360	NA	ND (0.0024)	-	-	-	ND (0.0024)	-	-	-	-	ND (0.0023)	-	-	-	ND (0.0022)	-	-	-	-
Endosulfan II	360	NA	ND (0.0024)	-	-	-	ND (0.0024)	-	-	-	-	ND (0.0023)	-	-	-	ND (0.0022)	-	-	-	-
Endosulfan sulfate	360	NA	ND (0.0024)	-	-	-	ND (0.0024)	-	-	-	-	ND (0.0023)	-	-	-	ND (0.0022)	-	-	-	-
Endrin	55	NA	ND (0.0024)	-	-	-	ND (0.0024)	-	-	-	-	ND (0.0023)	-	-	-	ND (0.0022)	-	-	-	-
Endrin aldehyde	NA	NA	ND (0.0024)	-	-	-	ND (0.0024)	-	-	-	-	ND (0.0023)	-	-	-	ND (0.0022)	-	-	-	-
Endrin ketone	NA	NA	ND (0.0024)	-	-	-	ND (0.0024)	-	-	-	-	ND (0.0023)	-	-	-	ND (0.0022)	-	-	-	-
gamma-BHC (Lindane)	0.21	NA	ND (0.0024)	-	-	-	ND (0.0024)	-	-	-	-	ND (0.0023)	-	-	-	ND (0.0022)	-	-	-	-
Heptachlor	5.1	NA	ND (0.0024)	-	-	-	ND (0.0024)	-	-	-	-	ND (0.0023)	-	-	-	ND (0.0022)	-	-	-	-
Heptachlor epoxide	NA	NA	ND (0.0024)	-	-	-	ND (0.0024)	-	-	-	-	ND (0.0023)	-	-	-	ND (0.0022)	-	-	-	-
Methoxychlor	NA	NA	ND (0.0024)	-	-	-	ND (0.0024)	-	-	-	-	ND (0.0023)	-	-	-	ND (0.0022)	-	-	-	-
Toxaphene	NA	NA	ND (0.079)	-	-	-	ND (0.082)	-	-	-	-	ND (0.077)	-	-	-	ND (0.072)	-	-	-	-

TABLE I
SUMMARY OF SOIL QUALITY DATA - AST04 ISS OVERBURDEN GRIDS 11 THROUGH 14
NORTHPOINT DEVELOPMENT
FORMER PORT MOBIL TERMINAL
STATEN ISLAND, NEW YORK

	Location Name Sample Name Sample Date Lab Sample ID	Commercial Use Soil Cleanup Objectives 2025	AST04-ISS11_0-5 AST04-ISS11_0-5 04/14/2026 460-348810-15	AST04-ISS11_A AST04-ISS11_A 04/14/2026 460-348810-1	AST04-ISS11_B AST04-ISS11_B 04/14/2026 460-348810-2	AST04-ISS11_C AST04-ISS11_C 04/14/2026 460-348810-3	AST04-ISS12_0-6 AST04-ISS12_0-6 04/14/2026 460-348810-16	AST04-ISS12_A AST04-ISS12_A 04/14/2026 460-348810-4	AST04-ISS12_B AST04-ISS12_B 04/14/2026 460-348810-5	AST04-ISS12_C AST04-ISS12_C 04/14/2026 460-348810-6	AST04-ISS12_D AST04-ISS12_D 04/14/2026 460-348810-7	AST04-ISS13_0-6 AST04-ISS13_0-6 04/14/2026 460-348810-17	AST04-ISS13_A AST04-ISS13_A 04/14/2026 460-348810-8	AST04-ISS13_B AST04-ISS13_B 04/14/2026 460-348810-9	AST04-ISS13_C AST04-ISS13_C 04/14/2026 460-348810-10	AST04-ISS14_0-7 AST04-ISS14_0-7 04/14/2026 460-348810-18	AST04-ISS14_A AST04-ISS14_A 04/14/2026 460-348810-11	AST04-ISS14_B AST04-ISS14_B 04/14/2026 460-348810-12	AST04-ISS14_C AST04-ISS14_C 04/14/2026 460-348810-13	AST04-ISS14_D AST04-ISS14_D 04/14/2026 460-348810-14
Polychlorinated Biphenyls (mg/kg)																				
Aroclor-1016 (PCB-1016)	NA	ND (0.079)	-	-	-	-	ND (0.082)	-	-	-	-	ND (0.077)	-	-	-	ND (0.072)	-	-	-	-
Aroclor-1221 (PCB-1221)	NA	ND (0.079)	-	-	-	-	ND (0.082)	-	-	-	-	ND (0.077)	-	-	-	ND (0.072)	-	-	-	-
Aroclor-1232 (PCB-1232)	NA	ND (0.079)	-	-	-	-	ND (0.082)	-	-	-	-	ND (0.077)	-	-	-	ND (0.072)	-	-	-	-
Aroclor-1242 (PCB-1242)	NA	ND (0.079)	-	-	-	-	ND (0.082)	-	-	-	-	ND (0.077)	-	-	-	ND (0.072)	-	-	-	-
Aroclor-1248 (PCB-1248)	NA	ND (0.079)	-	-	-	-	ND (0.082)	-	-	-	-	ND (0.077)	-	-	-	ND (0.072)	-	-	-	-
Aroclor-1254 (PCB-1254)	NA	ND (0.079)	-	-	-	-	ND (0.082)	-	-	-	-	ND (0.077)	-	-	-	ND (0.072)	-	-	-	-
Aroclor-1260 (PCB-1260)	NA	ND (0.079)	-	-	-	-	ND (0.082)	-	-	-	-	ND (0.077)	-	-	-	ND (0.072)	-	-	-	-
Aroclor-1262 (PCB-1262)	NA	ND (0.079)	-	-	-	-	ND (0.082)	-	-	-	-	ND (0.077)	-	-	-	ND (0.072)	-	-	-	-
Aroclor-1268 (PCB-1268)	NA	ND (0.079)	-	-	-	-	ND (0.082)	-	-	-	-	ND (0.077)	-	-	-	ND (0.072)	-	-	-	-
Total PCBs	1	ND (0.079)	-	-	-	-	ND (0.082)	-	-	-	-	ND (0.077)	-	-	-	ND (0.072)	-	-	-	-
Inorganic Compounds (mg/kg)																				
Aluminum	NA	9100	-	-	-	-	6860	-	-	-	-	2700	-	-	-	7080	-	-	-	-
Antimony	NA	0.3 J	-	-	-	-	0.2 J	-	-	-	-	0.83 J	-	-	-	0.13 J	-	-	-	-
Arsenic	16	3.9	-	-	-	-	6.6	-	-	-	-	6.3	-	-	-	2.5	-	-	-	-
Barium	410	58.3	-	-	-	-	41.6	-	-	-	-	20.5	-	-	-	59.8	-	-	-	-
Beryllium	670	0.55	-	-	-	-	0.6	-	-	-	-	0.27 J	-	-	-	0.48	-	-	-	-
Cadmium	3.7	0.67	-	-	-	-	0.13 J	-	-	-	-	0.59	-	-	-	ND (0.44)	-	-	-	-
Calcium	NA	1210	-	-	-	-	1250	-	-	-	-	1480	-	-	-	1230	-	-	-	-
Chromium	NA	16.3	-	-	-	-	15.9	-	-	-	-	10.5	-	-	-	13.8	-	-	-	-
Cobalt	NA	12.8	-	-	-	-	9	-	-	-	-	3.2	-	-	-	7.5	-	-	-	-
Copper	280	28.3	-	-	-	-	20	-	-	-	-	27.4	-	-	-	18.4	-	-	-	-
Iron	NA	17600	-	-	-	-	22700	-	-	-	-	12400	-	-	-	16800	-	-	-	-
Lead	1000	144	-	-	-	-	22.2	-	-	-	-	194	-	-	-	9.7	-	-	-	-
Magnesium	NA	2400	-	-	-	-	1860	-	-	-	-	1080	-	-	-	3920	-	-	-	-
Manganese	10000	237	-	-	-	-	292	-	-	-	-	88.7	-	-	-	396	-	-	-	-
Mercury	1.1	0.011 J	-	-	-	-	0.017 J	-	-	-	-	0.018 J	-	-	-	ND (0.018)	-	-	-	-
Nickel	320	16.7	-	-	-	-	12	-	-	-	-	7.5	-	-	-	17.2	-	-	-	-
Potassium	NA	1090	-	-	-	-	731	-	-	-	-	436	-	-	-	1300	-	-	-	-
Selenium	1700	0.23 J	-	-	-	-	0.42 J	-	-	-	-	0.27 J	-	-	-	ND (1.1)	-	-	-	-
Silver	1700	ND (0.38)	-	-	-	-	ND (0.47)	-	-	-	-	0.11 J	-	-	-	ND (0.36)	-	-	-	-
Sodium	NA	90.7 J	-	-	-	-	72.9 J	-	-	-	-	59.2 J	-	-	-	122	-	-	-	-
Thallium	NA	0.097 J	-	-	-	-	0.093 J	-	-	-	-	ND (0.38)	-	-	-	0.094 J	-	-	-	-
Vanadium	NA	20.2	-	-	-	-	28.4	-	-	-	-	14	-	-	-	18.2	-	-	-	-
Zinc	10000	121	-	-	-	-	41.8	-	-	-	-	110	-	-	-	40.2	-	-	-	-

ABBREVIATIONS AND NOTES:

mg/kg: milligram per kilogram

-: Not Analyzed

bgs: below ground surface

ft: feet

NA: Not Applicable

ND (2.5): Not detected, number in parentheses is the laboratory reporting limit

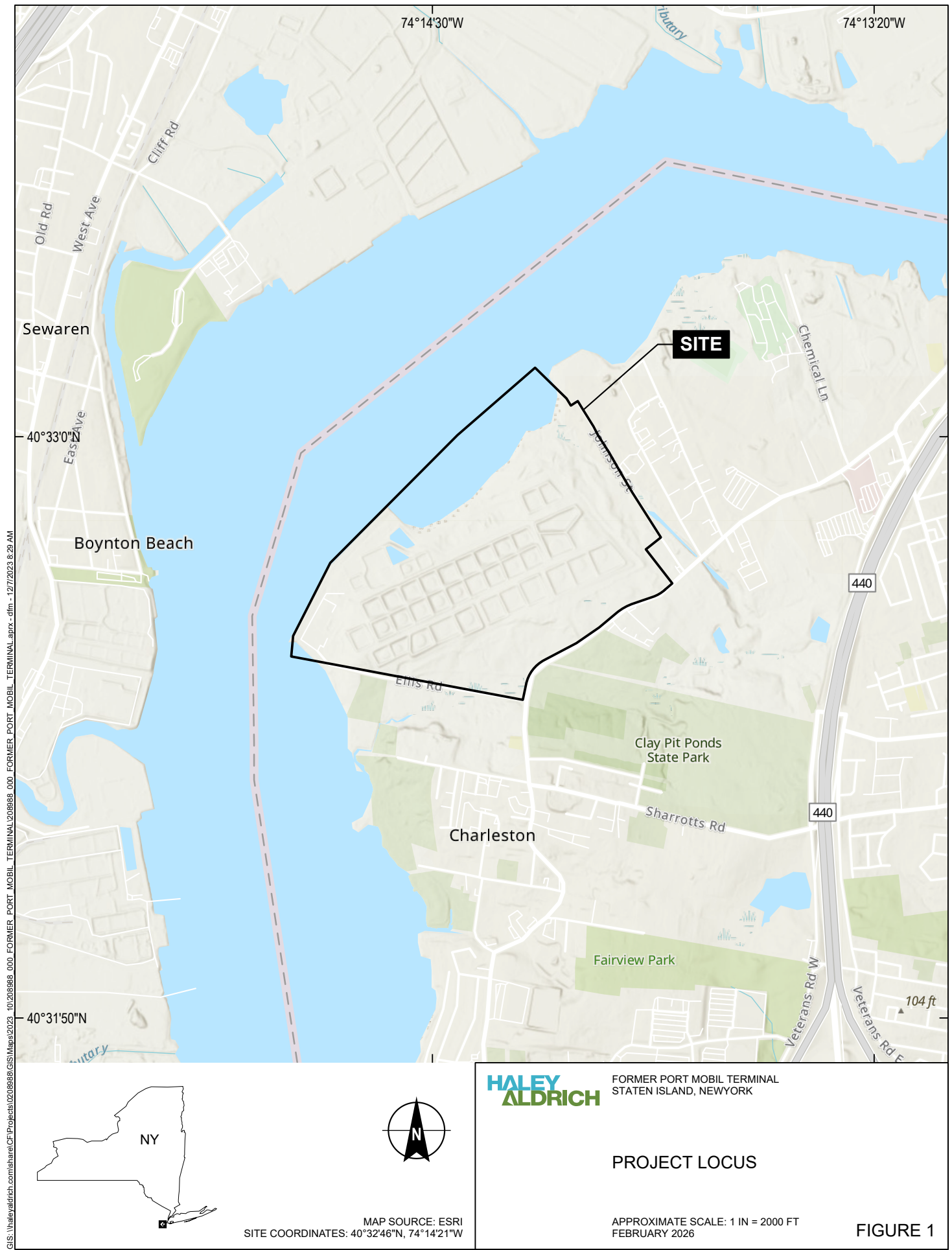
J: Value is estimated

- For test methods used, see the laboratory data sheets.

- Soil analytical results are compared to the New York State Department of Environmental Conservation (NYSDEC) Title 6 of the Official Compilation of New York Codes, Rules, and Regulations (NYCRR) Part 375 Commercial Use Soil Cleanup Objectives (SCO) and PFAS guidance values.

- Grey shading indicates an exceedance of the Unrestricted Use Soil Cleanup Objectives.

FIGURES



GIS FILE PATH: \\haleyaldrich.com\share\CF\Projects\0208988\GIS\Maps\2026_01\208988_IUSCO_POWSCO_SiteCOC.aprx - USER: pfallio - LAST SAVED: 1/26/2026 11:08 AM



LEGEND

----- CONTAINMENT BERM

STRUCTURES

SURFACE IMPOUNDMENT

OU-2 WETLAND AREA

OU-2 AREA

OU-2 TIDAL FLAT AREA

PROJECT SITE BOUNDARY

NOTES

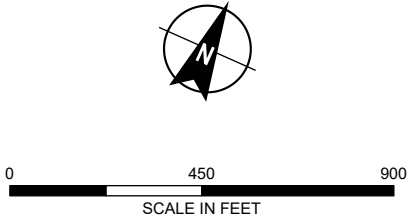
1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.

2. ALL AREAS WITHIN THE SITE BOUNDARY, EXCLUDING THE OU-2 WETLAND AND TIDAL FLAT AREAS, ARE CONSIDERED PART OF OU-1.

3. WETLAND BOUNDARY INCLUDES THE 100-FT WETLAND BUFFER AND TIDAL FLAT AREA BOUNDARY INCLUDES THE 150-FT TIDAL BUFFER.

4. # = TANK NUMBERS REPRESENT FORMER TANK LOCATIONS.

5. AERIAL IMAGERY SOURCE: NEARMAP, OCTOBER 4, 2025



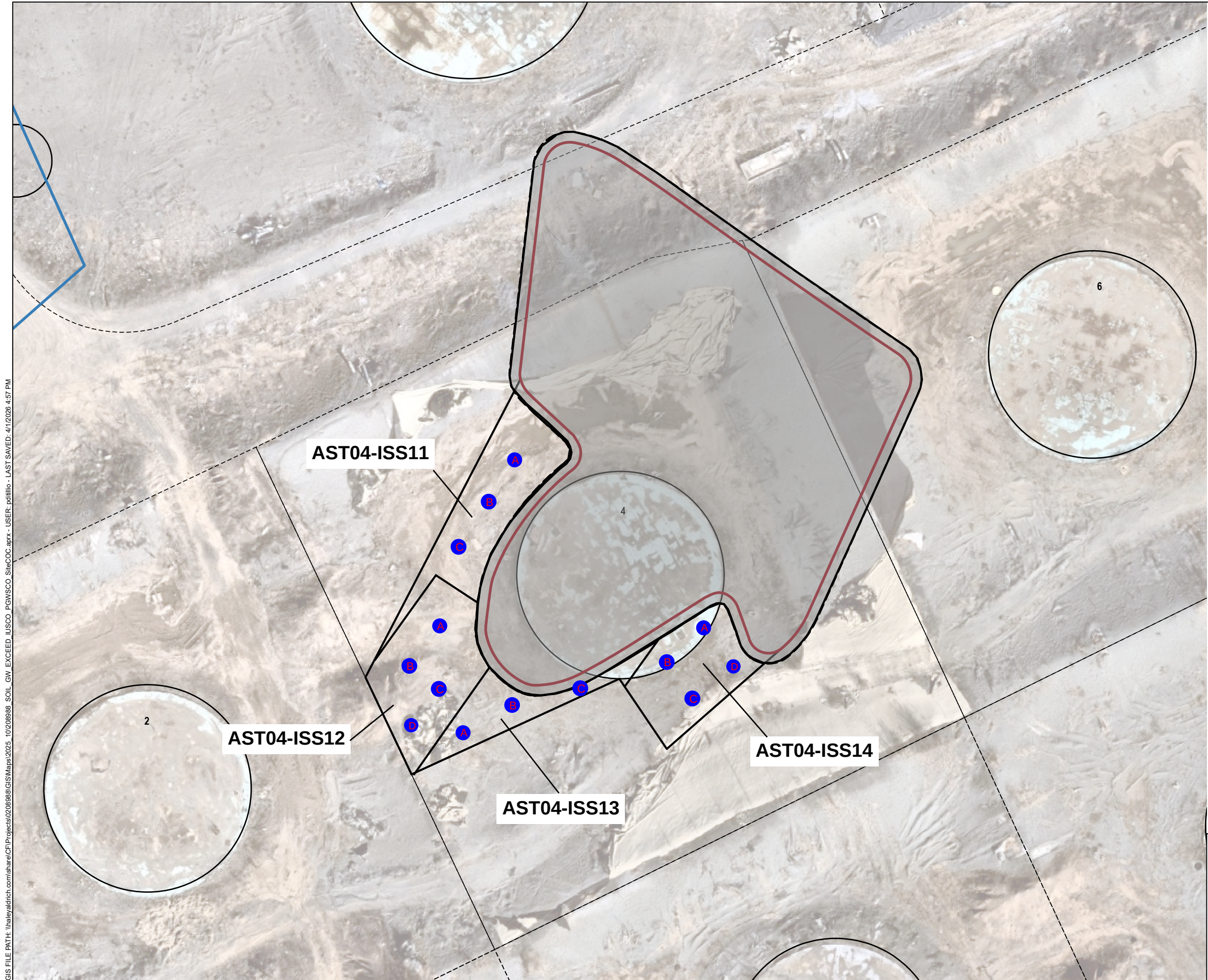
HALEY ALDRICH FORMER PORT MOBIL TERMINAL
STATEN ISLAND, NEW YORK

SITE PLAN

FEBRUARY 2026

FIGURE 2

GIS FILE PATH: \\haleyaldrich.com\share\CF\Projects\0208888\GIS\Maps\2025_10\208888_Soil_GW_EXCEED_IUSCO_POWSCO_SiteCOC.aprx - USER: ptililio - LAST SAVED: 4/1/2026 4:57 PM

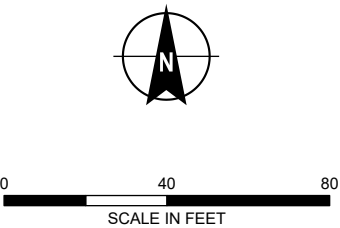


LEGEND

- CONTAINMENT BERM
- APPROXIMATE EXTENT OF LNAPL
- REUSE SAMPLING GRID LOCATION
- AST04 OVERBURDEN MATERIAL PREVIOUSLY SAMPLED FOR REUSE
- B SAMPLE LOCATION/COMPOSITE POINT

NOTES

- ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
- DEFINITIONS:
BGS = BELOW GROUND SURFACE
LNAPL = LIGHT NON-AQUEOUS PHASE LIQUID
- AERIAL IMAGERY SOURCE: NEARMAP, APRIL 9, 2025



**HALEY
ALDRICH**

FORMER PORT MOBIL TERMINAL
STATEN ISLAND, NEWYORK

AST04 ISS OVERBURDEN SOIL REUSE
SAMPLE LOCATION MAP - GRIDS 11
THROUGH 14

APRIL 2026

FIGURE 3

ATTACHMENT A
Soil Reuse Characterization Plan for Site-Wide Remedy



H & A OF NEW YORK ENGINEERING
AND GEOLOGY, LLP
213 W. 35th Street
7th floor
New York, NY 10001

TECHNICAL MEMORANDUM

July 21, 2025
File No. 0208988

TO: Remedial Bureau B, Section D
Division of Environmental Remediation
New York State Department of Environmental Conservation
625 Broadway, Floor 12
Albany, New York 12233
Corrective Action Section

Land and Redevelopment Programs Branch
Land, Chemicals & Redevelopment Division
U.S. Environmental Protection Agency Region 2
290 Broadway, 25th Floor
New York, New York 10007-1866

ATTENTION: Rafi Alam, Project Manager, NYSDEC
Sameh Abdellatif, Project Manager, USEPA

FROM: H & A of New York Engineering and Geology, LLP
Thomas R. Giordano, Project Manager
Suzanne M. Bell, P.E., Senior Associate

SUBJECT: Soil Reuse Characterization Plan for Site-Wide Remedy
Former Port Mobil Terminal (243016)

On behalf of NP Staten Island Industrial, LLC, H & A of New York Engineering and Geology, LLP (Haley & Aldrich of New York) is submitting this Soil Reuse Characterization Plan for the Former Port Mobil Terminal located at 4101 Arthur Kill Road in Staten Island, New York (the "Site," Figure 1). This Soil Reuse Characterization Plan has been developed based on the sampling frequency in the New York State Department of Environmental Conservation's (NYSDEC's) Division of Environmental Remediation (DER)-10 Table 5.4 (e).

Introduction

Haley & Aldrich of New York has prepared this Soil Reuse Characterization Plan, which includes a Community Air Monitoring Plan (CAMP) for the Site. A Project Locus is included as Figure 1.

On December 6, 2024, the draft Alternatives Analysis (AA) / Remedial Action Work Plan (RAWP) prepared by Haley & Aldrich of New York was submitted to the NYSDEC and United States Environmental Protection Agency (USEPA). A revised draft was submitted on May 1, 2025. Both documents outlined the proposed remedial action for the Site, which includes in-situ solidification (ISS) and a permeable reactive barrier (PRB) wall as recommended technologies. To prepare for and support future remedial and development work, Haley & Aldrich of New York will conduct soil sampling activities within the proposed ISS and PRB wall areas.

Soil sampling activities will include soil boring installations via a track-mounted Geoprobe® drill rig and sample collection to evaluate whether the overburden in the ISS areas and across the extent of the PRB wall can be reused to support future development and Site-wide remediation. Sampling will be conducted in accordance with the procedures described in NYSDEC DER-10 Table 5.4(e) to meet the applicable NYSDEC Part 375 Commercial Use Soil Cleanup Objectives (CUSCOs) and the NYSDEC Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS) Guidance Values. This includes a sampling frequency of every 1,000 cubic yards of material as indicated in NYSDEC DER-10 Table 5.4 (e).

The Site, which is a former Major Oil Storage Facility (MOSF), contained former aboveground storage tanks (ASTs) within the proposed area of redevelopment. The ASTs are surrounded by berms, which were designed to contain potential releases when the ASTs were in use and to mitigate stormwater runoff. As many of the proposed ISS areas are in/beneath the areas of existing berms, the sampling and characterization of berm material are being conducted separately in accordance with the Berm Sampling Work Plan, dated December 2024, and its Addendum, dated July 2025, both prepared by Haley & Aldrich of New York. Soil sampling of the berms above the ISS areas is not included within this Soil Reuse Characterization Plan.

This plan also includes a Site-specific CAMP to be implemented during the ISS overburden and PRB wall sampling events, and it was developed in accordance with the New York State Department of Health (NYSDOH) Generic Community Air Monitoring Plan and the NYSDEC DER-10 Technical Guidance for Site Investigation and Remediation. The CAMP details measures for the protection of the downwind community (i.e., off-Site receptors including residences and businesses, and on-Site workers not directly involved in the investigation activities) from potential airborne contaminant releases resulting from sampling activities at the Site. Compliance with this CAMP is required during all activities associated with soil sampling activities, such as drilling, equipment idling, transport, etc., that have the potential to generate airborne particulate matter and volatile organic compounds (VOCs).

ISS Overburden Soil Sampling

The ISS overburden areas have been divided into 36 grids, as shown on Figures 3 through 7, where three to four borings will be installed in each grid. Soil borings will be installed via direct-push methods (e.g., Geoprobe®). A total of 36 composite samples and 125 discrete samples will be collected to characterize the top 4 feet (ft) of overburden soils from the ISS areas. ISS sampling grids and depth intervals are included in Table 1. Prior to sampling in former AST areas, existing tank bottoms will be removed from the work areas by others in accordance with the Demolition Work Plan, dated May 4, 2021, by Industrial Development Advantage Port Mobil, LLC and Weston Solutions of New York, Inc.

Proposed boring locations may be adjusted or moved based on field conditions to minimize disturbance of existing berms, infrastructure, or other Site features.

Composite soil samples will be analyzed for the following parameters:

- Target Compound List (TCL) semi-volatile organic compounds (SVOCs);
- Target Analyte List (TAL) total metals;
- Polychlorinated biphenyls (PCBs);
- Pesticides; and
- PFAS.

Discrete soil samples will be analyzed for TCL VOCs.

Permeable Reactive Barrier Wall Soil Sampling

The PRB wall has been divided into six segments, as shown in Figure 8. Haley & Alrich of New York will oversee the installation of four to five soil borings per segment for composite and discrete sampling. Each segment of the proposed wall is comprised of approximately 1,000 cubic yards, measuring approximately 400 to 450 ft long, 3 ft wide, and 20 ft deep. Borings PRB-01 through PRB-17 within segments were previously included as part of the Pre-Design Investigation Work Plan, appended to the draft AA/RAWP (May 2025) and are included in this work plan for reuse characterization. As the route of the PRB has been modified since the submission of the May 2025 draft AA/RAWP, the locations of the original 17 pre-design investigation (PDI) borings have been adjusted to represent the latest iteration of the proposed PRB path. Borings PRB-A to PRB-H have been added to the outer segments of the proposed PRB wall path for representative reuse characterization. Soil borings will be installed utilizing direct-push methods (e.g., Geoprobe®). A total of approximately 12 composite samples and 42 discrete samples will be collected to characterize the PRB wall soil from grade to 20 ft below ground surface (bgs). PRB wall sampling grids and depth intervals are included in Table 2.

Composite soil samples will be analyzed for the following parameters:

- TCL SVOCs;
- TAL total metals;
- PCBs;
- Pesticides; and
- PFAS.

Discrete soil samples will be analyzed for TCL VOCs.

Community Air Monitoring Program

Real-time air monitoring will be conducted in three locations during ground intrusive activities and will be based on the location of work, Site conditions, and nearest receptors (as shown on Figures 2 and 8). Continuous monitoring will be performed for all ground intrusive activities and during the handling of contaminated or potentially contaminated media.

The contaminants of concern (COCs) at the Site include VOCs, lead, zinc, and polycyclic aromatic hydrocarbons (PAHs). The VOCs include benzene, toluene, ethylbenzene, xylene (collectively BTEX compounds), 1,2,4-trimethylbenzene, and 1,3,5-trimethylbenzene. The PAHs include benzo[a] anthracene, benzo[a] pyrene, benzo[b] fluoranthene, indeno [1,2,3-cd] pyrene, naphthalene, and chrysene. VOCs may volatilize directly into the air during intrusive work activities. Lead, zinc, and PAHs are not volatile compounds and may be adsorbed to particulates (i.e., dust). Baseline levels will be established prior to work commencing, which will allow for correlations to be evaluated between Site activities and CAMP results. The Action Level Limits and Actions discussed below are summarized in Table 3.

VOC MONITORING, RESPONSE LEVELS, AND ACTIONS

VOCs will be monitored at CAMP stations at the three locations during ground intrusive activities, based on the location of the work, Site conditions, and nearest receptors. Upwind concentrations will be measured at the start of each workday and periodically thereafter to establish background conditions. Roaming equipment to assess VOCs will be carried by the field support overseeing implementation of the waste characterization scope. The monitoring work will be performed using equipment appropriate to measure the types of contaminants known or suspected of being present. The equipment will be calibrated at least daily for the COCs or an appropriate surrogate. The equipment will be capable of calculating 15-minute running average concentrations, which will be compared to the levels specified below.

- If the ambient air concentration of total organic vapors at the downwind perimeter of the work area or exclusion zone exceeds 5 parts per million (ppm) above background for the 15-minute average, work activities will be temporarily halted and monitoring continued. If the total organic

vapor level readily decreases (per instantaneous readings) below 5 ppm over background, work activities will resume with continued monitoring.

- If total organic vapor levels at the downwind perimeter of the work area or exclusion zone persist at levels in excess of 5 ppm over background but less than 25 ppm, work activities will be halted, the source of vapors identified, corrective actions taken to abate emissions, and monitoring continued. After these steps, work activities will resume provided that the total organic vapor level 200 ft downwind of the exclusion zone or half the distance to the nearest potential receptor or residential/commercial structure, whichever is less, but in no case less than 20 ft, is below 5 ppm over background for the 15-minute average.
- If the organic vapor level is above 25 ppm at the perimeter of the work area, activities will be shut down.
- All 15-minute readings must be recorded and be available for NYSDEC and USEPA personnel to review. Instantaneous readings, if any, used for decision purposes, will also be recorded. Proactive measures will be taken to control VOCs, such as the use of a foaming agent and wintergreen misting to prevent off-Site migration of VOCs and to suppress odors.

PARTICULATE MONITORING, RESPONSE LEVELS, AND ACTIONS

Dust particulates will be monitored at CAMP stations at the three locations during ground intrusive activities, based on the location of the work, Site conditions, and nearest receptors. Particulate concentrations will be evaluated through particulate monitoring via real-time monitoring equipment capable of measuring particulate matter less than 10 micrometers in size (PM-10). In the event this equipment is implemented, the equipment will be capable of integrating over a period of 15 minutes (or less) for comparison to the airborne particulate action level discussed below:

- If the downwind PM-10 particulate level is 100 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$) greater than background (upwind perimeter) for the 15-minute period or if airborne dust is observed leaving the work area, then dust suppression techniques will be employed. Work will continue with dust suppression techniques provided that downwind PM-10 particulate levels do not exceed 150 $\mu\text{g}/\text{m}^3$ greater than the upwind level and provided that no visible dust is migrating from the work area.
- If, after implementation of dust suppression techniques, downwind PM-10 particulate levels are greater than 150 $\mu\text{g}/\text{m}^3$ above the upwind level, work will be stopped, and a re-evaluation of activities initiated. Work will resume provided that dust suppression measures and other controls are successful in reducing the downwind PM-10 particulate concentration to within 150 $\mu\text{g}/\text{m}^3$ of the upwind level and in preventing visible dust migration.

All 15-minute readings must be recorded and be available for NYSDEC and USEPA personnel to review. Instantaneous readings, if any, used for decision purposes, will also be recorded. Proactive measures will be taken to control dust particulates, such as the use of water sprayers to suppress dust generation and migration off Site.

FUGITIVE DUST SUPPRESSION TECHNIQUES

Reasonable fugitive dust suppression techniques must be employed during all Site activities that may generate fugitive dust. The following techniques have been shown effective for controlling the generation and migration of dust during soil sampling activities, and will be employed as needed during all ground intrusive on-Site activities:

- Applying water on haul roads;
- Wetting equipment prior to and during use;
- Hauling materials in properly tarped or watertight containers; and,
- Restricting on-Site vehicle speeds to 10 miles per hour (mph).

By employing the above techniques, the chance of exceeding the $150 \mu\text{g}/\text{m}^3$ action level becomes extremely remote. In techniques involving water application, care must be taken not to generate unacceptably wet conditions. Using atomizing sprays will prevent such overly wet conditions, conserve water, and provide an effective means of fugitive dust suppression.

Reporting

Reporting will be conducted throughout the execution of the ISS overburden and PRB wall sampling for on-Site reuse as described below.

DAILY REPORTS

During implementation of field activities for ISS overburden and PRB wall sampling, daily field reports will be submitted electronically to the NYSDEC, USEPA, and NYSDOH on the business day following the field activities. These daily reports will include a representative photolog, an updated Site figure, and a description of work.

Daily reports are not intended to be the mode of communication for notification to the NYSDEC of emergencies (e.g., accident, spill), identification of previously unidentified contaminated media, requests for changes to the ISS overburden and PRB wall sampling for on-Site reuse scope, or other sensitive or time-critical information. However, such conditions must also be included in the daily reports. Emergency conditions and changes to the scope will be addressed directly to the USEPA Project Coordinator and NYSDEC Project Manager via email (and verbal, as deemed appropriate) communication.

Exceedances of action levels observed during performance of the CAMP will be reported to the NYSDEC and USEPA via email and included in the daily report to be submitted to NYSDEC and USEPA the morning after Site activities are completed, along with actions and responses. Daily reports will include the following information:

- Date;

- Personnel;
- Wind direction;
- Meteorological data (i.e., temperature, weather, atmospheric pressure);
- Site map;
- CAMP station locations;
- Notes regarding any equipment malfunctions; and
- Notes regarding any mitigation efforts or work stoppage due to CAMP exceedances.

SOIL REUSE SUMMARY REPORT

Upon completion of the scope and once the results are received, a summary report will be prepared for submission to NYSDEC and USEPA outlining means, methods, sampling techniques, findings, and conclusions. This summary report will also include a reuse request should the analytical results meet CUSCOs and PFAS Guidance Values, and the soil be acceptable for on-Site reuse.

The report will include boring logs and summarize the sampling activities, including analytical data tables and figures showing each of the sampling locations. No material from this scope is to be reused on the Site until the formal request is approved by the NYSDEC and USEPA.

Data Quality Assurance

To ensure data quality, instrument calibration will be completed as required by the manufacturer and recorded daily. Calibration checks and duplicate readings may be completed as needed to confirm instrument response and accuracy. All instruments will be operated in accordance with the manufacturer's specifications, copies of which will be kept on the Site.

The on-Site field personnel will review monitoring data throughout the day and evaluate them in comparison to the action levels. The NYSDEC Project Manager will review monitoring data periodically and/or when action levels are triggered.

Investigation-Derived Waste Management

Following sample collection, boreholes will be backfilled with soil cuttings and areas restored to grade with the surrounding area. If soil is identified as grossly contaminated, it will be separated and placed into a sealed and labeled New York State Department of Transportation (NYSDOT)-approved 55-gallon drum pending characterization and off-Site disposal.

Soil borings will be installed utilizing direct-push methods (e.g., Geoprobe®) and will not utilize fluid for drilling purposes. All proposed sampling will be completed via properly decontaminated hand tools or

direct-push technology tools. Decontamination fluids will be containerized in NYSDOT-approved 55-gallon drums pending off-Site disposal.

If you have any questions, please do not hesitate to contact the undersigned.

Sincerely yours,

H & A OF NEW YORK ENGINEERING AND GEOLOGY, LLP



Michael J. Boland, E.I.T.
Assistant Project Manager



Thomas R. Giordano
Project Manager



Suzanne M. Bell, P.E.
Senior Associate

Attachments:

Table 1 – ISS Overburden Soil Sampling and Analysis Plan

Table 2 – PRB Wall Soil Sampling and Analysis Plan

Table 3 – Action Level Limit Summary

Figure 1 – Project Locus

Figure 2 – ISS Areas Overburden Soil Sampling Summary Plan and CAMP Locations

Figure 3 – AST-04 Overburden Soil Sampling Location Plan

Figure 4 – MW-101 Overburden Soil Sampling Location Plan

Figure 5 – AST-12 Overburden Soil Sampling Location Plan

Figure 6 – AST-50A&B Overburden Soil Sampling Location Plan

Figure 7 – MW-AST16A & UST02 Overburden Soil Sampling Location Plan

Figure 8 – PRB Wall Soil Sampling Location Plan and CAMP Locations

TABLES

TABLE 1
ISS OVERBURDEN SOIL SAMPLING AND ANALYSIS PLAN
FORMER PORT MOBIL TERMINAL
STATEN ISLAND, NEW YORK

ISS Area	Grid	Sampling Location	Sample ID	Sample Depth (ft)
Composite Samples				
AST-04	ISS-01	ISS-01A	ISS-01_0-4	0-4
		ISS-01B		
		ISS-01C		
	ISS-02	ISS-02A	ISS-02_0-4	0-4
		ISS-02B		
		ISS-02C		
	ISS-03	ISS-03A	ISS-03_0-4	0-4
		ISS-03B		
		ISS-03C		
		ISS-03D		
	ISS-04	ISS-04A	ISS-04_0-4	0-4
		ISS-04B		
		ISS-04C		
		ISS-04D		
	ISS-05	ISS-05A	ISS-05_0-4	0-4
		ISS-05B		
		ISS-05C		
	ISS-06	ISS-06A	ISS-06_0-4	0-4
		ISS-06B		
		ISS-06C		
		ISS-06D		
	ISS-07	ISS-07A	ISS-07_0-4	0-4
		ISS-07B		
		ISS-07C		
		ISS-07D		
	ISS-08	ISS-08A	ISS-08_0-4	0-4
		ISS-08B		
		ISS-08C		
	ISS-09	ISS-09A	ISS-09_0-4	0-4
		ISS-09B		
		ISS-09C		
		ISS-09D		
	ISS-10	ISS-10A	ISS-10_0-4	0-4
		ISS-10B		
		ISS-10C		
MW-101	ISS-11	ISS-11A	ISS-11_0-4	0-4
		ISS-11B		
		ISS-11C		
	ISS-12	ISS-12A	ISS-12_0-4	0-4
		ISS-12B		
		ISS-12C		
		ISS-12D		
	ISS-13	ISS-13A	ISS-13_0-4	0-4
		ISS-13B		
		ISS-13C		
		ISS-13D		
	ISS-14	ISS-14A	ISS-14_0-4	0-4
		ISS-14B		
		ISS-14C		
	ISS-15	ISS-15A	ISS-15_0-4	0-4
		ISS-15B		
		ISS-15C		
	ISS-16	ISS-16A	ISS-16_0-4	0-4
		ISS-16B		
		ISS-16C		
		ISS-16D		

TABLE 1
ISS OVERBURDEN SOIL SAMPLING AND ANALYSIS PLAN
FORMER PORT MOBIL TERMINAL
STATEN ISLAND, NEW YORK

ISS Area	Grid	Sampling Location	Sample ID	Sample Depth (ft)
Composite Samples				
AST-12	ISS-17	ISS-17A	ISS-17_0-4	0-4
		ISS-17B		
		ISS-17C		
	ISS-18	ISS-18A	ISS-18_0-4	0-4
		ISS-18B		
		ISS-18C		
		ISS-18D		
	ISS-19	ISS-19A	ISS-19_0-4	0-4
		ISS-19B		
		ISS-19C		
	ISS-20	ISS-20A	ISS-20_4	0-4
		ISS-20B		
		ISS-20C		
	ISS-21	ISS-21A	ISS-21_0-4	0-4
		ISS-21B		
		ISS-21C		
	ISS-22	ISS-22A	ISS-22_0-4	0-4
		ISS-22B		
		ISS-22C		
		ISS-22D		
	ISS-23	ISS-23A	ISS-23_0-4	0-4
		ISS-23B		
		ISS-23C		
		ISS-23D		
	ISS-24	ISS-24A	ISS-24_0-4	0-4
		ISS-24B		
		ISS-24C		
	ISS-25	ISS-25A	ISS-25_0-4	0-4
		ISS-25B		
		ISS-25C		
		ISS-25D		
	ISS-26	ISS-26A	ISS-26_0-4	0-4
		ISS-26B		
		ISS-26C		
		ISS-26D		
	ISS-27	ISS-27A	ISS-27_0-4	0-4
		ISS-27B		
		ISS-27C		
	ISS-28	ISS-28A	ISS-28_0-4	0-4
		ISS-28B		
		ISS-28C		
		ISS-28D		
	ISS-29	ISS-29A	ISS-29_0-4	0-4
		ISS-29B		
		ISS-29C		
	ISS-30	ISS-30A	ISS-30_0-4	0-4
		ISS-30B		
		ISS-30C		
	ISS-31	ISS-31A	ISS-31_0-4	0-4
		ISS-31B		
		ISS-31C		
		ISS-31D		
	ISS-32	ISS-32A	ISS-32_0-4	0-4
		ISS-32B		
		ISS-32C		
		ISS-32D		

TABLE 1
ISS OVERBURDEN SOIL SAMPLING AND ANALYSIS PLAN
FORMER PORT MOBIL TERMINAL
STATEN ISLAND, NEW YORK

ISS Area	Grid	Sampling Location	Sample ID	Sample Depth (ft)
Composite Samples				
AST-50A & AST-50B	ISS-33	ISS-33A	ISS-33_0-4	0-4
		ISS-33B		
		ISS-33C		
		ISS-33D		
	ISS-34	ISS-34A	ISS-34_0-4	0-4
		ISS-34B		
		ISS-34C		
MW-AST16A & UST02	ISS-35	ISS-35A	ISS-35_0-4	0-4
		ISS-35B		
		ISS-35C		
	ISS-36	ISS-36A	ISS-36_0-4	0-4
		ISS-36B		
		ISS-36C		

- Notes:
- 1. Composite samples will be analyzed for TCL SVOCs, TAL Metals, PCBs, Pesticides, and PFAS.
 - 2. Three to four discrete samples will be collected per grid.
 - 3. Discrete samples will be analyzed for TCL VOCs.

TABLE 2
PRB WALL SOIL SAMPLING AND ANALYSIS PLAN
FORMER PORT MOBIL TERMINAL
STATEN ISLAND, NEW YORK

PRB Segment Number	Boring Location	Sample ID	Sample Depth (ft)
Composite Samples			
1	PRB-A	PRB-S1_0-10	0-10
		PRB-S1_10-20	10-20
	PRB-B	PRB-S1_0-10	0-10
		PRB-S1_10-20	10-20
	PRB-C	PRB-S1_0-10	0-10
		PRB-S1_10-20	10-20
	PRB-D	PRB-S1_0-10	0-10
		PRB-S1_10-20	10-20
2	PRB-01	PRB-S2_0-10	0-10
		PRB-S2_10-20	10-20
	PRB-02	PRB-S2_0-10	0-10
		PRB-S2_10-20	10-20
	PRB-03	PRB-S2_0-10	0-10
		PRB-S2_10-20	10-20
	PRB-04	PRB-S2_0-10	0-10
		PRB-S2_10-20	10-20
3	PRB-05	PRB-S3_0-10	0-10
		PRB-S3_10-20	10-20
	PRB-06	PRB-S3_0-10	0-10
		PRB-S3_10-20	10-20
	PRB-07	PRB-S3_0-10	0-10
		PRB-S3_10-20	10-20
	PRB-08	PRB-S3_0-10	0-10
		PRB-S3_10-20	10-20
4	PRB-09	PRB-S3_0-10	0-10
		PRB-S3_10-20	10-20
	PRB-10	PRB-S4_0-10	0-10
		PRB-S4_10-20	10-20
	PRB-11	PRB-S4_0-10	0-10
		PRB-S4_10-20	10-20
	PRB-12	PRB-S4_0-10	0-10
		PRB-S4_10-20	10-20
5	PRB-13	PRB-S4_0-10	0-10
		PRB-S4_10-20	10-20
	PRB-14	PRB-S5_0-10	0-10
		PRB-S5_10-20	10-20
	PRB-15	PRB-S5_0-10	0-10
		PRB-S5_10-20	10-20
	PRB-16	PRB-S5_0-10	0-10
		PRB-S5_10-20	10-20
6	PRB-17	PRB-S5_0-10	0-10
		PRB-S5_10-20	10-20
	PRB-E	PRB-S6_0-10	0-10
		PRB-S6_10-20	10-20
	PRB-F	PRB-S6_0-10	0-10
		PRB-S6_10-20	10-20
	PRB-G	PRB-S6_0-10	0-10
		PRB-S6_10-20	10-20
	PRB-H	PRB-S6_0-10	0-10
		PRB-S6_10-20	10-20

- Notes:
1. Composite samples will be analyzed for TCL SVOCs, TAL Metals, PCBs, Pesticides, and PFAS.
 2. Seven discrete samples will be collected per Segment.
 3. Discrete samples will be analyzed for TCL VOCs.
 4. Numbered PRB boring locations (PRB-01 thru PRB-17) require soil type characterization as per PDI work plan.

TABLE 3
ACTION LEVEL LIMIT SUMMARY
 FORMER PORT MOBIL
 STATEN ISLAND, NEW YORK

Parameter	Monitoring Instrument	Response Levels (above background)	Actions	Conditions for Continuing Work Activities
Volatile Organic Compounds	PID and Visual Observation	Greater than 5 ppm but less than 25 ppm	1. Temporary Halt Activity 2. Continue Monitoring	Levels readily decrease below 5 ppm above background levels
	PID and Visual Observation	Persistent Levels between 5 ppm and 25 ppm	1. Temporary Halt Activity 2. Vapor Abatement Action 3. Continue Monitoring	Levels exist below 5 ppm above background levels in areas 200 feet from exclusion zone or half the distance to the nearest receptor (but no less than 20 feet)
	PID and Visual Observation	Greater than 25 ppm	1. Shut Down Activity 2. Vapor Mitigation and Control Action	1. Identified contributing ground intrusive activities must be halted and vapor suppression techniques must be evaluated and modified until monitoring indicates VOC levels below the action level. 2. After these steps, if VOC levels (half the distance to the nearest potential receptor or structure) are below 5 ppm over background, resume work.
Particulates	Dust Meter and Visual Observation	Fugitive Dust Migration	1. Implement Dust Suppression Techniques	Dust suppression techniques are in place
	Dust Meter and Visual Observation	Greater than 100 $\mu\text{g}/\text{m}^3$ but less than 150 $\mu\text{g}/\text{m}^3$	1. Implement Dust Suppression Techniques	Levels must not exceed 150 $\mu\text{g}/\text{m}^3$ with dust suppression techniques in place
	Dust Meter and Visual Observation	Greater than 150 $\mu\text{g}/\text{m}^3$	1. Halt activity 2. Re-evaluate activities	Levels decrease below 150 $\mu\text{g}/\text{m}^3$ and fugitive dust migration is prevented

Notes:

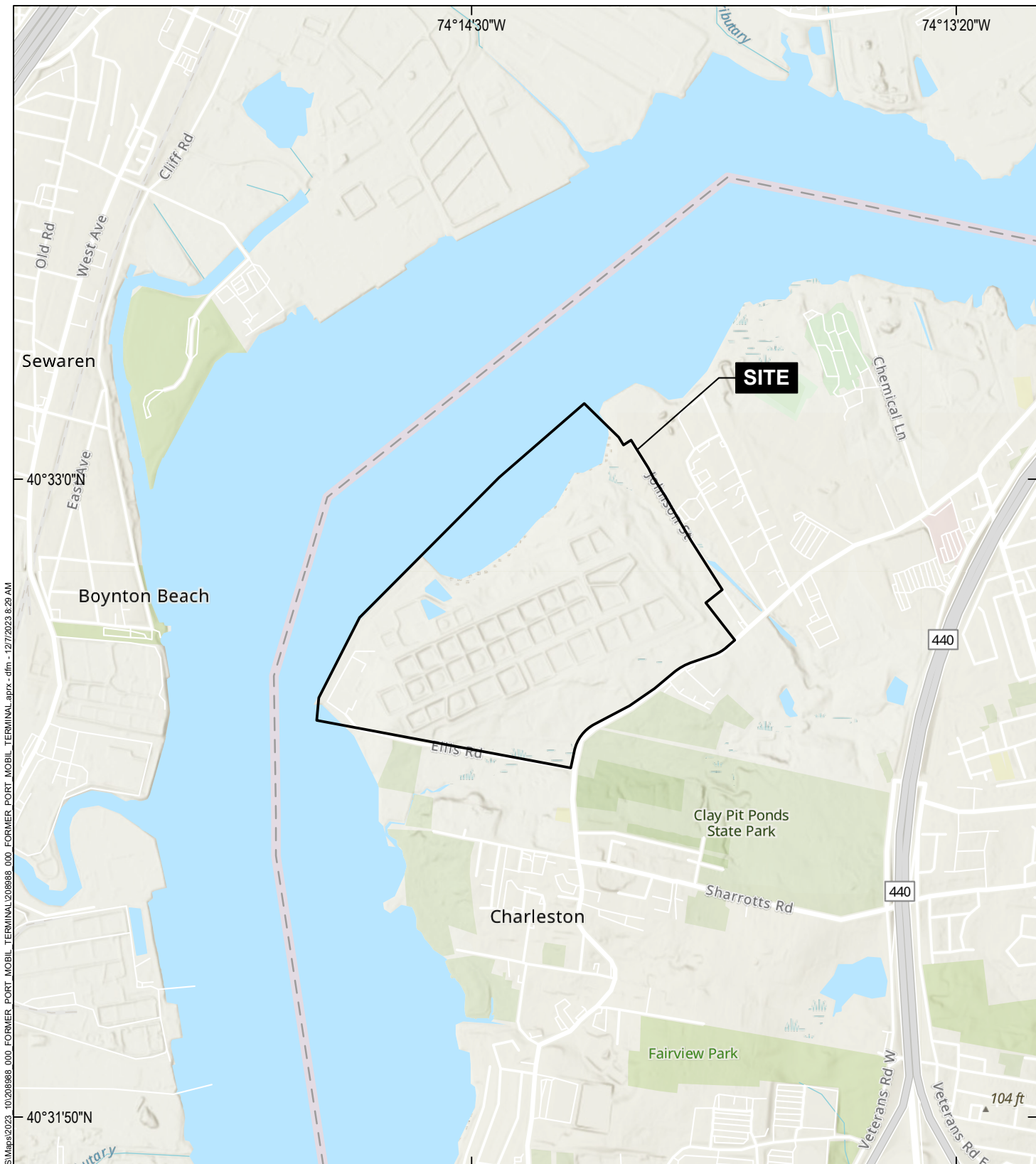
$\mu\text{g}/\text{m}^3$ - micrograms per cubic meter

ppm - parts per million

PID - photoionization detector

VOC - volatile organic compound

FIGURES



GIS: \\haleyaldrich.com\share\CF\Projects\0208988\GIS\Maps\2023_10\208988_000_FORMER_PORT_MOBIL_TERMINAL.aprx - dfm - 12/7/2023 8:29 AM



MAP SOURCE: ESRI
SITE COORDINATES: 40°32'46"N, 74°14'21"W

**HALEY
ALDRICH**

FORMER PORT MOBIL TERMINAL
STATEN ISLAND, NEW YORK

PROJECT LOCUS

APPROXIMATE SCALE: 1 IN = 2000 FT
JULY 2025

FIGURE 1

GIS FILE PATH: \\haleyaldrich.com\share\CF\Projects\0208888\GIS\Maps\2025_04\208888_AA_RAMP_FIGURES.aprx - USER: dfm - LAST SAVED: 4/25/2025 4:37 PM

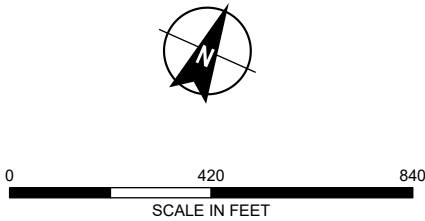


LEGEND

- PROJECT SITE BOUNDARY
- APPROXIMATE EXTENT OF LNAPL
- ISS AREA
- AIR MONITORING STATION

NOTES

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. AERIAL IMAGERY SOURCE: NEARMAP, APRIL 9, 2025



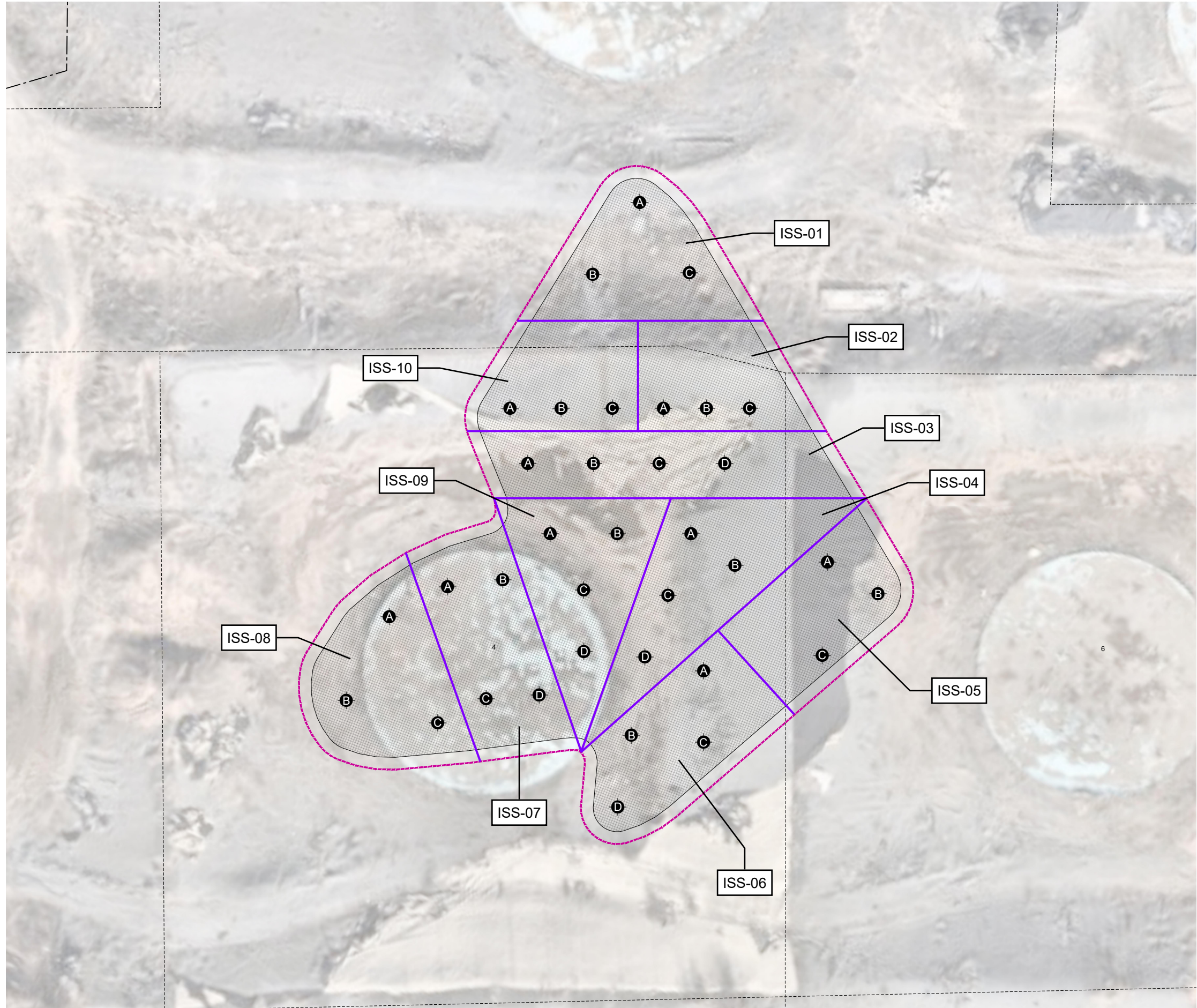
**HALEY
ALDRICH**

FORMER PORT MOBIL TERMINAL
STATEN ISLAND, NEWYORK

ISS AREAS OVERBURDEN SOIL
SAMPLING SUMMARY PLAN AND
CAMP LOCATIONS

JULY 2025

FIGURE 2

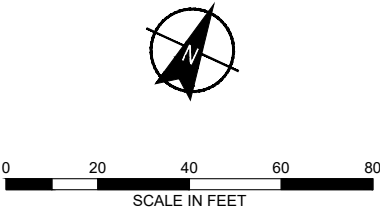


LEGEND

- CONTAINMENT BERM
- APPROXIMATE EXTENT OF LNAPL
- PROPOSED ISS AREAS AND EXCAVATION TO 4' BGS
- SOIL REUSE GRID BOUNDARY
- ISS-01 SOIL REUSE GRID IDENTIFICATION
- BORING LOCATION / COMPOSITE POINT

NOTES

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. AERIAL IMAGERY SOURCE: NEARMAP, APRIL 9, 2025

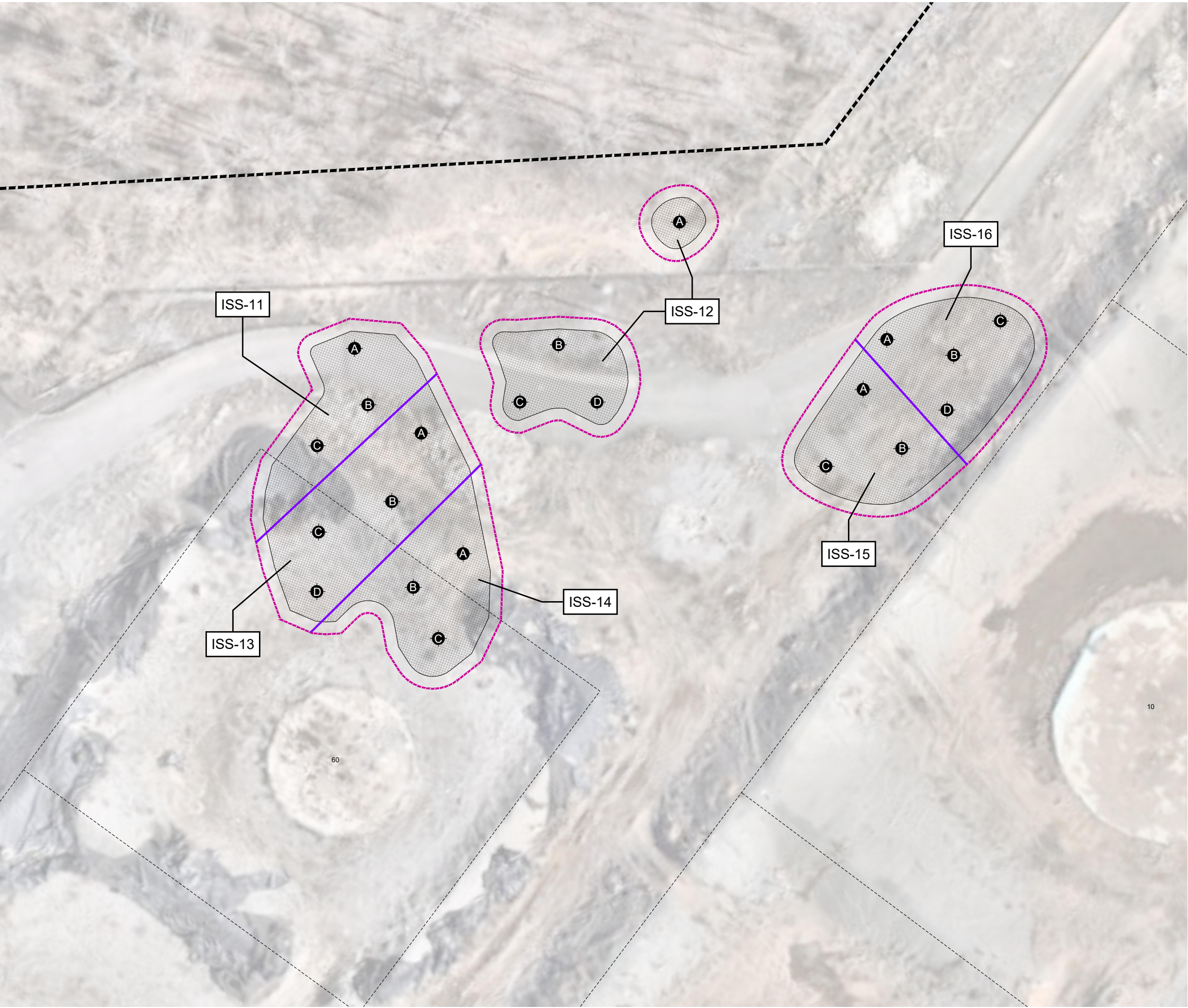


FORMER PORT MOBIL TERMINAL
STATEN ISLAND, NEWYORK

AST-04 OVERBURDEN SOIL
SAMPLING LOCATION PLAN

JULY 2025

FIGURE 3



LEGEND

- CONTAINMENT BERM
- APPROXIMATE EXTENT OF LNAPL
- PROPOSED ISS AREAS AND EXCAVATION TO 4' BGS
- SOIL REUSE GRID BOUNDARY
- ISS-11 SOIL REUSE GRID IDENTIFICATION
- BORING LOCATION / COMPOSITE POINT

NOTES

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. AERIAL IMAGERY SOURCE: NEARMAP, APRIL 9, 2025



FORMER PORT MOBIL TERMINAL
STATEN ISLAND, NEWYORK

MW-101 OVERBURDEN SOIL
SAMPLING LOCATION PLAN

JULY 2025

FIGURE 6



- LEGEND**
- CONTAINMENT BERM
 - APPROXIMATE EXTENT OF LNAPL
 - PROPOSED ISS AREAS AND EXCAVATION TO 4' BGS
 - SOIL REUSE GRID BOUNDARY
 - ISS-17 SOIL REUSE GRID IDENTIFICATION
 - A BORING LOCATION / COMPOSITE POINT

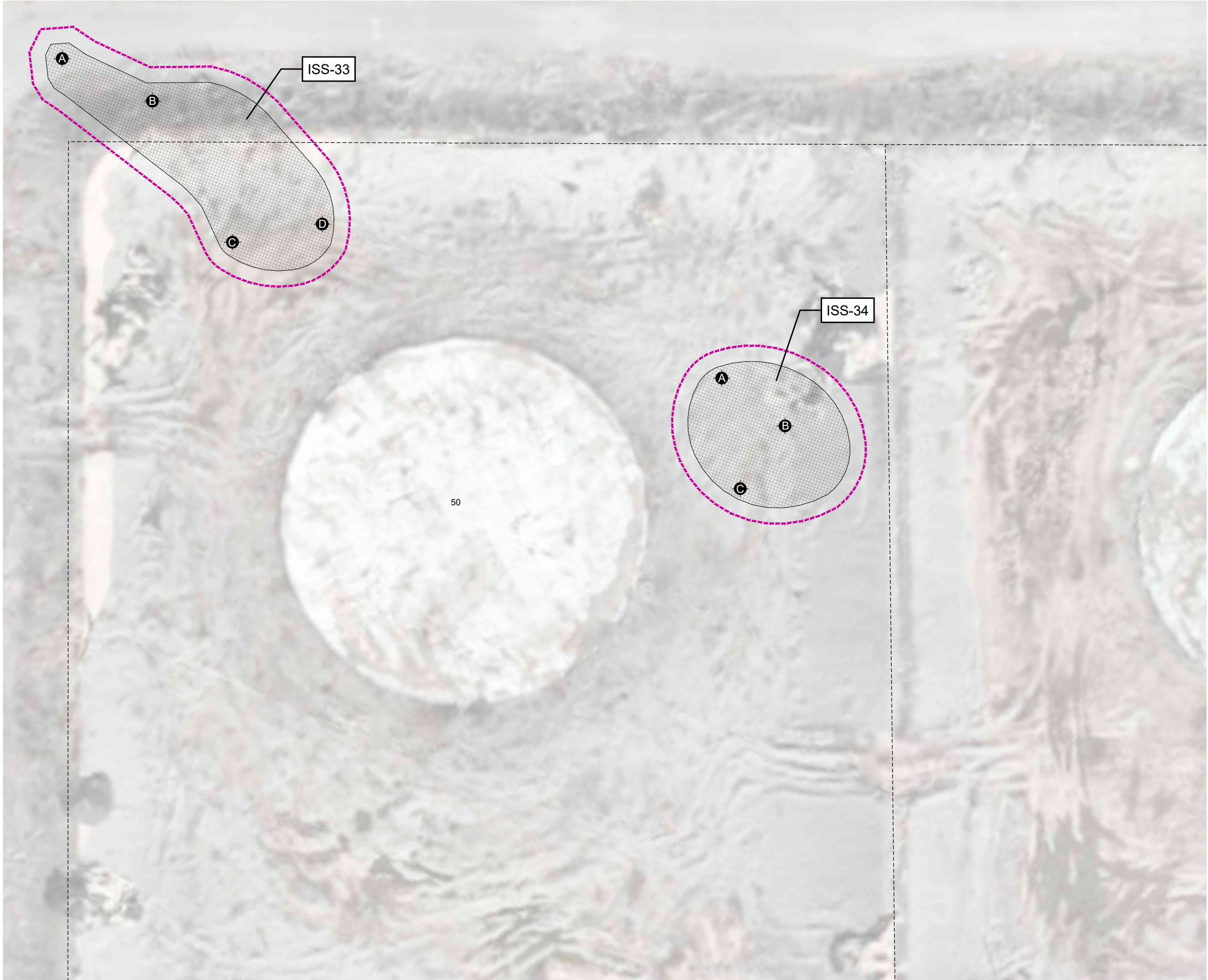
- NOTES**
1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
 2. AERIAL IMAGERY SOURCE: NEARMAP, APRIL 9, 2025

**HALEY
ALDRICH** FORMER PORT MOBIL TERMINAL
STATEN ISLAND, NEW YORK

**AST-12 OVERBURDEN SOIL
SAMPLING LOCATION PLAN**

JULY 2025

FIGURE 5

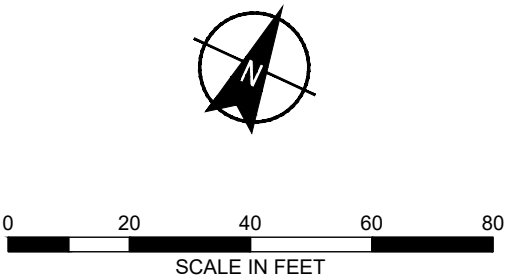


LEGEND

- CONTAINMENT BERM
- APPROXIMATE EXTENT OF LNAPL
- PROPOSED ISS AREAS AND EXCAVATION TO 4' BGS
- ISS-33 SOIL REUSE GRID IDENTIFICATION
- BORING LOCATION / COMPOSITE POINT

NOTES

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. AERIAL IMAGERY SOURCE: NEARMAP, APRIL 9, 2025



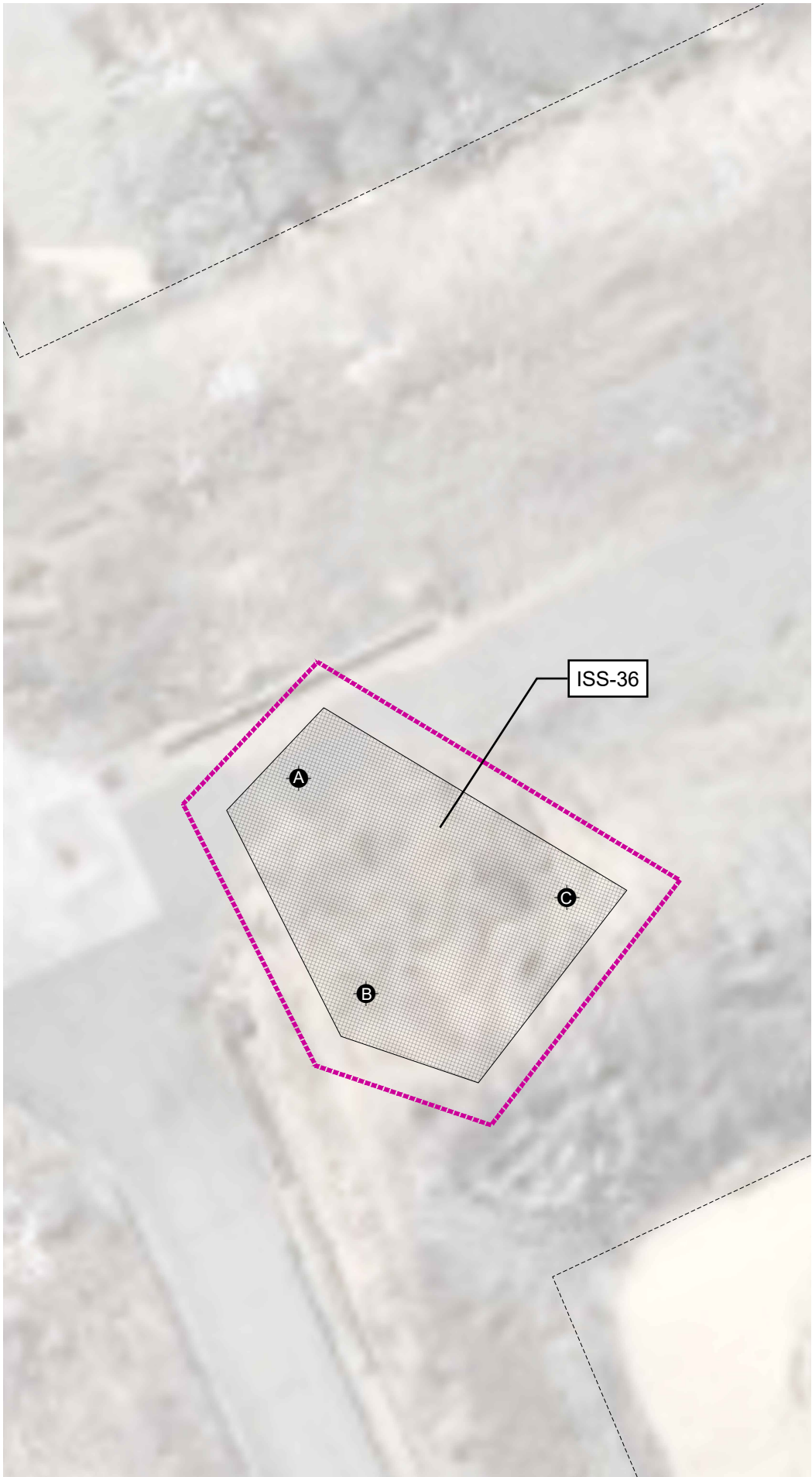
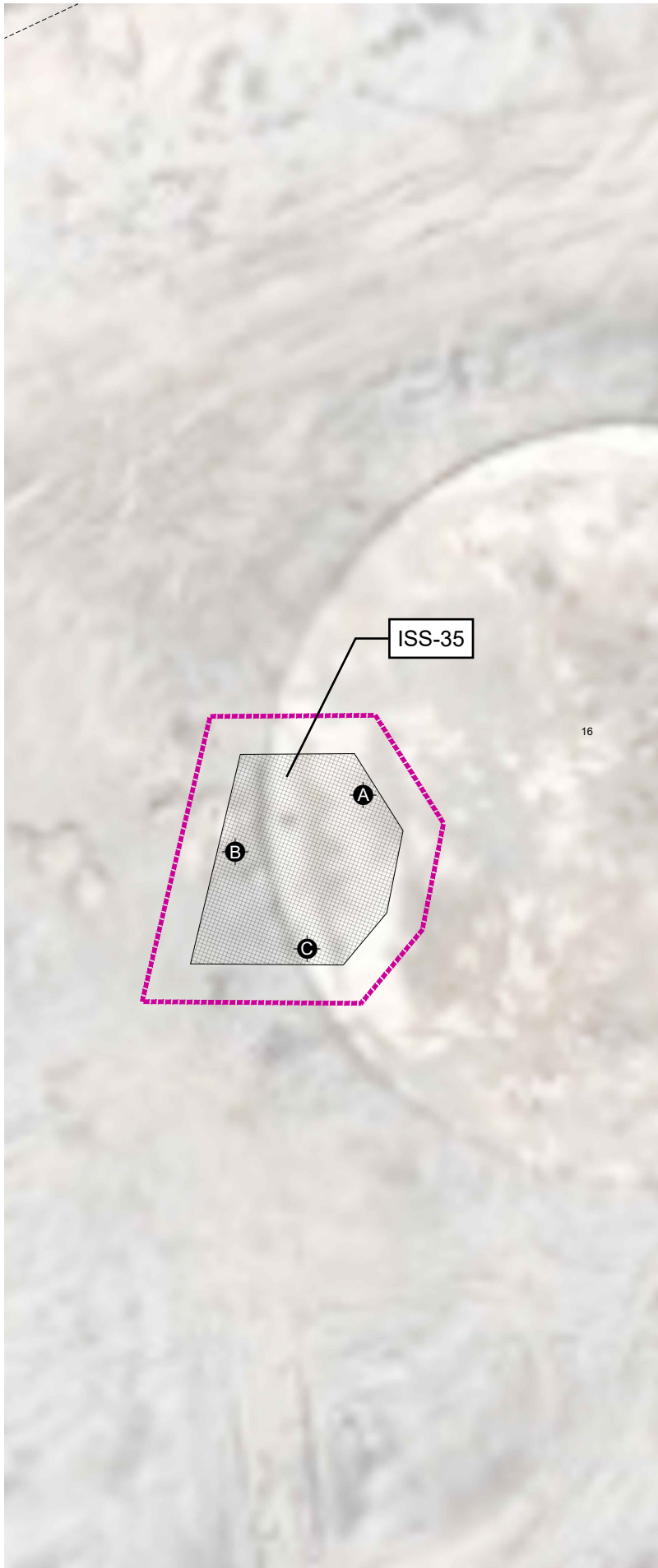
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FORMER PORT MOBIL TERMINAL
STATEN ISLAND, NEW YORK

AST-50A&B OVERBURDEN SOIL
SAMPLING LOCATION PLAN

JULY 2025

FIGURE 6

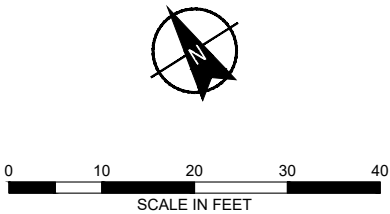


LEGEND

- CONTAINMENT BERM
- APPROXIMATE EXTENT OF LNAPL
- PROPOSED ISS AREAS AND EXCAVATION TO 4' BGS
- ISS-35 SOIL REUSE GRID IDENTIFICATION
- BORING LOCATION / COMPOSITE POINT

NOTES

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. AERIAL IMAGERY SOURCE: NEARMAP, APRIL 9, 2025



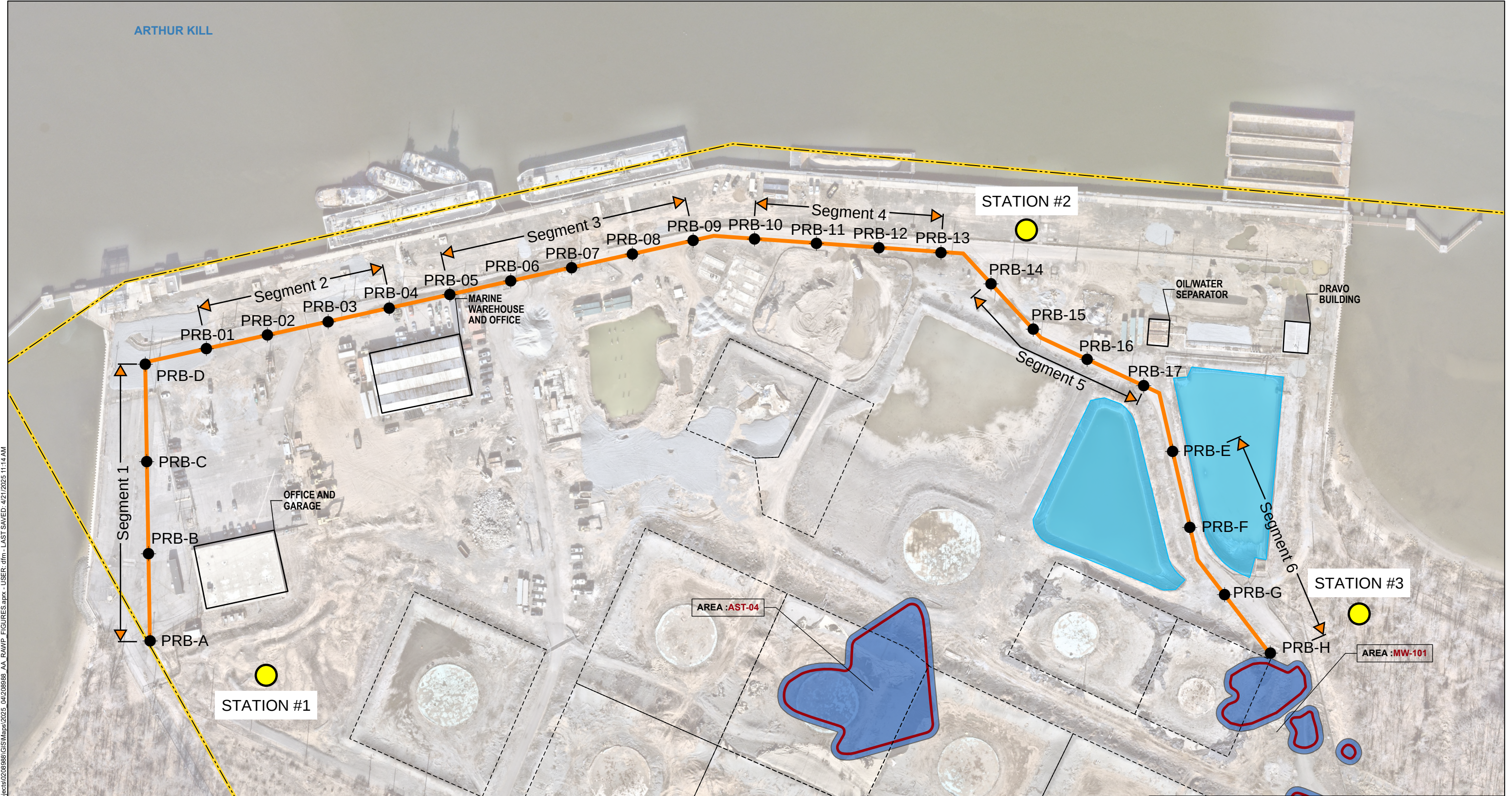
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FORMER PORT MOBIL TERMINAL
STATEN ISLAND, NEWYORK

MW-AST16A & UST02 OVERBURDEN
SOIL SAMPLING LOCATION PLAN

JULY 2025

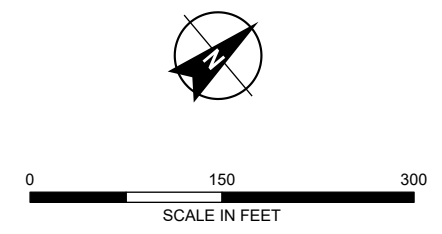
FIGURE 7



LEGEND

- BORING LOCATION / COMPOSITE POINT
- CONTAINMENT BERM
- PERMEABLE REACTIVE BARRIER (PRB) WALL
- APPROXIMATE EXTENT OF LNAPL
- STRUCTURES
- SURFACE IMPOUNDMENT
- PROJECT SITE BOUNDARY
- ISS AREA
- AIR MONITORING STATION

- NOTES**
 - ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
 - PROTECTION OF GROUNDWATER EXCEEDANCES ARE SHOWN FOR THE VADOSE ZONE ONLY
 - AERIAL IMAGERY SOURCE: NEARMAP, APRIL 9, 2025



HALEY ALDRICH

FORMER PORT MOBIL TERMINAL
STATEN ISLAND, NEW YORK

PRB WALL SOIL SAMPLING LOCATION
PLAN AND CAMP LOCATIONS

APRIL 2025

FIGURE 8

GIS FILE PATH: \\haleyaldrich.com\share\CF\Projects\02089888\GIS\Maps\2025_04\208988_AA_RAMP_FIGURES.aprx - USER: dfm - LAST SAVED: 4/21/2025 11:14 AM

ATTACHMENT B
Analytical Laboratory Report

ANALYTICAL REPORT

PREPARED FOR

Attn: Sarah Commisso
Haley & Aldrich Inc
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JOB DESCRIPTION

Former Port Mobil

JOB NUMBER

460-348810-1

Eurofins Edison

Job Notes

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Authorization



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Definitions/Glossary

Client: Haley & Aldrich Inc
Project/Site: Former Port Mobil

Job ID: 460-348810-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
J	Indicates an estimated value.
U	Analyzed for but not detected.

GC/MS Semi VOA

Qualifier	Qualifier Description
*	Duplicate RPD exceeds control limits
*	MS or MSD is outside acceptance limits.
E	Compound concentration exceeds the upper level of the calibration range of the instrument for that specific analysis.
J	Indicates an estimated value.
U	Analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
*	MS or MSD is outside acceptance limits.
U	Analyzed for but not detected.

LCMS

Qualifier	Qualifier Description
*	Isotope Dilution analyte is outside acceptance limits.
J	Indicates an estimated value.
U	Analyzed for but not detected.

Metals

Qualifier	Qualifier Description
*	Duplicate analysis not within control limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
J	Sample result is greater than the MDL but below the CRDL
N	Spiked sample recovery is not within control limits.
U	Indicates analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
*	Duplicate analysis not within control limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)

Definitions/Glossary

Client: Haley & Aldrich Inc
Project/Site: Former Port Mobil

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Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Haley & Aldrich Inc
Project: Former Port Mobil

Job ID: 460-348810-1

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Job Narrative 460-348810-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt

The samples were received on 4/14/2026 4:45 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 0.9°C and 1.2°C.

Method 8260D - Volatile Organic Compounds by GC/MS

Samples AST04-ISS11_A (460-348810-1), AST04-ISS11_B (460-348810-2), AST04-ISS11_C (460-348810-3), AST04-ISS12_A (460-348810-4), AST04-ISS12_B (460-348810-5), AST04-ISS12_C (460-348810-6), AST04-ISS12_D (460-348810-7), AST04-ISS13_A (460-348810-8), AST04-ISS13_B (460-348810-9), AST04-ISS13_C (460-348810-10), AST04-ISS14_A (460-348810-11), AST04-ISS14_B (460-348810-12), AST04-ISS14_C (460-348810-13) and AST04-ISS14_D (460-348810-14) were analyzed for Volatile Organic Compounds by GC/MS. The samples were prepared on 4/15/2026 and analyzed on 4/17/2026 and 4/19/2026.

The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 460-1102402 recovered outside control limits for the following analytes: Methylene Chloride, Methyl tert-butyl ether and Trichloroethene. These analytes were biased low in the LCS/LCSD and were not detected in the associated samples; therefore, the data have been reported.

The following samples were diluted to bring the concentration of target analytes within the calibration range: AST04-ISS11_A (460-348810-1) and AST04-ISS11_B (460-348810-2). Elevated reporting limits (RLs) are provided.

The continuing calibration verification (CCV) analyzed in batch 460-1102402 was outside the method criteria for the following analytes: Carbon disulfide and Methylene Chloride (biased low). A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analytes is considered estimated.

The continuing calibration verification (CCV) analyzed in batch 460-1101958 was outside the method criteria for the following analyte(s): 2-Butanone (MEK) (biased low); Chloromethane, Dichlorodifluoromethane and Methyl acetate (biased high). A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated. 2-Butanone (MEK) was detected in the associated samples. The following samples are impacted: AST04-ISS13_A (460-348810-8), AST04-ISS13_B (460-348810-9), AST04-ISS13_C (460-348810-10), AST04-ISS14_A (460-348810-11) and (CCVIS 460-1101958/1).

The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 460-1101958 recovered outside control limits for the following analytes: Chloromethane and Methyl acetate. These analytes were biased high in the LCS/LCSD and were not detected in the associated samples; therefore, the data have been reported.

The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 460-1102111 recovered outside control limits for the following analytes: 1,1-Dichloroethane, 1,2-Dichloropropane, Chloromethane and Methyl acetate. These analytes were biased high in the LCS/LCSD and were not detected in the associated samples; therefore, the data have been reported.

The continuing calibration verification (CCV) associated with batch 460-1102111 recovered above the upper control limit for 1,1-Dichloroethane, 1,2-Dichloropropane, Carbon disulfide, Chloromethane, Isopropylbenzene and Methyl acetate. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated

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Case Narrative

Client: Haley & Aldrich Inc
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samples are: AST04-ISS11_C (460-348810-3), AST04-ISS12_B (460-348810-5), AST04-ISS12_C (460-348810-6), AST04-ISS14_B (460-348810-12), AST04-ISS14_C (460-348810-13) and (CCVIS 460-1102111/1).

Method 8270E - Semivolatile Organic Compounds (GC/MS)

Samples AST04-ISS11_0-5 (460-348810-15), AST04-ISS12_0-6 (460-348810-16), AST04-ISS13_0-6 (460-348810-17) and AST04-ISS14_0-7 (460-348810-18) were analyzed for Semivolatile Organic Compounds (GC/MS). The samples were prepared on 4/15/2026 and analyzed on 4/16/2026.

Method 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Samples AST04-ISS11_0-5 (460-348810-15), AST04-ISS12_0-6 (460-348810-16), AST04-ISS13_0-6 (460-348810-17) and AST04-ISS14_0-7 (460-348810-18) were analyzed for Polychlorinated Biphenyls (PCBs) by Gas Chromatography. The samples were prepared on 4/16/2026 and analyzed on 4/18/2026.

Method 8081B - Organochlorine Pesticides (GC)

Samples AST04-ISS11_0-5 (460-348810-15), AST04-ISS12_0-6 (460-348810-16), AST04-ISS13_0-6 (460-348810-17) and AST04-ISS14_0-7 (460-348810-18) were analyzed for Organochlorine Pesticides (GC). The samples were prepared on 4/16/2026 and analyzed on 4/17/2026.

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 460-1101787 and analytical batch 460-1101966 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) recovery is within acceptance limits. (460-348801-B-1-F MS) and (460-348801-B-1-G MSD).

Method 1633A - Per- and Polyfluoroalkyl Substances by LC/MS/MS, 1633A

Samples AST04-ISS11_0-5 (460-348810-15), AST04-ISS12_0-6 (460-348810-16), AST04-ISS13_0-6 (460-348810-17) and AST04-ISS14_0-7 (460-348810-18) were analyzed for Per- and Polyfluoroalkyl Substances by LC/MS/MS, 1633A. The samples were prepared on 4/16/2026 and analyzed on 4/18/2026 and 4/20/2026.

The labeled isotopes 13C2 4:2 FTS are outside QC acceptance limits. Since the recovery in sample AST04-ISS12_0-6 (460-348810-16) is less than 350%, the data is reported.

Method 6020B - Metals (ICP/MS)

Samples AST04-ISS11_0-5 (460-348810-15), AST04-ISS12_0-6 (460-348810-16), AST04-ISS13_0-6 (460-348810-17) and AST04-ISS14_0-7 (460-348810-18) were analyzed for Metals (ICP/MS). The samples were prepared on 4/16/2026 and analyzed on 4/17/2026.

Method 7471B - Mercury (CVAA)

Samples AST04-ISS11_0-5 (460-348810-15), AST04-ISS12_0-6 (460-348810-16), AST04-ISS13_0-6 (460-348810-17) and AST04-ISS14_0-7 (460-348810-18) were analyzed for Mercury (CVAA). The samples were prepared and analyzed on 4/20/2026.

Method Moisture - Percent Moisture

Samples AST04-ISS11_A (460-348810-1), AST04-ISS11_B (460-348810-2), AST04-ISS11_C (460-348810-3), AST04-ISS12_A (460-348810-4), AST04-ISS12_B (460-348810-5), AST04-ISS12_C (460-348810-6), AST04-ISS12_D (460-348810-7), AST04-ISS13_A (460-348810-8), AST04-ISS13_B (460-348810-9), AST04-ISS13_C (460-348810-10), AST04-ISS14_A (460-348810-11), AST04-ISS14_B (460-348810-12), AST04-ISS14_C (460-348810-13), AST04-ISS14_D (460-348810-14), AST04-ISS11_0-5 (460-348810-15), AST04-ISS12_0-6 (460-348810-16), AST04-ISS13_0-6 (460-348810-17) and AST04-ISS14_0-7 (460-348810-18) were analyzed for Percent Moisture. The samples were analyzed on 4/15/2026.

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Detection Summary

Client: Haley & Aldrich Inc
Project/Site: Former Port Mobil

Job ID: 460-348810-1

Client Sample ID: AST04-ISS11_A

Lab Sample ID: 460-348810-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	0.057	J	0.083	0.019	mg/Kg	50	✱		8260D	Total/NA
Benzene	0.26		0.083	0.017	mg/Kg	50	✱		8260D	Total/NA
Ethylbenzene	1.3		0.083	0.025	mg/Kg	50	✱		8260D	Total/NA
Isopropylbenzene	0.48		0.083	0.027	mg/Kg	50	✱		8260D	Total/NA
Methylcyclohexane	3.1		0.083	0.060	mg/Kg	50	✱		8260D	Total/NA
m-Xylene & p-Xylene	0.27		0.083	0.023	mg/Kg	50	✱		8260D	Total/NA
n-Butylbenzene	0.46		0.083	0.022	mg/Kg	50	✱		8260D	Total/NA
N-Propylbenzene	1.2		0.083	0.024	mg/Kg	50	✱		8260D	Total/NA
o-Xylene	0.046	J	0.083	0.027	mg/Kg	50	✱		8260D	Total/NA
sec-Butylbenzene	0.62		0.083	0.026	mg/Kg	50	✱		8260D	Total/NA
Toluene	0.055	J	0.083	0.021	mg/Kg	50	✱		8260D	Total/NA
Xylenes, Total	0.32		0.17	0.023	mg/Kg	50	✱		8260D	Total/NA

Client Sample ID: AST04-ISS11_B

Lab Sample ID: 460-348810-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Isopropylbenzene	0.13		0.055	0.018	mg/Kg	50	✱		8260D	Total/NA
Methylcyclohexane	0.26		0.055	0.040	mg/Kg	50	✱		8260D	Total/NA
n-Butylbenzene	1.3		0.055	0.015	mg/Kg	50	✱		8260D	Total/NA
N-Propylbenzene	0.36		0.055	0.016	mg/Kg	50	✱		8260D	Total/NA
sec-Butylbenzene	0.73		0.055	0.017	mg/Kg	50	✱		8260D	Total/NA
tert-Butylbenzene	0.034	J	0.055	0.015	mg/Kg	50	✱		8260D	Total/NA

Client Sample ID: AST04-ISS11_C

Lab Sample ID: 460-348810-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
2-Butanone (MEK)	0.0021	J	0.0036	0.00026	mg/Kg	1	✱		8260D	Total/NA
Acetone	0.012		0.0043	0.0041	mg/Kg	1	✱		8260D	Total/NA
Carbon disulfide	0.00063	J	0.00071	0.00019	mg/Kg	1	✱		8260D	Total/NA
Xylenes, Total	0.00023	J	0.0014	0.00012	mg/Kg	1	✱		8260D	Total/NA

Client Sample ID: AST04-ISS12_A

Lab Sample ID: 460-348810-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	0.011		0.0048	0.0046	mg/Kg	1	✱		8260D	Total/NA

Client Sample ID: AST04-ISS12_B

Lab Sample ID: 460-348810-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
2-Butanone (MEK)	0.012		0.0037	0.00028	mg/Kg	1	✱		8260D	Total/NA
Acetone	0.13		0.0045	0.0043	mg/Kg	1	✱		8260D	Total/NA
Carbon disulfide	0.0011		0.00075	0.00020	mg/Kg	1	✱		8260D	Total/NA

Client Sample ID: AST04-ISS12_C

Lab Sample ID: 460-348810-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
2-Butanone (MEK)	0.0062		0.0038	0.00028	mg/Kg	1	✱		8260D	Total/NA
Acetone	0.051		0.0045	0.0043	mg/Kg	1	✱		8260D	Total/NA
Carbon disulfide	0.0016		0.00076	0.00020	mg/Kg	1	✱		8260D	Total/NA

Client Sample ID: AST04-ISS12_D

Lab Sample ID: 460-348810-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	0.012		0.0045	0.0043	mg/Kg	1	✱		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

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Detection Summary

Client: Haley & Aldrich Inc
Project/Site: Former Port Mobil

Job ID: 460-348810-1

Client Sample ID: AST04-ISS13_A

Lab Sample ID: 460-348810-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
2-Butanone (MEK)	0.0046		0.0042	0.00031	mg/Kg	1	✱		8260D	Total/NA
Acetone	0.028		0.0050	0.0048	mg/Kg	1	✱		8260D	Total/NA
Carbon disulfide	0.0012		0.00084	0.00022	mg/Kg	1	✱		8260D	Total/NA

Client Sample ID: AST04-ISS13_B

Lab Sample ID: 460-348810-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	0.010		0.00070	0.00017	mg/Kg	1	✱		8260D	Total/NA
1,3,5-Trimethylbenzene	0.0035		0.00070	0.00022	mg/Kg	1	✱		8260D	Total/NA
2-Butanone (MEK)	0.0039		0.0035	0.00026	mg/Kg	1	✱		8260D	Total/NA
Acetone	0.032		0.0042	0.0040	mg/Kg	1	✱		8260D	Total/NA
Carbon disulfide	0.00085		0.00070	0.00019	mg/Kg	1	✱		8260D	Total/NA
Ethylbenzene	0.0042		0.00070	0.00033	mg/Kg	1	✱		8260D	Total/NA
Isopropylbenzene	0.00062	J	0.00070	0.00020	mg/Kg	1	✱		8260D	Total/NA
Methylcyclohexane	0.0028		0.00070	0.00035	mg/Kg	1	✱		8260D	Total/NA
m-Xylene & p-Xylene	0.0079		0.00070	0.00030	mg/Kg	1	✱		8260D	Total/NA
n-Butylbenzene	0.00060	J	0.00070	0.00021	mg/Kg	1	✱		8260D	Total/NA
N-Propylbenzene	0.0017		0.00070	0.00032	mg/Kg	1	✱		8260D	Total/NA
o-Xylene	0.0068		0.00070	0.00032	mg/Kg	1	✱		8260D	Total/NA
Toluene	0.0019		0.00070	0.00016	mg/Kg	1	✱		8260D	Total/NA
Xylenes, Total	0.015		0.0014	0.00012	mg/Kg	1	✱		8260D	Total/NA

Client Sample ID: AST04-ISS13_C

Lab Sample ID: 460-348810-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	0.0016		0.00070	0.00017	mg/Kg	1	✱		8260D	Total/NA
1,3,5-Trimethylbenzene	0.00084		0.00070	0.00022	mg/Kg	1	✱		8260D	Total/NA
2-Butanone (MEK)	0.0068		0.0035	0.00026	mg/Kg	1	✱		8260D	Total/NA
Acetone	0.024		0.0042	0.0040	mg/Kg	1	✱		8260D	Total/NA
Benzene	0.040		0.00070	0.00040	mg/Kg	1	✱		8260D	Total/NA
Ethylbenzene	0.0039		0.00070	0.00033	mg/Kg	1	✱		8260D	Total/NA
Isopropylbenzene	0.00082		0.00070	0.00020	mg/Kg	1	✱		8260D	Total/NA
Methylcyclohexane	0.011		0.00070	0.00035	mg/Kg	1	✱		8260D	Total/NA
m-Xylene & p-Xylene	0.0029		0.00070	0.00030	mg/Kg	1	✱		8260D	Total/NA
n-Butylbenzene	0.00038	J	0.00070	0.00021	mg/Kg	1	✱		8260D	Total/NA
N-Propylbenzene	0.0012		0.00070	0.00031	mg/Kg	1	✱		8260D	Total/NA
o-Xylene	0.00045	J	0.00070	0.00032	mg/Kg	1	✱		8260D	Total/NA
sec-Butylbenzene	0.00052	J	0.00070	0.00020	mg/Kg	1	✱		8260D	Total/NA
Toluene	0.00075		0.00070	0.00016	mg/Kg	1	✱		8260D	Total/NA
Xylenes, Total	0.0033		0.0014	0.00012	mg/Kg	1	✱		8260D	Total/NA

Client Sample ID: AST04-ISS14_A

Lab Sample ID: 460-348810-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
2-Butanone (MEK)	0.0083		0.0045	0.00033	mg/Kg	1	✱		8260D	Total/NA
Acetone	0.011		0.0054	0.0051	mg/Kg	1	✱		8260D	Total/NA
Benzene	0.00079	J	0.00089	0.00051	mg/Kg	1	✱		8260D	Total/NA
Methylcyclohexane	0.0014		0.00089	0.00045	mg/Kg	1	✱		8260D	Total/NA

Client Sample ID: AST04-ISS14_B

Lab Sample ID: 460-348810-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	0.0013		0.00079	0.00019	mg/Kg	1	✱		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

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Detection Summary

Client: Haley & Aldrich Inc
Project/Site: Former Port Mobil

Job ID: 460-348810-1

Client Sample ID: AST04-ISS14_B (Continued)

Lab Sample ID: 460-348810-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,3,5-Trimethylbenzene	0.0017		0.00079	0.00025	mg/Kg	1	✱	8260D	Total/NA
2-Butanone (MEK)	0.0033	J	0.0039	0.00029	mg/Kg	1	✱	8260D	Total/NA
Acetone	0.015		0.0047	0.0045	mg/Kg	1	✱	8260D	Total/NA
Benzene	0.061		0.00079	0.00045	mg/Kg	1	✱	8260D	Total/NA
Ethylbenzene	0.013		0.00079	0.00037	mg/Kg	1	✱	8260D	Total/NA
Isopropylbenzene	0.0018		0.00079	0.00022	mg/Kg	1	✱	8260D	Total/NA
Methylcyclohexane	0.013		0.00079	0.00039	mg/Kg	1	✱	8260D	Total/NA
m-Xylene & p-Xylene	0.0080		0.00079	0.00033	mg/Kg	1	✱	8260D	Total/NA
n-Butylbenzene	0.0016		0.00079	0.00023	mg/Kg	1	✱	8260D	Total/NA
N-Propylbenzene	0.0040		0.00079	0.00035	mg/Kg	1	✱	8260D	Total/NA
sec-Butylbenzene	0.0011		0.00079	0.00023	mg/Kg	1	✱	8260D	Total/NA
Toluene	0.0028		0.00079	0.00018	mg/Kg	1	✱	8260D	Total/NA
Xylenes, Total	0.0080		0.0016	0.00014	mg/Kg	1	✱	8260D	Total/NA

Client Sample ID: AST04-ISS14_C

Lab Sample ID: 460-348810-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	0.0027	J	0.0038	0.00028	mg/Kg	1	✱	8260D	Total/NA
Acetone	0.0099		0.0045	0.0043	mg/Kg	1	✱	8260D	Total/NA
Benzene	0.018		0.00076	0.00043	mg/Kg	1	✱	8260D	Total/NA
Ethylbenzene	0.0013		0.00076	0.00035	mg/Kg	1	✱	8260D	Total/NA
Isopropylbenzene	0.00043	J	0.00076	0.00022	mg/Kg	1	✱	8260D	Total/NA
Methylcyclohexane	0.0031		0.00076	0.00038	mg/Kg	1	✱	8260D	Total/NA
Methylene Chloride	0.0012	J	0.0015	0.00087	mg/Kg	1	✱	8260D	Total/NA
m-Xylene & p-Xylene	0.00059	J	0.00076	0.00032	mg/Kg	1	✱	8260D	Total/NA
n-Butylbenzene	0.00030	J	0.00076	0.00022	mg/Kg	1	✱	8260D	Total/NA
N-Propylbenzene	0.00084		0.00076	0.00034	mg/Kg	1	✱	8260D	Total/NA
sec-Butylbenzene	0.00040	J	0.00076	0.00022	mg/Kg	1	✱	8260D	Total/NA
Toluene	0.00067	J	0.00076	0.00018	mg/Kg	1	✱	8260D	Total/NA
Xylenes, Total	0.00059	J	0.0015	0.00013	mg/Kg	1	✱	8260D	Total/NA

Client Sample ID: AST04-ISS14_D

Lab Sample ID: 460-348810-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	0.0031	J	0.0041	0.00030	mg/Kg	1	✱	8260D	Total/NA
Acetone	0.025		0.0049	0.0047	mg/Kg	1	✱	8260D	Total/NA

Client Sample ID: AST04-ISS11_0-5

Lab Sample ID: 460-348810-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.027	J	0.39	0.0066	mg/Kg	1	✱	8270E	Total/NA
Perfluorononanoic acid (PFNA)	0.11	J	0.19	0.097	ug/Kg	1	✱	1633A	Total/NA
Perfluoroundecanoic acid (PFUnA)	0.99		0.19	0.097	ug/Kg	1	✱	1633A	Total/NA
Perfluorotridecanoic acid (PFTTrDA)	0.50		0.19	0.097	ug/Kg	1	✱	1633A	Total/NA
Aluminum	9100		18.9	5.2	mg/Kg	1	✱	6020B	Total/NA
Antimony	0.30	J	0.94	0.057	mg/Kg	1	✱	6020B	Total/NA
Arsenic	3.9		0.94	0.097	mg/Kg	1	✱	6020B	Total/NA
Barium	58.3		1.9	0.14	mg/Kg	1	✱	6020B	Total/NA
Beryllium	0.55		0.38	0.021	mg/Kg	1	✱	6020B	Total/NA
Cadmium	0.67		0.47	0.11	mg/Kg	1	✱	6020B	Total/NA
Calcium	1210		94.3	9.2	mg/Kg	1	✱	6020B	Total/NA
Chromium	16.3		1.9	0.28	mg/Kg	1	✱	6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Edison

Detection Summary

Client: Haley & Aldrich Inc
Project/Site: Former Port Mobil

Job ID: 460-348810-1

Client Sample ID: AST04-ISS11_0-5 (Continued)

Lab Sample ID: 460-348810-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	12.8		0.94	0.14	mg/Kg	1	✱	6020B	Total/NA
Copper	28.3		1.9	0.35	mg/Kg	1	✱	6020B	Total/NA
Iron	17600		56.6	7.2	mg/Kg	1	✱	6020B	Total/NA
Lead	144		0.57	0.19	mg/Kg	1	✱	6020B	Total/NA
Magnesium	2400		94.3	9.6	mg/Kg	1	✱	6020B	Total/NA
Manganese	237		3.8	0.38	mg/Kg	1	✱	6020B	Total/NA
Nickel	16.7		1.9	0.17	mg/Kg	1	✱	6020B	Total/NA
Potassium	1090		94.3	5.8	mg/Kg	1	✱	6020B	Total/NA
Selenium	0.23	J	1.2	0.12	mg/Kg	1	✱	6020B	Total/NA
Sodium	90.7	J	94.3	16.3	mg/Kg	1	✱	6020B	Total/NA
Thallium	0.097	J	0.38	0.039	mg/Kg	1	✱	6020B	Total/NA
Vanadium	20.2		1.9	0.19	mg/Kg	1	✱	6020B	Total/NA
Zinc	121		7.5	1.0	mg/Kg	1	✱	6020B	Total/NA
Mercury	0.011	J	0.018	0.0064	mg/Kg	1	✱	7471B	Total/NA

Client Sample ID: AST04-ISS12_0-6

Lab Sample ID: 460-348810-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid (PFOA)	0.064	J	0.20	0.060	ug/Kg	1	✱	1633A	Total/NA
Perfluorononanoic acid (PFNA)	0.46		0.20	0.10	ug/Kg	1	✱	1633A	Total/NA
Perfluoroundecanoic acid (PFUnA)	1.09		0.20	0.10	ug/Kg	1	✱	1633A	Total/NA
Aluminum	6860		23.6	6.5	mg/Kg	1	✱	6020B	Total/NA
Antimony	0.20	J	1.2	0.071	mg/Kg	1	✱	6020B	Total/NA
Arsenic	6.6		1.2	0.12	mg/Kg	1	✱	6020B	Total/NA
Barium	41.6		2.4	0.17	mg/Kg	1	✱	6020B	Total/NA
Beryllium	0.60		0.47	0.026	mg/Kg	1	✱	6020B	Total/NA
Cadmium	0.13	J	0.59	0.13	mg/Kg	1	✱	6020B	Total/NA
Calcium	1250		118	11.5	mg/Kg	1	✱	6020B	Total/NA
Chromium	15.9		2.4	0.35	mg/Kg	1	✱	6020B	Total/NA
Cobalt	9.0		1.2	0.17	mg/Kg	1	✱	6020B	Total/NA
Copper	20.0		2.4	0.43	mg/Kg	1	✱	6020B	Total/NA
Iron	22700		70.8	9.0	mg/Kg	1	✱	6020B	Total/NA
Lead	22.2		0.71	0.24	mg/Kg	1	✱	6020B	Total/NA
Magnesium	1860		118	12.0	mg/Kg	1	✱	6020B	Total/NA
Manganese	292		4.7	0.48	mg/Kg	1	✱	6020B	Total/NA
Nickel	12.0		2.4	0.21	mg/Kg	1	✱	6020B	Total/NA
Potassium	731		118	7.3	mg/Kg	1	✱	6020B	Total/NA
Selenium	0.42	J	1.5	0.15	mg/Kg	1	✱	6020B	Total/NA
Sodium	72.9	J	118	20.4	mg/Kg	1	✱	6020B	Total/NA
Thallium	0.093	J	0.47	0.048	mg/Kg	1	✱	6020B	Total/NA
Vanadium	28.4		2.4	0.24	mg/Kg	1	✱	6020B	Total/NA
Zinc	41.8		9.4	1.3	mg/Kg	1	✱	6020B	Total/NA
Mercury	0.017	J	0.021	0.0074	mg/Kg	1	✱	7471B	Total/NA

Client Sample ID: AST04-ISS13_0-6

Lab Sample ID: 460-348810-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid (PFOA)	0.064	J	0.19	0.057	ug/Kg	1	✱	1633A	Total/NA
Perfluorononanoic acid (PFNA)	0.14	J	0.19	0.096	ug/Kg	1	✱	1633A	Total/NA
Perfluoroundecanoic acid (PFUnA)	0.56		0.19	0.096	ug/Kg	1	✱	1633A	Total/NA
Perfluorotridecanoic acid (PFTTrDA)	1.94		0.19	0.096	ug/Kg	1	✱	1633A	Total/NA
Aluminum	2700		19.2	5.3	mg/Kg	1	✱	6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Edison

Detection Summary

Client: Haley & Aldrich Inc
Project/Site: Former Port Mobil

Job ID: 460-348810-1

Client Sample ID: AST04-ISS13_0-6 (Continued)

Lab Sample ID: 460-348810-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Antimony	0.83	J	0.96	0.058	mg/Kg	1	✱		6020B	Total/NA
Arsenic	6.3		0.96	0.099	mg/Kg	1	✱		6020B	Total/NA
Barium	20.5		1.9	0.14	mg/Kg	1	✱		6020B	Total/NA
Beryllium	0.27	J	0.38	0.021	mg/Kg	1	✱		6020B	Total/NA
Cadmium	0.59		0.48	0.11	mg/Kg	1	✱		6020B	Total/NA
Calcium	1480		96.1	9.4	mg/Kg	1	✱		6020B	Total/NA
Chromium	10.5		1.9	0.29	mg/Kg	1	✱		6020B	Total/NA
Cobalt	3.2		0.96	0.14	mg/Kg	1	✱		6020B	Total/NA
Copper	27.4		1.9	0.35	mg/Kg	1	✱		6020B	Total/NA
Iron	12400		57.7	7.4	mg/Kg	1	✱		6020B	Total/NA
Lead	194		0.58	0.19	mg/Kg	1	✱		6020B	Total/NA
Magnesium	1080		96.1	9.8	mg/Kg	1	✱		6020B	Total/NA
Manganese	88.7		3.8	0.39	mg/Kg	1	✱		6020B	Total/NA
Nickel	7.5		1.9	0.17	mg/Kg	1	✱		6020B	Total/NA
Potassium	436		96.1	6.0	mg/Kg	1	✱		6020B	Total/NA
Selenium	0.27	J	1.2	0.12	mg/Kg	1	✱		6020B	Total/NA
Silver	0.11	J	0.38	0.086	mg/Kg	1	✱		6020B	Total/NA
Sodium	59.2	J	96.1	16.6	mg/Kg	1	✱		6020B	Total/NA
Vanadium	14.0		1.9	0.20	mg/Kg	1	✱		6020B	Total/NA
Zinc	110		7.7	1.0	mg/Kg	1	✱		6020B	Total/NA
Mercury	0.018	J	0.019	0.0068	mg/Kg	1	✱		7471B	Total/NA

Client Sample ID: AST04-ISS14_0-7

Lab Sample ID: 460-348810-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Phenanthrene	0.027	J	0.36	0.0061	mg/Kg	1	✱		8270E	Total/NA
Perfluorononanoic acid (PFNA)	10.2		0.19	0.096	ug/Kg	1	✱		1633A	Total/NA
Perfluorodecanoic acid (PFDA)	0.10	J	0.19	0.057	ug/Kg	1	✱		1633A	Total/NA
Perfluoroundecanoic acid (PFUnA)	1.51		0.19	0.096	ug/Kg	1	✱		1633A	Total/NA
Aluminum	7080		17.8	4.9	mg/Kg	1	✱		6020B	Total/NA
Antimony	0.13	J	0.89	0.053	mg/Kg	1	✱		6020B	Total/NA
Arsenic	2.5		0.89	0.092	mg/Kg	1	✱		6020B	Total/NA
Barium	59.8		1.8	0.13	mg/Kg	1	✱		6020B	Total/NA
Beryllium	0.48		0.36	0.020	mg/Kg	1	✱		6020B	Total/NA
Calcium	1230		89.0	8.7	mg/Kg	1	✱		6020B	Total/NA
Chromium	13.8		1.8	0.26	mg/Kg	1	✱		6020B	Total/NA
Cobalt	7.5		0.89	0.13	mg/Kg	1	✱		6020B	Total/NA
Copper	18.4		1.8	0.33	mg/Kg	1	✱		6020B	Total/NA
Iron	16800		53.4	6.8	mg/Kg	1	✱		6020B	Total/NA
Lead	9.7		0.53	0.18	mg/Kg	1	✱		6020B	Total/NA
Magnesium	3920		89.0	9.1	mg/Kg	1	✱		6020B	Total/NA
Manganese	396		3.6	0.36	mg/Kg	1	✱		6020B	Total/NA
Nickel	17.2		1.8	0.16	mg/Kg	1	✱		6020B	Total/NA
Potassium	1300		89.0	5.5	mg/Kg	1	✱		6020B	Total/NA
Sodium	122		89.0	15.4	mg/Kg	1	✱		6020B	Total/NA
Thallium	0.094	J	0.36	0.036	mg/Kg	1	✱		6020B	Total/NA
Vanadium	18.2		1.8	0.18	mg/Kg	1	✱		6020B	Total/NA
Zinc	40.2		7.1	0.97	mg/Kg	1	✱		6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Edison

Client Sample Results

Client: Haley & Aldrich Inc
Project/Site: Former Port Mobil

Job ID: 460-348810-1

Client Sample ID: AST04-ISS11_A

Lab Sample ID: 460-348810-1

Date Collected: 04/14/26 13:32

Matrix: Solid

Date Received: 04/14/26 16:45

Percent Solids: 93.6

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.083	U	0.083	0.023	mg/Kg	✱	04/15/26 17:33	04/19/26 10:49	50
1,1,2,2-Tetrachloroethane	0.083	U	0.083	0.016	mg/Kg	✱	04/15/26 17:33	04/19/26 10:49	50
1,1,2-Trichloro-1,2,2-trifluoroethane	0.083	U	0.083	0.028	mg/Kg	✱	04/15/26 17:33	04/19/26 10:49	50
1,1,2-Trichloroethane	0.083	U	0.083	0.017	mg/Kg	✱	04/15/26 17:33	04/19/26 10:49	50
1,1-Dichloroethane	0.083	U	0.083	0.020	mg/Kg	✱	04/15/26 17:33	04/19/26 10:49	50
1,1-Dichloroethene	0.083	U	0.083	0.022	mg/Kg	✱	04/15/26 17:33	04/19/26 10:49	50
1,2,3-Trichlorobenzene	0.083	U	0.083	0.029	mg/Kg	✱	04/15/26 17:33	04/19/26 10:49	50
1,2,4-Trichlorobenzene	0.083	U	0.083	0.022	mg/Kg	✱	04/15/26 17:33	04/19/26 10:49	50
1,2,4-Trimethylbenzene	0.057	J	0.083	0.019	mg/Kg	✱	04/15/26 17:33	04/19/26 10:49	50
1,2-Dibromo-3-Chloropropane	0.083	U	0.083	0.018	mg/Kg	✱	04/15/26 17:33	04/19/26 10:49	50
1,2-Dichlorobenzene	0.083	U	0.083	0.018	mg/Kg	✱	04/15/26 17:33	04/19/26 10:49	50
1,2-Dichloroethane	0.083	U	0.083	0.021	mg/Kg	✱	04/15/26 17:33	04/19/26 10:49	50
1,2-Dichloropropane	0.083	U	0.083	0.015	mg/Kg	✱	04/15/26 17:33	04/19/26 10:49	50
1,3,5-Trimethylbenzene	0.083	U	0.083	0.021	mg/Kg	✱	04/15/26 17:33	04/19/26 10:49	50
1,3-Dichlorobenzene	0.083	U	0.083	0.027	mg/Kg	✱	04/15/26 17:33	04/19/26 10:49	50
1,4-Dichlorobenzene	0.083	U	0.083	0.028	mg/Kg	✱	04/15/26 17:33	04/19/26 10:49	50
2-Butanone (MEK)	0.42	U	0.42	0.18	mg/Kg	✱	04/15/26 17:33	04/19/26 10:49	50
2-Hexanone	0.42	U	0.42	0.094	mg/Kg	✱	04/15/26 17:33	04/19/26 10:49	50
4-Methyl-2-pentanone (MIBK)	0.42	U	0.42	0.11	mg/Kg	✱	04/15/26 17:33	04/19/26 10:49	50
Acetone	0.42	U	0.42	0.37	mg/Kg	✱	04/15/26 17:33	04/19/26 10:49	50
Benzene	0.26		0.083	0.017	mg/Kg	✱	04/15/26 17:33	04/19/26 10:49	50
Bromoform	0.083	U	0.083	0.015	mg/Kg	✱	04/15/26 17:33	04/19/26 10:49	50
Bromomethane	0.083	U	0.083	0.046	mg/Kg	✱	04/15/26 17:33	04/19/26 10:49	50
Carbon disulfide	0.083	U	0.083	0.056	mg/Kg	✱	04/15/26 17:33	04/19/26 10:49	50
Carbon tetrachloride	0.083	U	0.083	0.027	mg/Kg	✱	04/15/26 17:33	04/19/26 10:49	50
Chlorobenzene	0.083	U	0.083	0.020	mg/Kg	✱	04/15/26 17:33	04/19/26 10:49	50
Chlorobromomethane	0.083	U	0.083	0.025	mg/Kg	✱	04/15/26 17:33	04/19/26 10:49	50
Chlorodibromomethane	0.083	U	0.083	0.018	mg/Kg	✱	04/15/26 17:33	04/19/26 10:49	50
Chloroethane	0.083	U	0.083	0.031	mg/Kg	✱	04/15/26 17:33	04/19/26 10:49	50
Chloroform	0.083	U	0.083	0.018	mg/Kg	✱	04/15/26 17:33	04/19/26 10:49	50
Chloromethane	0.083	U	0.083	0.033	mg/Kg	✱	04/15/26 17:33	04/19/26 10:49	50
cis-1,2-Dichloroethene	0.083	U	0.083	0.022	mg/Kg	✱	04/15/26 17:33	04/19/26 10:49	50
cis-1,3-Dichloropropene	0.083	U	0.083	0.018	mg/Kg	✱	04/15/26 17:33	04/19/26 10:49	50
Cyclohexane	0.083	U	0.083	0.022	mg/Kg	✱	04/15/26 17:33	04/19/26 10:49	50
Dichlorobromomethane	0.083	U	0.083	0.012	mg/Kg	✱	04/15/26 17:33	04/19/26 10:49	50
Dichlorodifluoromethane	0.083	U	0.083	0.026	mg/Kg	✱	04/15/26 17:33	04/19/26 10:49	50
Ethylbenzene	1.3		0.083	0.025	mg/Kg	✱	04/15/26 17:33	04/19/26 10:49	50
Ethylene Dibromide	0.083	U	0.083	0.016	mg/Kg	✱	04/15/26 17:33	04/19/26 10:49	50
Isopropylbenzene	0.48		0.083	0.027	mg/Kg	✱	04/15/26 17:33	04/19/26 10:49	50
Methyl acetate	0.42	U	0.42	0.065	mg/Kg	✱	04/15/26 17:33	04/19/26 10:49	50
Methyl tert-butyl ether	0.083	U *	0.083	0.018	mg/Kg	✱	04/15/26 17:33	04/19/26 10:49	50
Methylcyclohexane	3.1		0.083	0.060	mg/Kg	✱	04/15/26 17:33	04/19/26 10:49	50
Methylene Chloride	0.083	U *	0.083	0.017	mg/Kg	✱	04/15/26 17:33	04/19/26 10:49	50
m-Xylene & p-Xylene	0.27		0.083	0.023	mg/Kg	✱	04/15/26 17:33	04/19/26 10:49	50
n-Butylbenzene	0.46		0.083	0.022	mg/Kg	✱	04/15/26 17:33	04/19/26 10:49	50
N-Propylbenzene	1.2		0.083	0.024	mg/Kg	✱	04/15/26 17:33	04/19/26 10:49	50
o-Xylene	0.046	J	0.083	0.027	mg/Kg	✱	04/15/26 17:33	04/19/26 10:49	50
sec-Butylbenzene	0.62		0.083	0.026	mg/Kg	✱	04/15/26 17:33	04/19/26 10:49	50
Styrene	0.083	U	0.083	0.014	mg/Kg	✱	04/15/26 17:33	04/19/26 10:49	50

Eurofins Edison

Client Sample Results

Client: Haley & Aldrich Inc
Project/Site: Former Port Mobil

Job ID: 460-348810-1

Client Sample ID: AST04-ISS11_A

Lab Sample ID: 460-348810-1

Date Collected: 04/14/26 13:32

Matrix: Solid

Date Received: 04/14/26 16:45

Percent Solids: 93.6

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	0.083	U	0.083	0.023	mg/Kg	✱	04/15/26 17:33	04/19/26 10:49	50
Tetrachloroethene	0.083	U	0.083	0.030	mg/Kg	✱	04/15/26 17:33	04/19/26 10:49	50
Toluene	0.055	J	0.083	0.021	mg/Kg	✱	04/15/26 17:33	04/19/26 10:49	50
trans-1,2-Dichloroethene	0.083	U	0.083	0.015	mg/Kg	✱	04/15/26 17:33	04/19/26 10:49	50
trans-1,3-Dichloropropene	0.083	U	0.083	0.018	mg/Kg	✱	04/15/26 17:33	04/19/26 10:49	50
Trichloroethene	0.083	U *	0.083	0.018	mg/Kg	✱	04/15/26 17:33	04/19/26 10:49	50
Trichlorofluoromethane	0.083	U	0.083	0.027	mg/Kg	✱	04/15/26 17:33	04/19/26 10:49	50
Vinyl chloride	0.083	U	0.083	0.017	mg/Kg	✱	04/15/26 17:33	04/19/26 10:49	50
Xylenes, Total	0.32		0.17	0.023	mg/Kg	✱	04/15/26 17:33	04/19/26 10:49	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		60 - 150				04/15/26 17:33	04/19/26 10:49	50
4-Bromofluorobenzene	98		70 - 150				04/15/26 17:33	04/19/26 10:49	50
Dibromofluoromethane (Surr)	98		68 - 150				04/15/26 17:33	04/19/26 10:49	50
Toluene-d8 (Surr)	95		64 - 157				04/15/26 17:33	04/19/26 10:49	50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	6.4		1.0	1.0	%			04/15/26 16:45	1
Percent Solids (EPA Moisture)	93.6		1.0	1.0	%			04/15/26 16:45	1

Client Sample ID: AST04-ISS11_B

Lab Sample ID: 460-348810-2

Date Collected: 04/14/26 13:35

Matrix: Solid

Date Received: 04/14/26 16:45

Percent Solids: 96.8

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.055	U	0.055	0.015	mg/Kg	✱	04/15/26 17:33	04/19/26 11:14	50
1,1,2,2-Tetrachloroethane	0.055	U	0.055	0.011	mg/Kg	✱	04/15/26 17:33	04/19/26 11:14	50
1,1,2-Trichloro-1,2,2-trifluoroethane	0.055	U	0.055	0.019	mg/Kg	✱	04/15/26 17:33	04/19/26 11:14	50
1,1,2-Trichloroethane	0.055	U	0.055	0.011	mg/Kg	✱	04/15/26 17:33	04/19/26 11:14	50
1,1-Dichloroethane	0.055	U	0.055	0.013	mg/Kg	✱	04/15/26 17:33	04/19/26 11:14	50
1,1-Dichloroethene	0.055	U	0.055	0.014	mg/Kg	✱	04/15/26 17:33	04/19/26 11:14	50
1,2,3-Trichlorobenzene	0.055	U	0.055	0.019	mg/Kg	✱	04/15/26 17:33	04/19/26 11:14	50
1,2,4-Trichlorobenzene	0.055	U	0.055	0.015	mg/Kg	✱	04/15/26 17:33	04/19/26 11:14	50
1,2,4-Trimethylbenzene	0.055	U	0.055	0.013	mg/Kg	✱	04/15/26 17:33	04/19/26 11:14	50
1,2-Dibromo-3-Chloropropane	0.055	U	0.055	0.012	mg/Kg	✱	04/15/26 17:33	04/19/26 11:14	50
1,2-Dichlorobenzene	0.055	U	0.055	0.012	mg/Kg	✱	04/15/26 17:33	04/19/26 11:14	50
1,2-Dichloroethane	0.055	U	0.055	0.014	mg/Kg	✱	04/15/26 17:33	04/19/26 11:14	50
1,2-Dichloropropane	0.055	U	0.055	0.0099	mg/Kg	✱	04/15/26 17:33	04/19/26 11:14	50
1,3,5-Trimethylbenzene	0.055	U	0.055	0.014	mg/Kg	✱	04/15/26 17:33	04/19/26 11:14	50
1,3-Dichlorobenzene	0.055	U	0.055	0.018	mg/Kg	✱	04/15/26 17:33	04/19/26 11:14	50
1,4-Dichlorobenzene	0.055	U	0.055	0.018	mg/Kg	✱	04/15/26 17:33	04/19/26 11:14	50
2-Butanone (MEK)	0.27	U	0.27	0.12	mg/Kg	✱	04/15/26 17:33	04/19/26 11:14	50
2-Hexanone	0.27	U	0.27	0.062	mg/Kg	✱	04/15/26 17:33	04/19/26 11:14	50
4-Methyl-2-pentanone (MIBK)	0.27	U	0.27	0.071	mg/Kg	✱	04/15/26 17:33	04/19/26 11:14	50
Acetone	0.27	U	0.27	0.24	mg/Kg	✱	04/15/26 17:33	04/19/26 11:14	50
Benzene	0.055	U	0.055	0.011	mg/Kg	✱	04/15/26 17:33	04/19/26 11:14	50
Bromoform	0.055	U	0.055	0.0099	mg/Kg	✱	04/15/26 17:33	04/19/26 11:14	50
Bromomethane	0.055	U	0.055	0.030	mg/Kg	✱	04/15/26 17:33	04/19/26 11:14	50

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Client Sample Results

Client: Haley & Aldrich Inc
Project/Site: Former Port Mobil

Job ID: 460-348810-1

Client Sample ID: AST04-ISS11_B

Lab Sample ID: 460-348810-2

Date Collected: 04/14/26 13:35

Matrix: Solid

Date Received: 04/14/26 16:45

Percent Solids: 96.8

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	0.055	U	0.055	0.037	mg/Kg	✱	04/15/26 17:33	04/19/26 11:14	50
Carbon tetrachloride	0.055	U	0.055	0.018	mg/Kg	✱	04/15/26 17:33	04/19/26 11:14	50
Chlorobenzene	0.055	U	0.055	0.013	mg/Kg	✱	04/15/26 17:33	04/19/26 11:14	50
Chlorobromomethane	0.055	U	0.055	0.016	mg/Kg	✱	04/15/26 17:33	04/19/26 11:14	50
Chlorodibromomethane	0.055	U	0.055	0.012	mg/Kg	✱	04/15/26 17:33	04/19/26 11:14	50
Chloroethane	0.055	U	0.055	0.020	mg/Kg	✱	04/15/26 17:33	04/19/26 11:14	50
Chloroform	0.055	U	0.055	0.012	mg/Kg	✱	04/15/26 17:33	04/19/26 11:14	50
Chloromethane	0.055	U	0.055	0.022	mg/Kg	✱	04/15/26 17:33	04/19/26 11:14	50
cis-1,2-Dichloroethene	0.055	U	0.055	0.014	mg/Kg	✱	04/15/26 17:33	04/19/26 11:14	50
cis-1,3-Dichloropropene	0.055	U	0.055	0.012	mg/Kg	✱	04/15/26 17:33	04/19/26 11:14	50
Cyclohexane	0.055	U	0.055	0.014	mg/Kg	✱	04/15/26 17:33	04/19/26 11:14	50
Dichlorobromomethane	0.055	U	0.055	0.0082	mg/Kg	✱	04/15/26 17:33	04/19/26 11:14	50
Dichlorodifluoromethane	0.055	U	0.055	0.017	mg/Kg	✱	04/15/26 17:33	04/19/26 11:14	50
Ethylbenzene	0.055	U	0.055	0.016	mg/Kg	✱	04/15/26 17:33	04/19/26 11:14	50
Ethylene Dibromide	0.055	U	0.055	0.010	mg/Kg	✱	04/15/26 17:33	04/19/26 11:14	50
Isopropylbenzene	0.13		0.055	0.018	mg/Kg	✱	04/15/26 17:33	04/19/26 11:14	50
Methyl acetate	0.27	U	0.27	0.043	mg/Kg	✱	04/15/26 17:33	04/19/26 11:14	50
Methyl tert-butyl ether	0.055	U *	0.055	0.012	mg/Kg	✱	04/15/26 17:33	04/19/26 11:14	50
Methylcyclohexane	0.26		0.055	0.040	mg/Kg	✱	04/15/26 17:33	04/19/26 11:14	50
Methylene Chloride	0.055	U *	0.055	0.012	mg/Kg	✱	04/15/26 17:33	04/19/26 11:14	50
m-Xylene & p-Xylene	0.055	U	0.055	0.015	mg/Kg	✱	04/15/26 17:33	04/19/26 11:14	50
n-Butylbenzene	1.3		0.055	0.015	mg/Kg	✱	04/15/26 17:33	04/19/26 11:14	50
N-Propylbenzene	0.36		0.055	0.016	mg/Kg	✱	04/15/26 17:33	04/19/26 11:14	50
o-Xylene	0.055	U	0.055	0.018	mg/Kg	✱	04/15/26 17:33	04/19/26 11:14	50
sec-Butylbenzene	0.73		0.055	0.017	mg/Kg	✱	04/15/26 17:33	04/19/26 11:14	50
Styrene	0.055	U	0.055	0.0093	mg/Kg	✱	04/15/26 17:33	04/19/26 11:14	50
tert-Butylbenzene	0.034	J	0.055	0.015	mg/Kg	✱	04/15/26 17:33	04/19/26 11:14	50
Tetrachloroethene	0.055	U	0.055	0.020	mg/Kg	✱	04/15/26 17:33	04/19/26 11:14	50
Toluene	0.055	U	0.055	0.014	mg/Kg	✱	04/15/26 17:33	04/19/26 11:14	50
trans-1,2-Dichloroethene	0.055	U	0.055	0.0099	mg/Kg	✱	04/15/26 17:33	04/19/26 11:14	50
trans-1,3-Dichloropropene	0.055	U	0.055	0.012	mg/Kg	✱	04/15/26 17:33	04/19/26 11:14	50
Trichloroethene	0.055	U *	0.055	0.012	mg/Kg	✱	04/15/26 17:33	04/19/26 11:14	50
Trichlorofluoromethane	0.055	U	0.055	0.018	mg/Kg	✱	04/15/26 17:33	04/19/26 11:14	50
Vinyl chloride	0.055	U	0.055	0.011	mg/Kg	✱	04/15/26 17:33	04/19/26 11:14	50
Xylenes, Total	0.11	U	0.11	0.015	mg/Kg	✱	04/15/26 17:33	04/19/26 11:14	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	114		60 - 150	04/15/26 17:33	04/19/26 11:14	50
4-Bromofluorobenzene	119		70 - 150	04/15/26 17:33	04/19/26 11:14	50
Dibromofluoromethane (Surr)	110		68 - 150	04/15/26 17:33	04/19/26 11:14	50
Toluene-d8 (Surr)	112		64 - 157	04/15/26 17:33	04/19/26 11:14	50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	3.2		1.0	1.0	%			04/15/26 16:46	1
Percent Solids (EPA Moisture)	96.8		1.0	1.0	%			04/15/26 16:46	1

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Client Sample Results

Client: Haley & Aldrich Inc
Project/Site: Former Port Mobil

Job ID: 460-348810-1

Client Sample ID: AST04-ISS11_C

Lab Sample ID: 460-348810-3

Date Collected: 04/14/26 13:38

Matrix: Solid

Date Received: 04/14/26 16:45

Percent Solids: 88.1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00071	U	0.00071	0.00017	mg/Kg	☆	04/15/26 17:43	04/17/26 23:06	1
1,1,2,2-Tetrachloroethane	0.00071	U	0.00071	0.00037	mg/Kg	☆	04/15/26 17:43	04/17/26 23:06	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00071	U	0.00071	0.00021	mg/Kg	☆	04/15/26 17:43	04/17/26 23:06	1
1,1,2-Trichloroethane	0.00071	U	0.00071	0.00043	mg/Kg	☆	04/15/26 17:43	04/17/26 23:06	1
1,1-Dichloroethane	0.00071	U *	0.00071	0.00043	mg/Kg	☆	04/15/26 17:43	04/17/26 23:06	1
1,1-Dichloroethene	0.00071	U	0.00071	0.00016	mg/Kg	☆	04/15/26 17:43	04/17/26 23:06	1
1,2,3-Trichlorobenzene	0.00071	U	0.00071	0.00053	mg/Kg	☆	04/15/26 17:43	04/17/26 23:06	1
1,2,4-Trichlorobenzene	0.00071	U	0.00071	0.00026	mg/Kg	☆	04/15/26 17:43	04/17/26 23:06	1
1,2,4-Trimethylbenzene	0.00071	U	0.00071	0.00018	mg/Kg	☆	04/15/26 17:43	04/17/26 23:06	1
1,2-Dibromo-3-Chloropropane	0.00071	U	0.00071	0.00033	mg/Kg	☆	04/15/26 17:43	04/17/26 23:06	1
1,2-Dichlorobenzene	0.00071	U	0.00071	0.00026	mg/Kg	☆	04/15/26 17:43	04/17/26 23:06	1
1,2-Dichloroethane	0.00071	U	0.00071	0.00021	mg/Kg	☆	04/15/26 17:43	04/17/26 23:06	1
1,2-Dichloropropane	0.00071	U *	0.00071	0.00030	mg/Kg	☆	04/15/26 17:43	04/17/26 23:06	1
1,3,5-Trimethylbenzene	0.00071	U	0.00071	0.00022	mg/Kg	☆	04/15/26 17:43	04/17/26 23:06	1
1,3-Dichlorobenzene	0.00071	U	0.00071	0.00026	mg/Kg	☆	04/15/26 17:43	04/17/26 23:06	1
1,4-Dichlorobenzene	0.00071	U	0.00071	0.00037	mg/Kg	☆	04/15/26 17:43	04/17/26 23:06	1
2-Butanone (MEK)	0.0021	J	0.0036	0.00026	mg/Kg	☆	04/15/26 17:43	04/17/26 23:06	1
2-Hexanone	0.0036	U	0.0036	0.0012	mg/Kg	☆	04/15/26 17:43	04/17/26 23:06	1
4-Methyl-2-pentanone (MIBK)	0.0036	U	0.0036	0.0011	mg/Kg	☆	04/15/26 17:43	04/17/26 23:06	1
Acetone	0.012		0.0043	0.0041	mg/Kg	☆	04/15/26 17:43	04/17/26 23:06	1
Benzene	0.00071	U	0.00071	0.00040	mg/Kg	☆	04/15/26 17:43	04/17/26 23:06	1
Bromoform	0.00071	U	0.00071	0.00030	mg/Kg	☆	04/15/26 17:43	04/17/26 23:06	1
Bromomethane	0.0014	U	0.0014	0.00071	mg/Kg	☆	04/15/26 17:43	04/17/26 23:06	1
Carbon disulfide	0.00063	J	0.00071	0.00019	mg/Kg	☆	04/15/26 17:43	04/17/26 23:06	1
Carbon tetrachloride	0.00071	U	0.00071	0.00028	mg/Kg	☆	04/15/26 17:43	04/17/26 23:06	1
Chlorobenzene	0.00071	U	0.00071	0.00036	mg/Kg	☆	04/15/26 17:43	04/17/26 23:06	1
Chlorobromomethane	0.00071	U	0.00071	0.00043	mg/Kg	☆	04/15/26 17:43	04/17/26 23:06	1
Chlorodibromomethane	0.00071	U	0.00071	0.00038	mg/Kg	☆	04/15/26 17:43	04/17/26 23:06	1
Chloroethane	0.00071	U	0.00071	0.00037	mg/Kg	☆	04/15/26 17:43	04/17/26 23:06	1
Chloroform	0.00071	U	0.00071	0.00069	mg/Kg	☆	04/15/26 17:43	04/17/26 23:06	1
Chloromethane	0.00071	U *	0.00071	0.00031	mg/Kg	☆	04/15/26 17:43	04/17/26 23:06	1
cis-1,2-Dichloroethene	0.00071	U	0.00071	0.00026	mg/Kg	☆	04/15/26 17:43	04/17/26 23:06	1
cis-1,3-Dichloropropene	0.00071	U	0.00071	0.00019	mg/Kg	☆	04/15/26 17:43	04/17/26 23:06	1
Cyclohexane	0.00071	U	0.00071	0.00016	mg/Kg	☆	04/15/26 17:43	04/17/26 23:06	1
Dichlorobromomethane	0.00071	U	0.00071	0.00018	mg/Kg	☆	04/15/26 17:43	04/17/26 23:06	1
Dichlorodifluoromethane	0.00071	U	0.00071	0.00024	mg/Kg	☆	04/15/26 17:43	04/17/26 23:06	1
Ethylbenzene	0.00071	U	0.00071	0.00033	mg/Kg	☆	04/15/26 17:43	04/17/26 23:06	1
Ethylene Dibromide	0.00071	U	0.00071	0.00036	mg/Kg	☆	04/15/26 17:43	04/17/26 23:06	1
Isopropylbenzene	0.00071	U	0.00071	0.00020	mg/Kg	☆	04/15/26 17:43	04/17/26 23:06	1
Methyl acetate	0.0036	U *	0.0036	0.0031	mg/Kg	☆	04/15/26 17:43	04/17/26 23:06	1
Methyl tert-butyl ether	0.00071	U	0.00071	0.00037	mg/Kg	☆	04/15/26 17:43	04/17/26 23:06	1
Methylcyclohexane	0.00071	U	0.00071	0.00036	mg/Kg	☆	04/15/26 17:43	04/17/26 23:06	1
Methylene Chloride	0.0014	U	0.0014	0.00082	mg/Kg	☆	04/15/26 17:43	04/17/26 23:06	1
m-Xylene & p-Xylene	0.00071	U	0.00071	0.00030	mg/Kg	☆	04/15/26 17:43	04/17/26 23:06	1
n-Butylbenzene	0.00071	U	0.00071	0.00021	mg/Kg	☆	04/15/26 17:43	04/17/26 23:06	1
N-Propylbenzene	0.00071	U	0.00071	0.00032	mg/Kg	☆	04/15/26 17:43	04/17/26 23:06	1
o-Xylene	0.00071	U	0.00071	0.00033	mg/Kg	☆	04/15/26 17:43	04/17/26 23:06	1
sec-Butylbenzene	0.00071	U	0.00071	0.00021	mg/Kg	☆	04/15/26 17:43	04/17/26 23:06	1
Styrene	0.00071	U	0.00071	0.00020	mg/Kg	☆	04/15/26 17:43	04/17/26 23:06	1

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Client Sample Results

Client: Haley & Aldrich Inc
Project/Site: Former Port Mobil

Job ID: 460-348810-1

Client Sample ID: AST04-ISS11_C

Lab Sample ID: 460-348810-3

Date Collected: 04/14/26 13:38

Matrix: Solid

Date Received: 04/14/26 16:45

Percent Solids: 88.1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	0.00071	U	0.00071	0.00020	mg/Kg	✱	04/15/26 17:43	04/17/26 23:06	1
Tetrachloroethene	0.00071	U	0.00071	0.00022	mg/Kg	✱	04/15/26 17:43	04/17/26 23:06	1
Toluene	0.00071	U	0.00071	0.00017	mg/Kg	✱	04/15/26 17:43	04/17/26 23:06	1
trans-1,2-Dichloroethene	0.00071	U	0.00071	0.00018	mg/Kg	✱	04/15/26 17:43	04/17/26 23:06	1
trans-1,3-Dichloropropene	0.00071	U	0.00071	0.00019	mg/Kg	✱	04/15/26 17:43	04/17/26 23:06	1
Trichloroethene	0.00071	U	0.00071	0.00023	mg/Kg	✱	04/15/26 17:43	04/17/26 23:06	1
Trichlorofluoromethane	0.00071	U	0.00071	0.00029	mg/Kg	✱	04/15/26 17:43	04/17/26 23:06	1
Vinyl chloride	0.00071	U	0.00071	0.00039	mg/Kg	✱	04/15/26 17:43	04/17/26 23:06	1
Xylenes, Total	0.00023	J	0.0014	0.00012	mg/Kg	✱	04/15/26 17:43	04/17/26 23:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		65 - 138	04/15/26 17:43	04/17/26 23:06	1
4-Bromofluorobenzene	110		71 - 128	04/15/26 17:43	04/17/26 23:06	1
Dibromofluoromethane (Surr)	99		50 - 150	04/15/26 17:43	04/17/26 23:06	1
Toluene-d8 (Surr)	103		71 - 126	04/15/26 17:43	04/17/26 23:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	11.9		1.0	1.0	%			04/15/26 16:46	1
Percent Solids (EPA Moisture)	88.1		1.0	1.0	%			04/15/26 16:46	1

Client Sample ID: AST04-ISS12_A

Lab Sample ID: 460-348810-4

Date Collected: 04/14/26 13:42

Matrix: Solid

Date Received: 04/14/26 16:45

Percent Solids: 86.7

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00080	U	0.00080	0.00019	mg/Kg	✱	04/15/26 17:44	04/17/26 22:43	1
1,1,2,2-Tetrachloroethane	0.00080	U	0.00080	0.00042	mg/Kg	✱	04/15/26 17:44	04/17/26 22:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00080	U	0.00080	0.00024	mg/Kg	✱	04/15/26 17:44	04/17/26 22:43	1
1,1,2-Trichloroethane	0.00080	U	0.00080	0.00048	mg/Kg	✱	04/15/26 17:44	04/17/26 22:43	1
1,1-Dichloroethane	0.00080	U *	0.00080	0.00048	mg/Kg	✱	04/15/26 17:44	04/17/26 22:43	1
1,1-Dichloroethene	0.00080	U	0.00080	0.00018	mg/Kg	✱	04/15/26 17:44	04/17/26 22:43	1
1,2,3-Trichlorobenzene	0.00080	U	0.00080	0.00059	mg/Kg	✱	04/15/26 17:44	04/17/26 22:43	1
1,2,4-Trichlorobenzene	0.00080	U	0.00080	0.00029	mg/Kg	✱	04/15/26 17:44	04/17/26 22:43	1
1,2,4-Trimethylbenzene	0.00080	U	0.00080	0.00020	mg/Kg	✱	04/15/26 17:44	04/17/26 22:43	1
1,2-Dibromo-3-Chloropropane	0.00080	U	0.00080	0.00037	mg/Kg	✱	04/15/26 17:44	04/17/26 22:43	1
1,2-Dichlorobenzene	0.00080	U	0.00080	0.00029	mg/Kg	✱	04/15/26 17:44	04/17/26 22:43	1
1,2-Dichloroethane	0.00080	U	0.00080	0.00024	mg/Kg	✱	04/15/26 17:44	04/17/26 22:43	1
1,2-Dichloropropane	0.00080	U *	0.00080	0.00034	mg/Kg	✱	04/15/26 17:44	04/17/26 22:43	1
1,3,5-Trimethylbenzene	0.00080	U	0.00080	0.00025	mg/Kg	✱	04/15/26 17:44	04/17/26 22:43	1
1,3-Dichlorobenzene	0.00080	U	0.00080	0.00029	mg/Kg	✱	04/15/26 17:44	04/17/26 22:43	1
1,4-Dichlorobenzene	0.00080	U	0.00080	0.00042	mg/Kg	✱	04/15/26 17:44	04/17/26 22:43	1
2-Butanone (MEK)	0.0040	U	0.0040	0.00030	mg/Kg	✱	04/15/26 17:44	04/17/26 22:43	1
2-Hexanone	0.0040	U	0.0040	0.0014	mg/Kg	✱	04/15/26 17:44	04/17/26 22:43	1
4-Methyl-2-pentanone (MIBK)	0.0040	U	0.0040	0.0012	mg/Kg	✱	04/15/26 17:44	04/17/26 22:43	1
Acetone	0.011		0.0048	0.0046	mg/Kg	✱	04/15/26 17:44	04/17/26 22:43	1
Benzene	0.00080	U	0.00080	0.00045	mg/Kg	✱	04/15/26 17:44	04/17/26 22:43	1
Bromoform	0.00080	U	0.00080	0.00034	mg/Kg	✱	04/15/26 17:44	04/17/26 22:43	1
Bromomethane	0.0016	U	0.0016	0.00080	mg/Kg	✱	04/15/26 17:44	04/17/26 22:43	1

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Client Sample Results

Client: Haley & Aldrich Inc
Project/Site: Former Port Mobil

Job ID: 460-348810-1

Client Sample ID: AST04-ISS12_A

Lab Sample ID: 460-348810-4

Date Collected: 04/14/26 13:42

Matrix: Solid

Date Received: 04/14/26 16:45

Percent Solids: 86.7

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	0.00080	U	0.00080	0.00021	mg/Kg	✱	04/15/26 17:44	04/17/26 22:43	1
Carbon tetrachloride	0.00080	U	0.00080	0.00031	mg/Kg	✱	04/15/26 17:44	04/17/26 22:43	1
Chlorobenzene	0.00080	U	0.00080	0.00041	mg/Kg	✱	04/15/26 17:44	04/17/26 22:43	1
Chlorobromomethane	0.00080	U	0.00080	0.00048	mg/Kg	✱	04/15/26 17:44	04/17/26 22:43	1
Chlorodibromomethane	0.00080	U	0.00080	0.00043	mg/Kg	✱	04/15/26 17:44	04/17/26 22:43	1
Chloroethane	0.00080	U	0.00080	0.00042	mg/Kg	✱	04/15/26 17:44	04/17/26 22:43	1
Chloroform	0.00080	U	0.00080	0.00078	mg/Kg	✱	04/15/26 17:44	04/17/26 22:43	1
Chloromethane	0.00080	U *	0.00080	0.00035	mg/Kg	✱	04/15/26 17:44	04/17/26 22:43	1
cis-1,2-Dichloroethene	0.00080	U	0.00080	0.00029	mg/Kg	✱	04/15/26 17:44	04/17/26 22:43	1
cis-1,3-Dichloropropene	0.00080	U	0.00080	0.00022	mg/Kg	✱	04/15/26 17:44	04/17/26 22:43	1
Cyclohexane	0.00080	U	0.00080	0.00018	mg/Kg	✱	04/15/26 17:44	04/17/26 22:43	1
Dichlorobromomethane	0.00080	U	0.00080	0.00021	mg/Kg	✱	04/15/26 17:44	04/17/26 22:43	1
Dichlorodifluoromethane	0.00080	U	0.00080	0.00027	mg/Kg	✱	04/15/26 17:44	04/17/26 22:43	1
Ethylbenzene	0.00080	U	0.00080	0.00038	mg/Kg	✱	04/15/26 17:44	04/17/26 22:43	1
Ethylene Dibromide	0.00080	U	0.00080	0.00040	mg/Kg	✱	04/15/26 17:44	04/17/26 22:43	1
Isopropylbenzene	0.00080	U	0.00080	0.00023	mg/Kg	✱	04/15/26 17:44	04/17/26 22:43	1
Methyl acetate	0.0040	U *	0.0040	0.0035	mg/Kg	✱	04/15/26 17:44	04/17/26 22:43	1
Methyl tert-butyl ether	0.00080	U	0.00080	0.00041	mg/Kg	✱	04/15/26 17:44	04/17/26 22:43	1
Methylcyclohexane	0.00080	U	0.00080	0.00040	mg/Kg	✱	04/15/26 17:44	04/17/26 22:43	1
Methylene Chloride	0.0016	U	0.0016	0.00092	mg/Kg	✱	04/15/26 17:44	04/17/26 22:43	1
m-Xylene & p-Xylene	0.00080	U	0.00080	0.00034	mg/Kg	✱	04/15/26 17:44	04/17/26 22:43	1
n-Butylbenzene	0.00080	U	0.00080	0.00024	mg/Kg	✱	04/15/26 17:44	04/17/26 22:43	1
N-Propylbenzene	0.00080	U	0.00080	0.00036	mg/Kg	✱	04/15/26 17:44	04/17/26 22:43	1
o-Xylene	0.00080	U	0.00080	0.00037	mg/Kg	✱	04/15/26 17:44	04/17/26 22:43	1
sec-Butylbenzene	0.00080	U	0.00080	0.00023	mg/Kg	✱	04/15/26 17:44	04/17/26 22:43	1
Styrene	0.00080	U	0.00080	0.00022	mg/Kg	✱	04/15/26 17:44	04/17/26 22:43	1
tert-Butylbenzene	0.00080	U	0.00080	0.00022	mg/Kg	✱	04/15/26 17:44	04/17/26 22:43	1
Tetrachloroethene	0.00080	U	0.00080	0.00024	mg/Kg	✱	04/15/26 17:44	04/17/26 22:43	1
Toluene	0.00080	U	0.00080	0.00019	mg/Kg	✱	04/15/26 17:44	04/17/26 22:43	1
trans-1,2-Dichloroethene	0.00080	U	0.00080	0.00020	mg/Kg	✱	04/15/26 17:44	04/17/26 22:43	1
trans-1,3-Dichloropropene	0.00080	U	0.00080	0.00021	mg/Kg	✱	04/15/26 17:44	04/17/26 22:43	1
Trichloroethene	0.00080	U	0.00080	0.00026	mg/Kg	✱	04/15/26 17:44	04/17/26 22:43	1
Trichlorofluoromethane	0.00080	U	0.00080	0.00033	mg/Kg	✱	04/15/26 17:44	04/17/26 22:43	1
Vinyl chloride	0.00080	U	0.00080	0.00044	mg/Kg	✱	04/15/26 17:44	04/17/26 22:43	1
Xylenes, Total	0.0016	U	0.0016	0.00014	mg/Kg	✱	04/15/26 17:44	04/17/26 22:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		65 - 138				04/15/26 17:44	04/17/26 22:43	1
4-Bromofluorobenzene	105		71 - 128				04/15/26 17:44	04/17/26 22:43	1
Dibromofluoromethane (Surr)	98		50 - 150				04/15/26 17:44	04/17/26 22:43	1
Toluene-d8 (Surr)	103		71 - 126				04/15/26 17:44	04/17/26 22:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	13.3		1.0	1.0	%			04/15/26 16:46	1
Percent Solids (EPA Moisture)	86.7		1.0	1.0	%			04/15/26 16:46	1

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Client Sample Results

Client: Haley & Aldrich Inc
Project/Site: Former Port Mobil

Job ID: 460-348810-1

Client Sample ID: AST04-ISS12_B

Lab Sample ID: 460-348810-5

Date Collected: 04/14/26 13:44

Matrix: Solid

Date Received: 04/14/26 16:45

Percent Solids: 82.8

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00075	U	0.00075	0.00017	mg/Kg	✱	04/15/26 17:44	04/17/26 22:19	1
1,1,2,2-Tetrachloroethane	0.00075	U	0.00075	0.00039	mg/Kg	✱	04/15/26 17:44	04/17/26 22:19	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00075	U	0.00075	0.00023	mg/Kg	✱	04/15/26 17:44	04/17/26 22:19	1
1,1,2-Trichloroethane	0.00075	U	0.00075	0.00045	mg/Kg	✱	04/15/26 17:44	04/17/26 22:19	1
1,1-Dichloroethane	0.00075	U *	0.00075	0.00045	mg/Kg	✱	04/15/26 17:44	04/17/26 22:19	1
1,1-Dichloroethene	0.00075	U	0.00075	0.00017	mg/Kg	✱	04/15/26 17:44	04/17/26 22:19	1
1,2,3-Trichlorobenzene	0.00075	U	0.00075	0.00055	mg/Kg	✱	04/15/26 17:44	04/17/26 22:19	1
1,2,4-Trichlorobenzene	0.00075	U	0.00075	0.00027	mg/Kg	✱	04/15/26 17:44	04/17/26 22:19	1
1,2,4-Trimethylbenzene	0.00075	U	0.00075	0.00018	mg/Kg	✱	04/15/26 17:44	04/17/26 22:19	1
1,2-Dibromo-3-Chloropropane	0.00075	U	0.00075	0.00034	mg/Kg	✱	04/15/26 17:44	04/17/26 22:19	1
1,2-Dichlorobenzene	0.00075	U	0.00075	0.00027	mg/Kg	✱	04/15/26 17:44	04/17/26 22:19	1
1,2-Dichloroethane	0.00075	U	0.00075	0.00022	mg/Kg	✱	04/15/26 17:44	04/17/26 22:19	1
1,2-Dichloropropane	0.00075	U *	0.00075	0.00032	mg/Kg	✱	04/15/26 17:44	04/17/26 22:19	1
1,3,5-Trimethylbenzene	0.00075	U	0.00075	0.00023	mg/Kg	✱	04/15/26 17:44	04/17/26 22:19	1
1,3-Dichlorobenzene	0.00075	U	0.00075	0.00027	mg/Kg	✱	04/15/26 17:44	04/17/26 22:19	1
1,4-Dichlorobenzene	0.00075	U	0.00075	0.00039	mg/Kg	✱	04/15/26 17:44	04/17/26 22:19	1
2-Butanone (MEK)	0.012		0.0037	0.00028	mg/Kg	✱	04/15/26 17:44	04/17/26 22:19	1
2-Hexanone	0.0037	U	0.0037	0.0013	mg/Kg	✱	04/15/26 17:44	04/17/26 22:19	1
4-Methyl-2-pentanone (MIBK)	0.0037	U	0.0037	0.0012	mg/Kg	✱	04/15/26 17:44	04/17/26 22:19	1
Acetone	0.13		0.0045	0.0043	mg/Kg	✱	04/15/26 17:44	04/17/26 22:19	1
Benzene	0.00075	U	0.00075	0.00042	mg/Kg	✱	04/15/26 17:44	04/17/26 22:19	1
Bromoform	0.00075	U	0.00075	0.00032	mg/Kg	✱	04/15/26 17:44	04/17/26 22:19	1
Bromomethane	0.0015	U	0.0015	0.00075	mg/Kg	✱	04/15/26 17:44	04/17/26 22:19	1
Carbon disulfide	0.0011		0.00075	0.00020	mg/Kg	✱	04/15/26 17:44	04/17/26 22:19	1
Carbon tetrachloride	0.00075	U	0.00075	0.00029	mg/Kg	✱	04/15/26 17:44	04/17/26 22:19	1
Chlorobenzene	0.00075	U	0.00075	0.00038	mg/Kg	✱	04/15/26 17:44	04/17/26 22:19	1
Chlorobromomethane	0.00075	U	0.00075	0.00045	mg/Kg	✱	04/15/26 17:44	04/17/26 22:19	1
Chlorodibromomethane	0.00075	U	0.00075	0.00040	mg/Kg	✱	04/15/26 17:44	04/17/26 22:19	1
Chloroethane	0.00075	U	0.00075	0.00039	mg/Kg	✱	04/15/26 17:44	04/17/26 22:19	1
Chloroform	0.00075	U	0.00075	0.00073	mg/Kg	✱	04/15/26 17:44	04/17/26 22:19	1
Chloromethane	0.00075	U *	0.00075	0.00033	mg/Kg	✱	04/15/26 17:44	04/17/26 22:19	1
cis-1,2-Dichloroethene	0.00075	U	0.00075	0.00027	mg/Kg	✱	04/15/26 17:44	04/17/26 22:19	1
cis-1,3-Dichloropropene	0.00075	U	0.00075	0.00020	mg/Kg	✱	04/15/26 17:44	04/17/26 22:19	1
Cyclohexane	0.00075	U	0.00075	0.00017	mg/Kg	✱	04/15/26 17:44	04/17/26 22:19	1
Dichlorobromomethane	0.00075	U	0.00075	0.00019	mg/Kg	✱	04/15/26 17:44	04/17/26 22:19	1
Dichlorodifluoromethane	0.00075	U	0.00075	0.00025	mg/Kg	✱	04/15/26 17:44	04/17/26 22:19	1
Ethylbenzene	0.00075	U	0.00075	0.00035	mg/Kg	✱	04/15/26 17:44	04/17/26 22:19	1
Ethylene Dibromide	0.00075	U	0.00075	0.00038	mg/Kg	✱	04/15/26 17:44	04/17/26 22:19	1
Isopropylbenzene	0.00075	U	0.00075	0.00021	mg/Kg	✱	04/15/26 17:44	04/17/26 22:19	1
Methyl acetate	0.0037	U *	0.0037	0.0032	mg/Kg	✱	04/15/26 17:44	04/17/26 22:19	1
Methyl tert-butyl ether	0.00075	U	0.00075	0.00038	mg/Kg	✱	04/15/26 17:44	04/17/26 22:19	1
Methylcyclohexane	0.00075	U	0.00075	0.00037	mg/Kg	✱	04/15/26 17:44	04/17/26 22:19	1
Methylene Chloride	0.0015	U	0.0015	0.00086	mg/Kg	✱	04/15/26 17:44	04/17/26 22:19	1
m-Xylene & p-Xylene	0.00075	U	0.00075	0.00032	mg/Kg	✱	04/15/26 17:44	04/17/26 22:19	1
n-Butylbenzene	0.00075	U	0.00075	0.00022	mg/Kg	✱	04/15/26 17:44	04/17/26 22:19	1
N-Propylbenzene	0.00075	U	0.00075	0.00034	mg/Kg	✱	04/15/26 17:44	04/17/26 22:19	1
o-Xylene	0.00075	U	0.00075	0.00035	mg/Kg	✱	04/15/26 17:44	04/17/26 22:19	1
sec-Butylbenzene	0.00075	U	0.00075	0.00022	mg/Kg	✱	04/15/26 17:44	04/17/26 22:19	1
Styrene	0.00075	U	0.00075	0.00021	mg/Kg	✱	04/15/26 17:44	04/17/26 22:19	1

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Client Sample Results

Client: Haley & Aldrich Inc
Project/Site: Former Port Mobil

Job ID: 460-348810-1

Client Sample ID: AST04-ISS12_B

Lab Sample ID: 460-348810-5

Date Collected: 04/14/26 13:44

Matrix: Solid

Date Received: 04/14/26 16:45

Percent Solids: 82.8

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	0.00075	U	0.00075	0.00021	mg/Kg	✱	04/15/26 17:44	04/17/26 22:19	1
Tetrachloroethene	0.00075	U	0.00075	0.00023	mg/Kg	✱	04/15/26 17:44	04/17/26 22:19	1
Toluene	0.00075	U	0.00075	0.00018	mg/Kg	✱	04/15/26 17:44	04/17/26 22:19	1
trans-1,2-Dichloroethene	0.00075	U	0.00075	0.00018	mg/Kg	✱	04/15/26 17:44	04/17/26 22:19	1
trans-1,3-Dichloropropene	0.00075	U	0.00075	0.00020	mg/Kg	✱	04/15/26 17:44	04/17/26 22:19	1
Trichloroethene	0.00075	U	0.00075	0.00024	mg/Kg	✱	04/15/26 17:44	04/17/26 22:19	1
Trichlorofluoromethane	0.00075	U	0.00075	0.00030	mg/Kg	✱	04/15/26 17:44	04/17/26 22:19	1
Vinyl chloride	0.00075	U	0.00075	0.00041	mg/Kg	✱	04/15/26 17:44	04/17/26 22:19	1
Xylenes, Total	0.0015	U	0.0015	0.00013	mg/Kg	✱	04/15/26 17:44	04/17/26 22:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		65 - 138	04/15/26 17:44	04/17/26 22:19	1
4-Bromofluorobenzene	109		71 - 128	04/15/26 17:44	04/17/26 22:19	1
Dibromofluoromethane (Surr)	100		50 - 150	04/15/26 17:44	04/17/26 22:19	1
Toluene-d8 (Surr)	104		71 - 126	04/15/26 17:44	04/17/26 22:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	17.2		1.0	1.0	%			04/15/26 16:46	1
Percent Solids (EPA Moisture)	82.8		1.0	1.0	%			04/15/26 16:46	1

Client Sample ID: AST04-ISS12_C

Lab Sample ID: 460-348810-6

Date Collected: 04/14/26 13:46

Matrix: Solid

Date Received: 04/14/26 16:45

Percent Solids: 85.0

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00076	U	0.00076	0.00018	mg/Kg	✱	04/15/26 17:45	04/17/26 21:56	1
1,1,2,2-Tetrachloroethane	0.00076	U	0.00076	0.00040	mg/Kg	✱	04/15/26 17:45	04/17/26 21:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00076	U	0.00076	0.00023	mg/Kg	✱	04/15/26 17:45	04/17/26 21:56	1
1,1,2-Trichloroethane	0.00076	U	0.00076	0.00046	mg/Kg	✱	04/15/26 17:45	04/17/26 21:56	1
1,1-Dichloroethane	0.00076	U *	0.00076	0.00045	mg/Kg	✱	04/15/26 17:45	04/17/26 21:56	1
1,1-Dichloroethene	0.00076	U	0.00076	0.00017	mg/Kg	✱	04/15/26 17:45	04/17/26 21:56	1
1,2,3-Trichlorobenzene	0.00076	U	0.00076	0.00056	mg/Kg	✱	04/15/26 17:45	04/17/26 21:56	1
1,2,4-Trichlorobenzene	0.00076	U	0.00076	0.00027	mg/Kg	✱	04/15/26 17:45	04/17/26 21:56	1
1,2,4-Trimethylbenzene	0.00076	U	0.00076	0.00019	mg/Kg	✱	04/15/26 17:45	04/17/26 21:56	1
1,2-Dibromo-3-Chloropropane	0.00076	U	0.00076	0.00035	mg/Kg	✱	04/15/26 17:45	04/17/26 21:56	1
1,2-Dichlorobenzene	0.00076	U	0.00076	0.00027	mg/Kg	✱	04/15/26 17:45	04/17/26 21:56	1
1,2-Dichloroethane	0.00076	U	0.00076	0.00022	mg/Kg	✱	04/15/26 17:45	04/17/26 21:56	1
1,2-Dichloropropane	0.00076	U *	0.00076	0.00032	mg/Kg	✱	04/15/26 17:45	04/17/26 21:56	1
1,3,5-Trimethylbenzene	0.00076	U	0.00076	0.00024	mg/Kg	✱	04/15/26 17:45	04/17/26 21:56	1
1,3-Dichlorobenzene	0.00076	U	0.00076	0.00028	mg/Kg	✱	04/15/26 17:45	04/17/26 21:56	1
1,4-Dichlorobenzene	0.00076	U	0.00076	0.00039	mg/Kg	✱	04/15/26 17:45	04/17/26 21:56	1
2-Butanone (MEK)	0.0062		0.0038	0.00028	mg/Kg	✱	04/15/26 17:45	04/17/26 21:56	1
2-Hexanone	0.0038	U	0.0038	0.0013	mg/Kg	✱	04/15/26 17:45	04/17/26 21:56	1
4-Methyl-2-pentanone (MIBK)	0.0038	U	0.0038	0.0012	mg/Kg	✱	04/15/26 17:45	04/17/26 21:56	1
Acetone	0.051		0.0045	0.0043	mg/Kg	✱	04/15/26 17:45	04/17/26 21:56	1
Benzene	0.00076	U	0.00076	0.00043	mg/Kg	✱	04/15/26 17:45	04/17/26 21:56	1
Bromoform	0.00076	U	0.00076	0.00032	mg/Kg	✱	04/15/26 17:45	04/17/26 21:56	1
Bromomethane	0.0015	U	0.0015	0.00076	mg/Kg	✱	04/15/26 17:45	04/17/26 21:56	1

Eurofins Edison

Client Sample Results

Client: Haley & Aldrich Inc
Project/Site: Former Port Mobil

Job ID: 460-348810-1

Client Sample ID: AST04-ISS12_C

Lab Sample ID: 460-348810-6

Date Collected: 04/14/26 13:46

Matrix: Solid

Date Received: 04/14/26 16:45

Percent Solids: 85.0

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	0.0016		0.00076	0.00020	mg/Kg	✱	04/15/26 17:45	04/17/26 21:56	1
Carbon tetrachloride	0.00076	U	0.00076	0.00029	mg/Kg	✱	04/15/26 17:45	04/17/26 21:56	1
Chlorobenzene	0.00076	U	0.00076	0.00038	mg/Kg	✱	04/15/26 17:45	04/17/26 21:56	1
Chlorobromomethane	0.00076	U	0.00076	0.00045	mg/Kg	✱	04/15/26 17:45	04/17/26 21:56	1
Chlorodibromomethane	0.00076	U	0.00076	0.00041	mg/Kg	✱	04/15/26 17:45	04/17/26 21:56	1
Chloroethane	0.00076	U	0.00076	0.00040	mg/Kg	✱	04/15/26 17:45	04/17/26 21:56	1
Chloroform	0.00076	U	0.00076	0.00074	mg/Kg	✱	04/15/26 17:45	04/17/26 21:56	1
Chloromethane	0.00076	U *	0.00076	0.00033	mg/Kg	✱	04/15/26 17:45	04/17/26 21:56	1
cis-1,2-Dichloroethene	0.00076	U	0.00076	0.00027	mg/Kg	✱	04/15/26 17:45	04/17/26 21:56	1
cis-1,3-Dichloropropene	0.00076	U	0.00076	0.00021	mg/Kg	✱	04/15/26 17:45	04/17/26 21:56	1
Cyclohexane	0.00076	U	0.00076	0.00017	mg/Kg	✱	04/15/26 17:45	04/17/26 21:56	1
Dichlorobromomethane	0.00076	U	0.00076	0.00019	mg/Kg	✱	04/15/26 17:45	04/17/26 21:56	1
Dichlorodifluoromethane	0.00076	U	0.00076	0.00026	mg/Kg	✱	04/15/26 17:45	04/17/26 21:56	1
Ethylbenzene	0.00076	U	0.00076	0.00035	mg/Kg	✱	04/15/26 17:45	04/17/26 21:56	1
Ethylene Dibromide	0.00076	U	0.00076	0.00038	mg/Kg	✱	04/15/26 17:45	04/17/26 21:56	1
Isopropylbenzene	0.00076	U	0.00076	0.00022	mg/Kg	✱	04/15/26 17:45	04/17/26 21:56	1
Methyl acetate	0.0038	U *	0.0038	0.0033	mg/Kg	✱	04/15/26 17:45	04/17/26 21:56	1
Methyl tert-butyl ether	0.00076	U	0.00076	0.00039	mg/Kg	✱	04/15/26 17:45	04/17/26 21:56	1
Methylcyclohexane	0.00076	U	0.00076	0.00038	mg/Kg	✱	04/15/26 17:45	04/17/26 21:56	1
Methylene Chloride	0.0015	U	0.0015	0.00087	mg/Kg	✱	04/15/26 17:45	04/17/26 21:56	1
m-Xylene & p-Xylene	0.00076	U	0.00076	0.00032	mg/Kg	✱	04/15/26 17:45	04/17/26 21:56	1
n-Butylbenzene	0.00076	U	0.00076	0.00022	mg/Kg	✱	04/15/26 17:45	04/17/26 21:56	1
N-Propylbenzene	0.00076	U	0.00076	0.00034	mg/Kg	✱	04/15/26 17:45	04/17/26 21:56	1
o-Xylene	0.00076	U	0.00076	0.00035	mg/Kg	✱	04/15/26 17:45	04/17/26 21:56	1
sec-Butylbenzene	0.00076	U	0.00076	0.00022	mg/Kg	✱	04/15/26 17:45	04/17/26 21:56	1
Styrene	0.00076	U	0.00076	0.00021	mg/Kg	✱	04/15/26 17:45	04/17/26 21:56	1
tert-Butylbenzene	0.00076	U	0.00076	0.00021	mg/Kg	✱	04/15/26 17:45	04/17/26 21:56	1
Tetrachloroethene	0.00076	U	0.00076	0.00023	mg/Kg	✱	04/15/26 17:45	04/17/26 21:56	1
Toluene	0.00076	U	0.00076	0.00018	mg/Kg	✱	04/15/26 17:45	04/17/26 21:56	1
trans-1,2-Dichloroethene	0.00076	U	0.00076	0.00019	mg/Kg	✱	04/15/26 17:45	04/17/26 21:56	1
trans-1,3-Dichloropropene	0.00076	U	0.00076	0.00020	mg/Kg	✱	04/15/26 17:45	04/17/26 21:56	1
Trichloroethene	0.00076	U	0.00076	0.00024	mg/Kg	✱	04/15/26 17:45	04/17/26 21:56	1
Trichlorofluoromethane	0.00076	U	0.00076	0.00031	mg/Kg	✱	04/15/26 17:45	04/17/26 21:56	1
Vinyl chloride	0.00076	U	0.00076	0.00041	mg/Kg	✱	04/15/26 17:45	04/17/26 21:56	1
Xylenes, Total	0.0015	U	0.0015	0.00013	mg/Kg	✱	04/15/26 17:45	04/17/26 21:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		65 - 138	04/15/26 17:45	04/17/26 21:56	1
4-Bromofluorobenzene	107		71 - 128	04/15/26 17:45	04/17/26 21:56	1
Dibromofluoromethane (Surr)	98		50 - 150	04/15/26 17:45	04/17/26 21:56	1
Toluene-d8 (Surr)	104		71 - 126	04/15/26 17:45	04/17/26 21:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	15.0		1.0	1.0	%			04/15/26 16:46	1
Percent Solids (EPA Moisture)	85.0		1.0	1.0	%			04/15/26 16:46	1

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Client Sample Results

Client: Haley & Aldrich Inc
Project/Site: Former Port Mobil

Job ID: 460-348810-1

Client Sample ID: AST04-ISS12_D

Lab Sample ID: 460-348810-7

Date Collected: 04/14/26 13:48

Matrix: Solid

Date Received: 04/14/26 16:45

Percent Solids: 87.9

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00074	U	0.00074	0.00017	mg/Kg	✱	04/15/26 17:46	04/17/26 13:49	1
1,1,2,2-Tetrachloroethane	0.00074	U	0.00074	0.00039	mg/Kg	✱	04/15/26 17:46	04/17/26 13:49	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00074	U	0.00074	0.00022	mg/Kg	✱	04/15/26 17:46	04/17/26 13:49	1
1,1,2-Trichloroethane	0.00074	U	0.00074	0.00045	mg/Kg	✱	04/15/26 17:46	04/17/26 13:49	1
1,1-Dichloroethane	0.00074	U	0.00074	0.00044	mg/Kg	✱	04/15/26 17:46	04/17/26 13:49	1
1,1-Dichloroethene	0.00074	U	0.00074	0.00017	mg/Kg	✱	04/15/26 17:46	04/17/26 13:49	1
1,2,3-Trichlorobenzene	0.00074	U	0.00074	0.00055	mg/Kg	✱	04/15/26 17:46	04/17/26 13:49	1
1,2,4-Trichlorobenzene	0.00074	U	0.00074	0.00027	mg/Kg	✱	04/15/26 17:46	04/17/26 13:49	1
1,2,4-Trimethylbenzene	0.00074	U	0.00074	0.00018	mg/Kg	✱	04/15/26 17:46	04/17/26 13:49	1
1,2-Dibromo-3-Chloropropane	0.00074	U	0.00074	0.00034	mg/Kg	✱	04/15/26 17:46	04/17/26 13:49	1
1,2-Dichlorobenzene	0.00074	U	0.00074	0.00027	mg/Kg	✱	04/15/26 17:46	04/17/26 13:49	1
1,2-Dichloroethane	0.00074	U	0.00074	0.00022	mg/Kg	✱	04/15/26 17:46	04/17/26 13:49	1
1,2-Dichloropropane	0.00074	U	0.00074	0.00031	mg/Kg	✱	04/15/26 17:46	04/17/26 13:49	1
1,3,5-Trimethylbenzene	0.00074	U	0.00074	0.00023	mg/Kg	✱	04/15/26 17:46	04/17/26 13:49	1
1,3-Dichlorobenzene	0.00074	U	0.00074	0.00027	mg/Kg	✱	04/15/26 17:46	04/17/26 13:49	1
1,4-Dichlorobenzene	0.00074	U	0.00074	0.00039	mg/Kg	✱	04/15/26 17:46	04/17/26 13:49	1
2-Butanone (MEK)	0.0037	U	0.0037	0.00027	mg/Kg	✱	04/15/26 17:46	04/17/26 13:49	1
2-Hexanone	0.0037	U	0.0037	0.0013	mg/Kg	✱	04/15/26 17:46	04/17/26 13:49	1
4-Methyl-2-pentanone (MIBK)	0.0037	U	0.0037	0.0012	mg/Kg	✱	04/15/26 17:46	04/17/26 13:49	1
Acetone	0.012		0.0045	0.0043	mg/Kg	✱	04/15/26 17:46	04/17/26 13:49	1
Benzene	0.00074	U	0.00074	0.00042	mg/Kg	✱	04/15/26 17:46	04/17/26 13:49	1
Bromoform	0.00074	U	0.00074	0.00032	mg/Kg	✱	04/15/26 17:46	04/17/26 13:49	1
Bromomethane	0.0015	U	0.0015	0.00074	mg/Kg	✱	04/15/26 17:46	04/17/26 13:49	1
Carbon disulfide	0.00074	U	0.00074	0.00020	mg/Kg	✱	04/15/26 17:46	04/17/26 13:49	1
Carbon tetrachloride	0.00074	U	0.00074	0.00029	mg/Kg	✱	04/15/26 17:46	04/17/26 13:49	1
Chlorobenzene	0.00074	U	0.00074	0.00038	mg/Kg	✱	04/15/26 17:46	04/17/26 13:49	1
Chlorobromomethane	0.00074	U	0.00074	0.00044	mg/Kg	✱	04/15/26 17:46	04/17/26 13:49	1
Chlorodibromomethane	0.00074	U	0.00074	0.00040	mg/Kg	✱	04/15/26 17:46	04/17/26 13:49	1
Chloroethane	0.00074	U	0.00074	0.00039	mg/Kg	✱	04/15/26 17:46	04/17/26 13:49	1
Chloroform	0.00074	U	0.00074	0.00072	mg/Kg	✱	04/15/26 17:46	04/17/26 13:49	1
Chloromethane	0.00074	U *	0.00074	0.00032	mg/Kg	✱	04/15/26 17:46	04/17/26 13:49	1
cis-1,2-Dichloroethene	0.00074	U	0.00074	0.00027	mg/Kg	✱	04/15/26 17:46	04/17/26 13:49	1
cis-1,3-Dichloropropene	0.00074	U	0.00074	0.00020	mg/Kg	✱	04/15/26 17:46	04/17/26 13:49	1
Cyclohexane	0.00074	U	0.00074	0.00016	mg/Kg	✱	04/15/26 17:46	04/17/26 13:49	1
Dichlorobromomethane	0.00074	U	0.00074	0.00019	mg/Kg	✱	04/15/26 17:46	04/17/26 13:49	1
Dichlorodifluoromethane	0.00074	U	0.00074	0.00025	mg/Kg	✱	04/15/26 17:46	04/17/26 13:49	1
Ethylbenzene	0.00074	U	0.00074	0.00035	mg/Kg	✱	04/15/26 17:46	04/17/26 13:49	1
Ethylene Dibromide	0.00074	U	0.00074	0.00037	mg/Kg	✱	04/15/26 17:46	04/17/26 13:49	1
Isopropylbenzene	0.00074	U	0.00074	0.00021	mg/Kg	✱	04/15/26 17:46	04/17/26 13:49	1
Methyl acetate	0.0037	U *	0.0037	0.0032	mg/Kg	✱	04/15/26 17:46	04/17/26 13:49	1
Methyl tert-butyl ether	0.00074	U	0.00074	0.00038	mg/Kg	✱	04/15/26 17:46	04/17/26 13:49	1
Methylcyclohexane	0.00074	U	0.00074	0.00037	mg/Kg	✱	04/15/26 17:46	04/17/26 13:49	1
Methylene Chloride	0.0015	U	0.0015	0.00085	mg/Kg	✱	04/15/26 17:46	04/17/26 13:49	1
m-Xylene & p-Xylene	0.00074	U	0.00074	0.00031	mg/Kg	✱	04/15/26 17:46	04/17/26 13:49	1
n-Butylbenzene	0.00074	U	0.00074	0.00022	mg/Kg	✱	04/15/26 17:46	04/17/26 13:49	1
N-Propylbenzene	0.00074	U	0.00074	0.00033	mg/Kg	✱	04/15/26 17:46	04/17/26 13:49	1
o-Xylene	0.00074	U	0.00074	0.00034	mg/Kg	✱	04/15/26 17:46	04/17/26 13:49	1
sec-Butylbenzene	0.00074	U	0.00074	0.00021	mg/Kg	✱	04/15/26 17:46	04/17/26 13:49	1
Styrene	0.00074	U	0.00074	0.00021	mg/Kg	✱	04/15/26 17:46	04/17/26 13:49	1

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Client Sample Results

Client: Haley & Aldrich Inc
Project/Site: Former Port Mobil

Job ID: 460-348810-1

Client Sample ID: AST04-ISS12_D

Lab Sample ID: 460-348810-7

Date Collected: 04/14/26 13:48

Matrix: Solid

Date Received: 04/14/26 16:45

Percent Solids: 87.9

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	0.00074	U	0.00074	0.00021	mg/Kg	✱	04/15/26 17:46	04/17/26 13:49	1
Tetrachloroethene	0.00074	U	0.00074	0.00023	mg/Kg	✱	04/15/26 17:46	04/17/26 13:49	1
Toluene	0.00074	U	0.00074	0.00017	mg/Kg	✱	04/15/26 17:46	04/17/26 13:49	1
trans-1,2-Dichloroethene	0.00074	U	0.00074	0.00018	mg/Kg	✱	04/15/26 17:46	04/17/26 13:49	1
trans-1,3-Dichloropropene	0.00074	U	0.00074	0.00020	mg/Kg	✱	04/15/26 17:46	04/17/26 13:49	1
Trichloroethene	0.00074	U	0.00074	0.00024	mg/Kg	✱	04/15/26 17:46	04/17/26 13:49	1
Trichlorofluoromethane	0.00074	U	0.00074	0.00030	mg/Kg	✱	04/15/26 17:46	04/17/26 13:49	1
Vinyl chloride	0.00074	U	0.00074	0.00041	mg/Kg	✱	04/15/26 17:46	04/17/26 13:49	1
Xylenes, Total	0.0015	U	0.0015	0.00013	mg/Kg	✱	04/15/26 17:46	04/17/26 13:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		65 - 138				04/15/26 17:46	04/17/26 13:49	1
4-Bromofluorobenzene	102		71 - 128				04/15/26 17:46	04/17/26 13:49	1
Dibromofluoromethane (Surr)	99		50 - 150				04/15/26 17:46	04/17/26 13:49	1
Toluene-d8 (Surr)	102		71 - 126				04/15/26 17:46	04/17/26 13:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	12.1		1.0	1.0	%			04/15/26 16:46	1
Percent Solids (EPA Moisture)	87.9		1.0	1.0	%			04/15/26 16:46	1

Client Sample ID: AST04-ISS13_A

Lab Sample ID: 460-348810-8

Date Collected: 04/14/26 13:52

Matrix: Solid

Date Received: 04/14/26 16:45

Percent Solids: 85.8

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00084	U	0.00084	0.00019	mg/Kg	✱	04/15/26 17:46	04/17/26 14:13	1
1,1,2,2-Tetrachloroethane	0.00084	U	0.00084	0.00044	mg/Kg	✱	04/15/26 17:46	04/17/26 14:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00084	U	0.00084	0.00025	mg/Kg	✱	04/15/26 17:46	04/17/26 14:13	1
1,1,2-Trichloroethane	0.00084	U	0.00084	0.00050	mg/Kg	✱	04/15/26 17:46	04/17/26 14:13	1
1,1-Dichloroethane	0.00084	U	0.00084	0.00050	mg/Kg	✱	04/15/26 17:46	04/17/26 14:13	1
1,1-Dichloroethene	0.00084	U	0.00084	0.00019	mg/Kg	✱	04/15/26 17:46	04/17/26 14:13	1
1,2,3-Trichlorobenzene	0.00084	U	0.00084	0.00062	mg/Kg	✱	04/15/26 17:46	04/17/26 14:13	1
1,2,4-Trichlorobenzene	0.00084	U	0.00084	0.00030	mg/Kg	✱	04/15/26 17:46	04/17/26 14:13	1
1,2,4-Trimethylbenzene	0.00084	U	0.00084	0.00021	mg/Kg	✱	04/15/26 17:46	04/17/26 14:13	1
1,2-Dibromo-3-Chloropropane	0.00084	U	0.00084	0.00038	mg/Kg	✱	04/15/26 17:46	04/17/26 14:13	1
1,2-Dichlorobenzene	0.00084	U	0.00084	0.00030	mg/Kg	✱	04/15/26 17:46	04/17/26 14:13	1
1,2-Dichloroethane	0.00084	U	0.00084	0.00025	mg/Kg	✱	04/15/26 17:46	04/17/26 14:13	1
1,2-Dichloropropane	0.00084	U	0.00084	0.00035	mg/Kg	✱	04/15/26 17:46	04/17/26 14:13	1
1,3,5-Trimethylbenzene	0.00084	U	0.00084	0.00026	mg/Kg	✱	04/15/26 17:46	04/17/26 14:13	1
1,3-Dichlorobenzene	0.00084	U	0.00084	0.00030	mg/Kg	✱	04/15/26 17:46	04/17/26 14:13	1
1,4-Dichlorobenzene	0.00084	U	0.00084	0.00043	mg/Kg	✱	04/15/26 17:46	04/17/26 14:13	1
2-Butanone (MEK)	0.0046		0.0042	0.00031	mg/Kg	✱	04/15/26 17:46	04/17/26 14:13	1
2-Hexanone	0.0042	U	0.0042	0.0014	mg/Kg	✱	04/15/26 17:46	04/17/26 14:13	1
4-Methyl-2-pentanone (MIBK)	0.0042	U	0.0042	0.0013	mg/Kg	✱	04/15/26 17:46	04/17/26 14:13	1
Acetone	0.028		0.0050	0.0048	mg/Kg	✱	04/15/26 17:46	04/17/26 14:13	1
Benzene	0.00084	U	0.00084	0.00047	mg/Kg	✱	04/15/26 17:46	04/17/26 14:13	1
Bromoform	0.00084	U	0.00084	0.00036	mg/Kg	✱	04/15/26 17:46	04/17/26 14:13	1
Bromomethane	0.0017	U	0.0017	0.00084	mg/Kg	✱	04/15/26 17:46	04/17/26 14:13	1

Eurofins Edison

Client Sample Results

Client: Haley & Aldrich Inc
Project/Site: Former Port Mobil

Job ID: 460-348810-1

Client Sample ID: AST04-ISS13_A

Lab Sample ID: 460-348810-8

Date Collected: 04/14/26 13:52

Matrix: Solid

Date Received: 04/14/26 16:45

Percent Solids: 85.8

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	0.0012		0.00084	0.00022	mg/Kg	✱	04/15/26 17:46	04/17/26 14:13	1
Carbon tetrachloride	0.00084	U	0.00084	0.00032	mg/Kg	✱	04/15/26 17:46	04/17/26 14:13	1
Chlorobenzene	0.00084	U	0.00084	0.00042	mg/Kg	✱	04/15/26 17:46	04/17/26 14:13	1
Chlorobromomethane	0.00084	U	0.00084	0.00050	mg/Kg	✱	04/15/26 17:46	04/17/26 14:13	1
Chlorodibromomethane	0.00084	U	0.00084	0.00045	mg/Kg	✱	04/15/26 17:46	04/17/26 14:13	1
Chloroethane	0.00084	U	0.00084	0.00044	mg/Kg	✱	04/15/26 17:46	04/17/26 14:13	1
Chloroform	0.00084	U	0.00084	0.00081	mg/Kg	✱	04/15/26 17:46	04/17/26 14:13	1
Chloromethane	0.00084	U *	0.00084	0.00036	mg/Kg	✱	04/15/26 17:46	04/17/26 14:13	1
cis-1,2-Dichloroethene	0.00084	U	0.00084	0.00030	mg/Kg	✱	04/15/26 17:46	04/17/26 14:13	1
cis-1,3-Dichloropropene	0.00084	U	0.00084	0.00023	mg/Kg	✱	04/15/26 17:46	04/17/26 14:13	1
Cyclohexane	0.00084	U	0.00084	0.00018	mg/Kg	✱	04/15/26 17:46	04/17/26 14:13	1
Dichlorobromomethane	0.00084	U	0.00084	0.00021	mg/Kg	✱	04/15/26 17:46	04/17/26 14:13	1
Dichlorodifluoromethane	0.00084	U	0.00084	0.00028	mg/Kg	✱	04/15/26 17:46	04/17/26 14:13	1
Ethylbenzene	0.00084	U	0.00084	0.00039	mg/Kg	✱	04/15/26 17:46	04/17/26 14:13	1
Ethylene Dibromide	0.00084	U	0.00084	0.00042	mg/Kg	✱	04/15/26 17:46	04/17/26 14:13	1
Isopropylbenzene	0.00084	U	0.00084	0.00024	mg/Kg	✱	04/15/26 17:46	04/17/26 14:13	1
Methyl acetate	0.0042	U *	0.0042	0.0036	mg/Kg	✱	04/15/26 17:46	04/17/26 14:13	1
Methyl tert-butyl ether	0.00084	U	0.00084	0.00043	mg/Kg	✱	04/15/26 17:46	04/17/26 14:13	1
Methylcyclohexane	0.00084	U	0.00084	0.00042	mg/Kg	✱	04/15/26 17:46	04/17/26 14:13	1
Methylene Chloride	0.0017	U	0.0017	0.00096	mg/Kg	✱	04/15/26 17:46	04/17/26 14:13	1
m-Xylene & p-Xylene	0.00084	U	0.00084	0.00035	mg/Kg	✱	04/15/26 17:46	04/17/26 14:13	1
n-Butylbenzene	0.00084	U	0.00084	0.00025	mg/Kg	✱	04/15/26 17:46	04/17/26 14:13	1
N-Propylbenzene	0.00084	U	0.00084	0.00038	mg/Kg	✱	04/15/26 17:46	04/17/26 14:13	1
o-Xylene	0.00084	U	0.00084	0.00039	mg/Kg	✱	04/15/26 17:46	04/17/26 14:13	1
sec-Butylbenzene	0.00084	U	0.00084	0.00024	mg/Kg	✱	04/15/26 17:46	04/17/26 14:13	1
Styrene	0.00084	U	0.00084	0.00023	mg/Kg	✱	04/15/26 17:46	04/17/26 14:13	1
tert-Butylbenzene	0.00084	U	0.00084	0.00023	mg/Kg	✱	04/15/26 17:46	04/17/26 14:13	1
Tetrachloroethene	0.00084	U	0.00084	0.00025	mg/Kg	✱	04/15/26 17:46	04/17/26 14:13	1
Toluene	0.00084	U	0.00084	0.00020	mg/Kg	✱	04/15/26 17:46	04/17/26 14:13	1
trans-1,2-Dichloroethene	0.00084	U	0.00084	0.00021	mg/Kg	✱	04/15/26 17:46	04/17/26 14:13	1
trans-1,3-Dichloropropene	0.00084	U	0.00084	0.00022	mg/Kg	✱	04/15/26 17:46	04/17/26 14:13	1
Trichloroethene	0.00084	U	0.00084	0.00027	mg/Kg	✱	04/15/26 17:46	04/17/26 14:13	1
Trichlorofluoromethane	0.00084	U	0.00084	0.00034	mg/Kg	✱	04/15/26 17:46	04/17/26 14:13	1
Vinyl chloride	0.00084	U	0.00084	0.00046	mg/Kg	✱	04/15/26 17:46	04/17/26 14:13	1
Xylenes, Total	0.0017	U	0.0017	0.00015	mg/Kg	✱	04/15/26 17:46	04/17/26 14:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		65 - 138				04/15/26 17:46	04/17/26 14:13	1
4-Bromofluorobenzene	103		71 - 128				04/15/26 17:46	04/17/26 14:13	1
Dibromofluoromethane (Surr)	100		50 - 150				04/15/26 17:46	04/17/26 14:13	1
Toluene-d8 (Surr)	103		71 - 126				04/15/26 17:46	04/17/26 14:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	14.2		1.0	1.0	%			04/15/26 16:46	1
Percent Solids (EPA Moisture)	85.8		1.0	1.0	%			04/15/26 16:46	1

Eurofins Edison

Client Sample Results

Client: Haley & Aldrich Inc
Project/Site: Former Port Mobil

Job ID: 460-348810-1

Client Sample ID: AST04-ISS13_B

Lab Sample ID: 460-348810-9

Date Collected: 04/14/26 13:55

Matrix: Solid

Date Received: 04/14/26 16:45

Percent Solids: 89.2

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00070	U	0.00070	0.00016	mg/Kg	✱	04/15/26 17:47	04/17/26 14:36	1
1,1,2,2-Tetrachloroethane	0.00070	U	0.00070	0.00037	mg/Kg	✱	04/15/26 17:47	04/17/26 14:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00070	U	0.00070	0.00021	mg/Kg	✱	04/15/26 17:47	04/17/26 14:36	1
1,1,2-Trichloroethane	0.00070	U	0.00070	0.00042	mg/Kg	✱	04/15/26 17:47	04/17/26 14:36	1
1,1-Dichloroethane	0.00070	U	0.00070	0.00042	mg/Kg	✱	04/15/26 17:47	04/17/26 14:36	1
1,1-Dichloroethene	0.00070	U	0.00070	0.00016	mg/Kg	✱	04/15/26 17:47	04/17/26 14:36	1
1,2,3-Trichlorobenzene	0.00070	U	0.00070	0.00052	mg/Kg	✱	04/15/26 17:47	04/17/26 14:36	1
1,2,4-Trichlorobenzene	0.00070	U	0.00070	0.00025	mg/Kg	✱	04/15/26 17:47	04/17/26 14:36	1
1,2,4-Trimethylbenzene	0.010		0.00070	0.00017	mg/Kg	✱	04/15/26 17:47	04/17/26 14:36	1
1,2-Dibromo-3-Chloropropane	0.00070	U	0.00070	0.00032	mg/Kg	✱	04/15/26 17:47	04/17/26 14:36	1
1,2-Dichlorobenzene	0.00070	U	0.00070	0.00025	mg/Kg	✱	04/15/26 17:47	04/17/26 14:36	1
1,2-Dichloroethane	0.00070	U	0.00070	0.00021	mg/Kg	✱	04/15/26 17:47	04/17/26 14:36	1
1,2-Dichloropropane	0.00070	U	0.00070	0.00030	mg/Kg	✱	04/15/26 17:47	04/17/26 14:36	1
1,3,5-Trimethylbenzene	0.0035		0.00070	0.00022	mg/Kg	✱	04/15/26 17:47	04/17/26 14:36	1
1,3-Dichlorobenzene	0.00070	U	0.00070	0.00026	mg/Kg	✱	04/15/26 17:47	04/17/26 14:36	1
1,4-Dichlorobenzene	0.00070	U	0.00070	0.00036	mg/Kg	✱	04/15/26 17:47	04/17/26 14:36	1
2-Butanone (MEK)	0.0039		0.0035	0.00026	mg/Kg	✱	04/15/26 17:47	04/17/26 14:36	1
2-Hexanone	0.0035	U	0.0035	0.0012	mg/Kg	✱	04/15/26 17:47	04/17/26 14:36	1
4-Methyl-2-pentanone (MIBK)	0.0035	U	0.0035	0.0011	mg/Kg	✱	04/15/26 17:47	04/17/26 14:36	1
Acetone	0.032		0.0042	0.0040	mg/Kg	✱	04/15/26 17:47	04/17/26 14:36	1
Benzene	0.00070	U	0.00070	0.00040	mg/Kg	✱	04/15/26 17:47	04/17/26 14:36	1
Bromoform	0.00070	U	0.00070	0.00030	mg/Kg	✱	04/15/26 17:47	04/17/26 14:36	1
Bromomethane	0.0014	U	0.0014	0.00070	mg/Kg	✱	04/15/26 17:47	04/17/26 14:36	1
Carbon disulfide	0.00085		0.00070	0.00019	mg/Kg	✱	04/15/26 17:47	04/17/26 14:36	1
Carbon tetrachloride	0.00070	U	0.00070	0.00027	mg/Kg	✱	04/15/26 17:47	04/17/26 14:36	1
Chlorobenzene	0.00070	U	0.00070	0.00036	mg/Kg	✱	04/15/26 17:47	04/17/26 14:36	1
Chlorobromomethane	0.00070	U	0.00070	0.00042	mg/Kg	✱	04/15/26 17:47	04/17/26 14:36	1
Chlorodibromomethane	0.00070	U	0.00070	0.00038	mg/Kg	✱	04/15/26 17:47	04/17/26 14:36	1
Chloroethane	0.00070	U	0.00070	0.00037	mg/Kg	✱	04/15/26 17:47	04/17/26 14:36	1
Chloroform	0.00070	U	0.00070	0.00068	mg/Kg	✱	04/15/26 17:47	04/17/26 14:36	1
Chloromethane	0.00070	U *	0.00070	0.00031	mg/Kg	✱	04/15/26 17:47	04/17/26 14:36	1
cis-1,2-Dichloroethene	0.00070	U	0.00070	0.00025	mg/Kg	✱	04/15/26 17:47	04/17/26 14:36	1
cis-1,3-Dichloropropene	0.00070	U	0.00070	0.00019	mg/Kg	✱	04/15/26 17:47	04/17/26 14:36	1
Cyclohexane	0.00070	U	0.00070	0.00016	mg/Kg	✱	04/15/26 17:47	04/17/26 14:36	1
Dichlorobromomethane	0.00070	U	0.00070	0.00018	mg/Kg	✱	04/15/26 17:47	04/17/26 14:36	1
Dichlorodifluoromethane	0.00070	U	0.00070	0.00024	mg/Kg	✱	04/15/26 17:47	04/17/26 14:36	1
Ethylbenzene	0.0042		0.00070	0.00033	mg/Kg	✱	04/15/26 17:47	04/17/26 14:36	1
Ethylene Dibromide	0.00070	U	0.00070	0.00035	mg/Kg	✱	04/15/26 17:47	04/17/26 14:36	1
Isopropylbenzene	0.00062	J	0.00070	0.00020	mg/Kg	✱	04/15/26 17:47	04/17/26 14:36	1
Methyl acetate	0.0035	U *	0.0035	0.0030	mg/Kg	✱	04/15/26 17:47	04/17/26 14:36	1
Methyl tert-butyl ether	0.00070	U	0.00070	0.00036	mg/Kg	✱	04/15/26 17:47	04/17/26 14:36	1
Methylcyclohexane	0.0028		0.00070	0.00035	mg/Kg	✱	04/15/26 17:47	04/17/26 14:36	1
Methylene Chloride	0.0014	U	0.0014	0.00080	mg/Kg	✱	04/15/26 17:47	04/17/26 14:36	1
m-Xylene & p-Xylene	0.0079		0.00070	0.00030	mg/Kg	✱	04/15/26 17:47	04/17/26 14:36	1
n-Butylbenzene	0.00060	J	0.00070	0.00021	mg/Kg	✱	04/15/26 17:47	04/17/26 14:36	1
N-Propylbenzene	0.0017		0.00070	0.00032	mg/Kg	✱	04/15/26 17:47	04/17/26 14:36	1
o-Xylene	0.0068		0.00070	0.00032	mg/Kg	✱	04/15/26 17:47	04/17/26 14:36	1
sec-Butylbenzene	0.00070	U	0.00070	0.00020	mg/Kg	✱	04/15/26 17:47	04/17/26 14:36	1
Styrene	0.00070	U	0.00070	0.00020	mg/Kg	✱	04/15/26 17:47	04/17/26 14:36	1

Eurofins Edison

Client Sample Results

Client: Haley & Aldrich Inc
Project/Site: Former Port Mobil

Job ID: 460-348810-1

Client Sample ID: AST04-ISS13_B

Lab Sample ID: 460-348810-9

Date Collected: 04/14/26 13:55

Matrix: Solid

Date Received: 04/14/26 16:45

Percent Solids: 89.2

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	0.00070	U	0.00070	0.00019	mg/Kg	✱	04/15/26 17:47	04/17/26 14:36	1
Tetrachloroethene	0.00070	U	0.00070	0.00021	mg/Kg	✱	04/15/26 17:47	04/17/26 14:36	1
Toluene	0.0019		0.00070	0.00016	mg/Kg	✱	04/15/26 17:47	04/17/26 14:36	1
trans-1,2-Dichloroethene	0.00070	U	0.00070	0.00017	mg/Kg	✱	04/15/26 17:47	04/17/26 14:36	1
trans-1,3-Dichloropropene	0.00070	U	0.00070	0.00019	mg/Kg	✱	04/15/26 17:47	04/17/26 14:36	1
Trichloroethene	0.00070	U	0.00070	0.00023	mg/Kg	✱	04/15/26 17:47	04/17/26 14:36	1
Trichlorofluoromethane	0.00070	U	0.00070	0.00029	mg/Kg	✱	04/15/26 17:47	04/17/26 14:36	1
Vinyl chloride	0.00070	U	0.00070	0.00038	mg/Kg	✱	04/15/26 17:47	04/17/26 14:36	1
Xylenes, Total	0.015		0.0014	0.00012	mg/Kg	✱	04/15/26 17:47	04/17/26 14:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		65 - 138				04/15/26 17:47	04/17/26 14:36	1
4-Bromofluorobenzene	106		71 - 128				04/15/26 17:47	04/17/26 14:36	1
Dibromofluoromethane (Surr)	93		50 - 150				04/15/26 17:47	04/17/26 14:36	1
Toluene-d8 (Surr)	105		71 - 126				04/15/26 17:47	04/17/26 14:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	10.8		1.0	1.0	%			04/15/26 16:46	1
Percent Solids (EPA Moisture)	89.2		1.0	1.0	%			04/15/26 16:46	1

Client Sample ID: AST04-ISS13_C

Lab Sample ID: 460-348810-10

Date Collected: 04/14/26 13:58

Matrix: Solid

Date Received: 04/14/26 16:45

Percent Solids: 88.0

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00070	U	0.00070	0.00016	mg/Kg	✱	04/15/26 17:48	04/17/26 14:59	1
1,1,2,2-Tetrachloroethane	0.00070	U	0.00070	0.00036	mg/Kg	✱	04/15/26 17:48	04/17/26 14:59	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00070	U	0.00070	0.00021	mg/Kg	✱	04/15/26 17:48	04/17/26 14:59	1
1,1,2-Trichloroethane	0.00070	U	0.00070	0.00042	mg/Kg	✱	04/15/26 17:48	04/17/26 14:59	1
1,1-Dichloroethane	0.00070	U	0.00070	0.00042	mg/Kg	✱	04/15/26 17:48	04/17/26 14:59	1
1,1-Dichloroethene	0.00070	U	0.00070	0.00016	mg/Kg	✱	04/15/26 17:48	04/17/26 14:59	1
1,2,3-Trichlorobenzene	0.00070	U	0.00070	0.00052	mg/Kg	✱	04/15/26 17:48	04/17/26 14:59	1
1,2,4-Trichlorobenzene	0.00070	U	0.00070	0.00025	mg/Kg	✱	04/15/26 17:48	04/17/26 14:59	1
1,2,4-Trimethylbenzene	0.0016		0.00070	0.00017	mg/Kg	✱	04/15/26 17:48	04/17/26 14:59	1
1,2-Dibromo-3-Chloropropane	0.00070	U	0.00070	0.00032	mg/Kg	✱	04/15/26 17:48	04/17/26 14:59	1
1,2-Dichlorobenzene	0.00070	U	0.00070	0.00025	mg/Kg	✱	04/15/26 17:48	04/17/26 14:59	1
1,2-Dichloroethane	0.00070	U	0.00070	0.00021	mg/Kg	✱	04/15/26 17:48	04/17/26 14:59	1
1,2-Dichloropropane	0.00070	U	0.00070	0.00030	mg/Kg	✱	04/15/26 17:48	04/17/26 14:59	1
1,3,5-Trimethylbenzene	0.00084		0.00070	0.00022	mg/Kg	✱	04/15/26 17:48	04/17/26 14:59	1
1,3-Dichlorobenzene	0.00070	U	0.00070	0.00026	mg/Kg	✱	04/15/26 17:48	04/17/26 14:59	1
1,4-Dichlorobenzene	0.00070	U	0.00070	0.00036	mg/Kg	✱	04/15/26 17:48	04/17/26 14:59	1
2-Butanone (MEK)	0.0068		0.0035	0.00026	mg/Kg	✱	04/15/26 17:48	04/17/26 14:59	1
2-Hexanone	0.0035	U	0.0035	0.0012	mg/Kg	✱	04/15/26 17:48	04/17/26 14:59	1
4-Methyl-2-pentanone (MIBK)	0.0035	U	0.0035	0.0011	mg/Kg	✱	04/15/26 17:48	04/17/26 14:59	1
Acetone	0.024		0.0042	0.0040	mg/Kg	✱	04/15/26 17:48	04/17/26 14:59	1
Benzene	0.040		0.00070	0.00040	mg/Kg	✱	04/15/26 17:48	04/17/26 14:59	1
Bromoform	0.00070	U	0.00070	0.00030	mg/Kg	✱	04/15/26 17:48	04/17/26 14:59	1
Bromomethane	0.0014	U	0.0014	0.00070	mg/Kg	✱	04/15/26 17:48	04/17/26 14:59	1

Eurofins Edison

Client Sample Results

Client: Haley & Aldrich Inc
Project/Site: Former Port Mobil

Job ID: 460-348810-1

Client Sample ID: AST04-ISS13_C

Lab Sample ID: 460-348810-10

Date Collected: 04/14/26 13:58

Matrix: Solid

Date Received: 04/14/26 16:45

Percent Solids: 88.0

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	0.00070	U	0.00070	0.00019	mg/Kg	✳	04/15/26 17:48	04/17/26 14:59	1
Carbon tetrachloride	0.00070	U	0.00070	0.00027	mg/Kg	✳	04/15/26 17:48	04/17/26 14:59	1
Chlorobenzene	0.00070	U	0.00070	0.00035	mg/Kg	✳	04/15/26 17:48	04/17/26 14:59	1
Chlorobromomethane	0.00070	U	0.00070	0.00042	mg/Kg	✳	04/15/26 17:48	04/17/26 14:59	1
Chlorodibromomethane	0.00070	U	0.00070	0.00038	mg/Kg	✳	04/15/26 17:48	04/17/26 14:59	1
Chloroethane	0.00070	U	0.00070	0.00036	mg/Kg	✳	04/15/26 17:48	04/17/26 14:59	1
Chloroform	0.00070	U	0.00070	0.00068	mg/Kg	✳	04/15/26 17:48	04/17/26 14:59	1
Chloromethane	0.00070	U *	0.00070	0.00030	mg/Kg	✳	04/15/26 17:48	04/17/26 14:59	1
cis-1,2-Dichloroethene	0.00070	U	0.00070	0.00025	mg/Kg	✳	04/15/26 17:48	04/17/26 14:59	1
cis-1,3-Dichloropropene	0.00070	U	0.00070	0.00019	mg/Kg	✳	04/15/26 17:48	04/17/26 14:59	1
Cyclohexane	0.00070	U	0.00070	0.00015	mg/Kg	✳	04/15/26 17:48	04/17/26 14:59	1
Dichlorobromomethane	0.00070	U	0.00070	0.00018	mg/Kg	✳	04/15/26 17:48	04/17/26 14:59	1
Dichlorodifluoromethane	0.00070	U	0.00070	0.00024	mg/Kg	✳	04/15/26 17:48	04/17/26 14:59	1
Ethylbenzene	0.0039		0.00070	0.00033	mg/Kg	✳	04/15/26 17:48	04/17/26 14:59	1
Ethylene Dibromide	0.00070	U	0.00070	0.00035	mg/Kg	✳	04/15/26 17:48	04/17/26 14:59	1
Isopropylbenzene	0.00082		0.00070	0.00020	mg/Kg	✳	04/15/26 17:48	04/17/26 14:59	1
Methyl acetate	0.0035	U *	0.0035	0.0030	mg/Kg	✳	04/15/26 17:48	04/17/26 14:59	1
Methyl tert-butyl ether	0.00070	U	0.00070	0.00036	mg/Kg	✳	04/15/26 17:48	04/17/26 14:59	1
Methylcyclohexane	0.011		0.00070	0.00035	mg/Kg	✳	04/15/26 17:48	04/17/26 14:59	1
Methylene Chloride	0.0014	U	0.0014	0.00080	mg/Kg	✳	04/15/26 17:48	04/17/26 14:59	1
m-Xylene & p-Xylene	0.0029		0.00070	0.00030	mg/Kg	✳	04/15/26 17:48	04/17/26 14:59	1
n-Butylbenzene	0.00038	J	0.00070	0.00021	mg/Kg	✳	04/15/26 17:48	04/17/26 14:59	1
N-Propylbenzene	0.0012		0.00070	0.00031	mg/Kg	✳	04/15/26 17:48	04/17/26 14:59	1
o-Xylene	0.00045	J	0.00070	0.00032	mg/Kg	✳	04/15/26 17:48	04/17/26 14:59	1
sec-Butylbenzene	0.00052	J	0.00070	0.00020	mg/Kg	✳	04/15/26 17:48	04/17/26 14:59	1
Styrene	0.00070	U	0.00070	0.00019	mg/Kg	✳	04/15/26 17:48	04/17/26 14:59	1
tert-Butylbenzene	0.00070	U	0.00070	0.00019	mg/Kg	✳	04/15/26 17:48	04/17/26 14:59	1
Tetrachloroethene	0.00070	U	0.00070	0.00021	mg/Kg	✳	04/15/26 17:48	04/17/26 14:59	1
Toluene	0.00075		0.00070	0.00016	mg/Kg	✳	04/15/26 17:48	04/17/26 14:59	1
trans-1,2-Dichloroethene	0.00070	U	0.00070	0.00017	mg/Kg	✳	04/15/26 17:48	04/17/26 14:59	1
trans-1,3-Dichloropropene	0.00070	U	0.00070	0.00019	mg/Kg	✳	04/15/26 17:48	04/17/26 14:59	1
Trichloroethene	0.00070	U	0.00070	0.00022	mg/Kg	✳	04/15/26 17:48	04/17/26 14:59	1
Trichlorofluoromethane	0.00070	U	0.00070	0.00028	mg/Kg	✳	04/15/26 17:48	04/17/26 14:59	1
Vinyl chloride	0.00070	U	0.00070	0.00038	mg/Kg	✳	04/15/26 17:48	04/17/26 14:59	1
Xylenes, Total	0.0033		0.0014	0.00012	mg/Kg	✳	04/15/26 17:48	04/17/26 14:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		65 - 138	04/15/26 17:48	04/17/26 14:59	1
4-Bromofluorobenzene	108		71 - 128	04/15/26 17:48	04/17/26 14:59	1
Dibromofluoromethane (Surr)	88		50 - 150	04/15/26 17:48	04/17/26 14:59	1
Toluene-d8 (Surr)	101		71 - 126	04/15/26 17:48	04/17/26 14:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	12.0		1.0	1.0	%			04/15/26 16:46	1
Percent Solids (EPA Moisture)	88.0		1.0	1.0	%			04/15/26 16:46	1

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Client Sample Results

Client: Haley & Aldrich Inc
Project/Site: Former Port Mobil

Job ID: 460-348810-1

Client Sample ID: AST04-ISS14_A

Lab Sample ID: 460-348810-11

Date Collected: 04/14/26 14:02

Matrix: Solid

Date Received: 04/14/26 16:45

Percent Solids: 83.9

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00089	U	0.00089	0.00021	mg/Kg	☆	04/15/26 17:48	04/17/26 15:22	1
1,1,2,2-Tetrachloroethane	0.00089	U	0.00089	0.00047	mg/Kg	☆	04/15/26 17:48	04/17/26 15:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00089	U	0.00089	0.00027	mg/Kg	☆	04/15/26 17:48	04/17/26 15:22	1
1,1,2-Trichloroethane	0.00089	U	0.00089	0.00054	mg/Kg	☆	04/15/26 17:48	04/17/26 15:22	1
1,1-Dichloroethane	0.00089	U	0.00089	0.00053	mg/Kg	☆	04/15/26 17:48	04/17/26 15:22	1
1,1-Dichloroethene	0.00089	U	0.00089	0.00020	mg/Kg	☆	04/15/26 17:48	04/17/26 15:22	1
1,2,3-Trichlorobenzene	0.00089	U	0.00089	0.00066	mg/Kg	☆	04/15/26 17:48	04/17/26 15:22	1
1,2,4-Trichlorobenzene	0.00089	U	0.00089	0.00032	mg/Kg	☆	04/15/26 17:48	04/17/26 15:22	1
1,2,4-Trimethylbenzene	0.00089	U	0.00089	0.00022	mg/Kg	☆	04/15/26 17:48	04/17/26 15:22	1
1,2-Dibromo-3-Chloropropane	0.00089	U	0.00089	0.00041	mg/Kg	☆	04/15/26 17:48	04/17/26 15:22	1
1,2-Dichlorobenzene	0.00089	U	0.00089	0.00032	mg/Kg	☆	04/15/26 17:48	04/17/26 15:22	1
1,2-Dichloroethane	0.00089	U	0.00089	0.00026	mg/Kg	☆	04/15/26 17:48	04/17/26 15:22	1
1,2-Dichloropropane	0.00089	U	0.00089	0.00038	mg/Kg	☆	04/15/26 17:48	04/17/26 15:22	1
1,3,5-Trimethylbenzene	0.00089	U	0.00089	0.00028	mg/Kg	☆	04/15/26 17:48	04/17/26 15:22	1
1,3-Dichlorobenzene	0.00089	U	0.00089	0.00033	mg/Kg	☆	04/15/26 17:48	04/17/26 15:22	1
1,4-Dichlorobenzene	0.00089	U	0.00089	0.00046	mg/Kg	☆	04/15/26 17:48	04/17/26 15:22	1
2-Butanone (MEK)	0.0083		0.0045	0.00033	mg/Kg	☆	04/15/26 17:48	04/17/26 15:22	1
2-Hexanone	0.0045	U	0.0045	0.0015	mg/Kg	☆	04/15/26 17:48	04/17/26 15:22	1
4-Methyl-2-pentanone (MIBK)	0.0045	U	0.0045	0.0014	mg/Kg	☆	04/15/26 17:48	04/17/26 15:22	1
Acetone	0.011		0.0054	0.0051	mg/Kg	☆	04/15/26 17:48	04/17/26 15:22	1
Benzene	0.00079	J	0.00089	0.00051	mg/Kg	☆	04/15/26 17:48	04/17/26 15:22	1
Bromoform	0.00089	U	0.00089	0.00038	mg/Kg	☆	04/15/26 17:48	04/17/26 15:22	1
Bromomethane	0.0018	U	0.0018	0.00089	mg/Kg	☆	04/15/26 17:48	04/17/26 15:22	1
Carbon disulfide	0.00089	U	0.00089	0.00024	mg/Kg	☆	04/15/26 17:48	04/17/26 15:22	1
Carbon tetrachloride	0.00089	U	0.00089	0.00035	mg/Kg	☆	04/15/26 17:48	04/17/26 15:22	1
Chlorobenzene	0.00089	U	0.00089	0.00045	mg/Kg	☆	04/15/26 17:48	04/17/26 15:22	1
Chlorobromomethane	0.00089	U	0.00089	0.00053	mg/Kg	☆	04/15/26 17:48	04/17/26 15:22	1
Chlorodibromomethane	0.00089	U	0.00089	0.00048	mg/Kg	☆	04/15/26 17:48	04/17/26 15:22	1
Chloroethane	0.00089	U	0.00089	0.00047	mg/Kg	☆	04/15/26 17:48	04/17/26 15:22	1
Chloroform	0.00089	U	0.00089	0.00087	mg/Kg	☆	04/15/26 17:48	04/17/26 15:22	1
Chloromethane	0.00089	U *	0.00089	0.00039	mg/Kg	☆	04/15/26 17:48	04/17/26 15:22	1
cis-1,2-Dichloroethene	0.00089	U	0.00089	0.00032	mg/Kg	☆	04/15/26 17:48	04/17/26 15:22	1
cis-1,3-Dichloropropene	0.00089	U	0.00089	0.00024	mg/Kg	☆	04/15/26 17:48	04/17/26 15:22	1
Cyclohexane	0.00089	U	0.00089	0.00020	mg/Kg	☆	04/15/26 17:48	04/17/26 15:22	1
Dichlorobromomethane	0.00089	U	0.00089	0.00023	mg/Kg	☆	04/15/26 17:48	04/17/26 15:22	1
Dichlorodifluoromethane	0.00089	U	0.00089	0.00030	mg/Kg	☆	04/15/26 17:48	04/17/26 15:22	1
Ethylbenzene	0.00089	U	0.00089	0.00042	mg/Kg	☆	04/15/26 17:48	04/17/26 15:22	1
Ethylene Dibromide	0.00089	U	0.00089	0.00045	mg/Kg	☆	04/15/26 17:48	04/17/26 15:22	1
Isopropylbenzene	0.00089	U	0.00089	0.00025	mg/Kg	☆	04/15/26 17:48	04/17/26 15:22	1
Methyl acetate	0.0045	U *	0.0045	0.0038	mg/Kg	☆	04/15/26 17:48	04/17/26 15:22	1
Methyl tert-butyl ether	0.00089	U	0.00089	0.00046	mg/Kg	☆	04/15/26 17:48	04/17/26 15:22	1
Methylcyclohexane	0.0014		0.00089	0.00045	mg/Kg	☆	04/15/26 17:48	04/17/26 15:22	1
Methylene Chloride	0.0018	U	0.0018	0.0010	mg/Kg	☆	04/15/26 17:48	04/17/26 15:22	1
m-Xylene & p-Xylene	0.00089	U	0.00089	0.00038	mg/Kg	☆	04/15/26 17:48	04/17/26 15:22	1
n-Butylbenzene	0.00089	U	0.00089	0.00026	mg/Kg	☆	04/15/26 17:48	04/17/26 15:22	1
N-Propylbenzene	0.00089	U	0.00089	0.00040	mg/Kg	☆	04/15/26 17:48	04/17/26 15:22	1
o-Xylene	0.00089	U	0.00089	0.00041	mg/Kg	☆	04/15/26 17:48	04/17/26 15:22	1
sec-Butylbenzene	0.00089	U	0.00089	0.00026	mg/Kg	☆	04/15/26 17:48	04/17/26 15:22	1
Styrene	0.00089	U	0.00089	0.00025	mg/Kg	☆	04/15/26 17:48	04/17/26 15:22	1

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Client Sample Results

Client: Haley & Aldrich Inc
Project/Site: Former Port Mobil

Job ID: 460-348810-1

Client Sample ID: AST04-ISS14_A

Lab Sample ID: 460-348810-11

Date Collected: 04/14/26 14:02

Matrix: Solid

Date Received: 04/14/26 16:45

Percent Solids: 83.9

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	0.00089	U	0.00089	0.00025	mg/Kg	✱	04/15/26 17:48	04/17/26 15:22	1
Tetrachloroethene	0.00089	U	0.00089	0.00027	mg/Kg	✱	04/15/26 17:48	04/17/26 15:22	1
Toluene	0.00089	U	0.00089	0.00021	mg/Kg	✱	04/15/26 17:48	04/17/26 15:22	1
trans-1,2-Dichloroethene	0.00089	U	0.00089	0.00022	mg/Kg	✱	04/15/26 17:48	04/17/26 15:22	1
trans-1,3-Dichloropropene	0.00089	U	0.00089	0.00024	mg/Kg	✱	04/15/26 17:48	04/17/26 15:22	1
Trichloroethene	0.00089	U	0.00089	0.00029	mg/Kg	✱	04/15/26 17:48	04/17/26 15:22	1
Trichlorofluoromethane	0.00089	U	0.00089	0.00036	mg/Kg	✱	04/15/26 17:48	04/17/26 15:22	1
Vinyl chloride	0.00089	U	0.00089	0.00049	mg/Kg	✱	04/15/26 17:48	04/17/26 15:22	1
Xylenes, Total	0.0018	U	0.0018	0.00016	mg/Kg	✱	04/15/26 17:48	04/17/26 15:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		65 - 138				04/15/26 17:48	04/17/26 15:22	1
4-Bromofluorobenzene	106		71 - 128				04/15/26 17:48	04/17/26 15:22	1
Dibromofluoromethane (Surr)	96		50 - 150				04/15/26 17:48	04/17/26 15:22	1
Toluene-d8 (Surr)	101		71 - 126				04/15/26 17:48	04/17/26 15:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	16.1		1.0	1.0	%			04/15/26 16:46	1
Percent Solids (EPA Moisture)	83.9		1.0	1.0	%			04/15/26 16:46	1

Client Sample ID: AST04-ISS14_B

Lab Sample ID: 460-348810-12

Date Collected: 04/14/26 14:04

Matrix: Solid

Date Received: 04/14/26 16:45

Percent Solids: 94.3

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00079	U	0.00079	0.00018	mg/Kg	✱	04/15/26 17:49	04/17/26 23:29	1
1,1,2,2-Tetrachloroethane	0.00079	U	0.00079	0.00041	mg/Kg	✱	04/15/26 17:49	04/17/26 23:29	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00079	U	0.00079	0.00024	mg/Kg	✱	04/15/26 17:49	04/17/26 23:29	1
1,1,2-Trichloroethane	0.00079	U	0.00079	0.00047	mg/Kg	✱	04/15/26 17:49	04/17/26 23:29	1
1,1-Dichloroethane	0.00079	U *	0.00079	0.00047	mg/Kg	✱	04/15/26 17:49	04/17/26 23:29	1
1,1-Dichloroethene	0.00079	U	0.00079	0.00018	mg/Kg	✱	04/15/26 17:49	04/17/26 23:29	1
1,2,3-Trichlorobenzene	0.00079	U	0.00079	0.00058	mg/Kg	✱	04/15/26 17:49	04/17/26 23:29	1
1,2,4-Trichlorobenzene	0.00079	U	0.00079	0.00028	mg/Kg	✱	04/15/26 17:49	04/17/26 23:29	1
1,2,4-Trimethylbenzene	0.0013		0.00079	0.00019	mg/Kg	✱	04/15/26 17:49	04/17/26 23:29	1
1,2-Dibromo-3-Chloropropane	0.00079	U	0.00079	0.00036	mg/Kg	✱	04/15/26 17:49	04/17/26 23:29	1
1,2-Dichlorobenzene	0.00079	U	0.00079	0.00028	mg/Kg	✱	04/15/26 17:49	04/17/26 23:29	1
1,2-Dichloroethane	0.00079	U	0.00079	0.00023	mg/Kg	✱	04/15/26 17:49	04/17/26 23:29	1
1,2-Dichloropropane	0.00079	U *	0.00079	0.00033	mg/Kg	✱	04/15/26 17:49	04/17/26 23:29	1
1,3,5-Trimethylbenzene	0.0017		0.00079	0.00025	mg/Kg	✱	04/15/26 17:49	04/17/26 23:29	1
1,3-Dichlorobenzene	0.00079	U	0.00079	0.00029	mg/Kg	✱	04/15/26 17:49	04/17/26 23:29	1
1,4-Dichlorobenzene	0.00079	U	0.00079	0.00041	mg/Kg	✱	04/15/26 17:49	04/17/26 23:29	1
2-Butanone (MEK)	0.0033	J	0.0039	0.00029	mg/Kg	✱	04/15/26 17:49	04/17/26 23:29	1
2-Hexanone	0.0039	U	0.0039	0.0013	mg/Kg	✱	04/15/26 17:49	04/17/26 23:29	1
4-Methyl-2-pentanone (MIBK)	0.0039	U	0.0039	0.0012	mg/Kg	✱	04/15/26 17:49	04/17/26 23:29	1
Acetone	0.015		0.0047	0.0045	mg/Kg	✱	04/15/26 17:49	04/17/26 23:29	1
Benzene	0.061		0.00079	0.00045	mg/Kg	✱	04/15/26 17:49	04/17/26 23:29	1
Bromoform	0.00079	U	0.00079	0.00034	mg/Kg	✱	04/15/26 17:49	04/17/26 23:29	1
Bromomethane	0.0016	U	0.0016	0.00079	mg/Kg	✱	04/15/26 17:49	04/17/26 23:29	1

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Client Sample Results

Client: Haley & Aldrich Inc
Project/Site: Former Port Mobil

Job ID: 460-348810-1

Client Sample ID: AST04-ISS14_B

Lab Sample ID: 460-348810-12

Date Collected: 04/14/26 14:04

Matrix: Solid

Date Received: 04/14/26 16:45

Percent Solids: 94.3

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	0.00079	U	0.00079	0.00021	mg/Kg	✱	04/15/26 17:49	04/17/26 23:29	1
Carbon tetrachloride	0.00079	U	0.00079	0.00031	mg/Kg	✱	04/15/26 17:49	04/17/26 23:29	1
Chlorobenzene	0.00079	U	0.00079	0.00040	mg/Kg	✱	04/15/26 17:49	04/17/26 23:29	1
Chlorobromomethane	0.00079	U	0.00079	0.00047	mg/Kg	✱	04/15/26 17:49	04/17/26 23:29	1
Chlorodibromomethane	0.00079	U	0.00079	0.00042	mg/Kg	✱	04/15/26 17:49	04/17/26 23:29	1
Chloroethane	0.00079	U	0.00079	0.00041	mg/Kg	✱	04/15/26 17:49	04/17/26 23:29	1
Chloroform	0.00079	U	0.00079	0.00077	mg/Kg	✱	04/15/26 17:49	04/17/26 23:29	1
Chloromethane	0.00079	U *	0.00079	0.00034	mg/Kg	✱	04/15/26 17:49	04/17/26 23:29	1
cis-1,2-Dichloroethene	0.00079	U	0.00079	0.00028	mg/Kg	✱	04/15/26 17:49	04/17/26 23:29	1
cis-1,3-Dichloropropene	0.00079	U	0.00079	0.00022	mg/Kg	✱	04/15/26 17:49	04/17/26 23:29	1
Cyclohexane	0.00079	U	0.00079	0.00017	mg/Kg	✱	04/15/26 17:49	04/17/26 23:29	1
Dichlorobromomethane	0.00079	U	0.00079	0.00020	mg/Kg	✱	04/15/26 17:49	04/17/26 23:29	1
Dichlorodifluoromethane	0.00079	U	0.00079	0.00027	mg/Kg	✱	04/15/26 17:49	04/17/26 23:29	1
Ethylbenzene	0.013		0.00079	0.00037	mg/Kg	✱	04/15/26 17:49	04/17/26 23:29	1
Ethylene Dibromide	0.00079	U	0.00079	0.00040	mg/Kg	✱	04/15/26 17:49	04/17/26 23:29	1
Isopropylbenzene	0.0018		0.00079	0.00022	mg/Kg	✱	04/15/26 17:49	04/17/26 23:29	1
Methyl acetate	0.0039	U *	0.0039	0.0034	mg/Kg	✱	04/15/26 17:49	04/17/26 23:29	1
Methyl tert-butyl ether	0.00079	U	0.00079	0.00040	mg/Kg	✱	04/15/26 17:49	04/17/26 23:29	1
Methylcyclohexane	0.013		0.00079	0.00039	mg/Kg	✱	04/15/26 17:49	04/17/26 23:29	1
Methylene Chloride	0.0016	U	0.0016	0.00090	mg/Kg	✱	04/15/26 17:49	04/17/26 23:29	1
m-Xylene & p-Xylene	0.0080		0.00079	0.00033	mg/Kg	✱	04/15/26 17:49	04/17/26 23:29	1
n-Butylbenzene	0.0016		0.00079	0.00023	mg/Kg	✱	04/15/26 17:49	04/17/26 23:29	1
N-Propylbenzene	0.0040		0.00079	0.00035	mg/Kg	✱	04/15/26 17:49	04/17/26 23:29	1
o-Xylene	0.00079	U	0.00079	0.00036	mg/Kg	✱	04/15/26 17:49	04/17/26 23:29	1
sec-Butylbenzene	0.0011		0.00079	0.00023	mg/Kg	✱	04/15/26 17:49	04/17/26 23:29	1
Styrene	0.00079	U	0.00079	0.00022	mg/Kg	✱	04/15/26 17:49	04/17/26 23:29	1
tert-Butylbenzene	0.00079	U	0.00079	0.00022	mg/Kg	✱	04/15/26 17:49	04/17/26 23:29	1
Tetrachloroethene	0.00079	U	0.00079	0.00024	mg/Kg	✱	04/15/26 17:49	04/17/26 23:29	1
Toluene	0.0028		0.00079	0.00018	mg/Kg	✱	04/15/26 17:49	04/17/26 23:29	1
trans-1,2-Dichloroethene	0.00079	U	0.00079	0.00019	mg/Kg	✱	04/15/26 17:49	04/17/26 23:29	1
trans-1,3-Dichloropropene	0.00079	U	0.00079	0.00021	mg/Kg	✱	04/15/26 17:49	04/17/26 23:29	1
Trichloroethene	0.00079	U	0.00079	0.00025	mg/Kg	✱	04/15/26 17:49	04/17/26 23:29	1
Trichlorofluoromethane	0.00079	U	0.00079	0.00032	mg/Kg	✱	04/15/26 17:49	04/17/26 23:29	1
Vinyl chloride	0.00079	U	0.00079	0.00043	mg/Kg	✱	04/15/26 17:49	04/17/26 23:29	1
Xylenes, Total	0.0080		0.0016	0.00014	mg/Kg	✱	04/15/26 17:49	04/17/26 23:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		65 - 138	04/15/26 17:49	04/17/26 23:29	1
4-Bromofluorobenzene	107		71 - 128	04/15/26 17:49	04/17/26 23:29	1
Dibromofluoromethane (Surr)	89		50 - 150	04/15/26 17:49	04/17/26 23:29	1
Toluene-d8 (Surr)	106		71 - 126	04/15/26 17:49	04/17/26 23:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	5.7		1.0	1.0	%			04/15/26 16:46	1
Percent Solids (EPA Moisture)	94.3		1.0	1.0	%			04/15/26 16:46	1

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Client Sample Results

Client: Haley & Aldrich Inc
Project/Site: Former Port Mobil

Job ID: 460-348810-1

Client Sample ID: AST04-ISS14_C

Lab Sample ID: 460-348810-13

Date Collected: 04/14/26 14:06

Matrix: Solid

Date Received: 04/14/26 16:45

Percent Solids: 94.5

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00076	U	0.00076	0.00018	mg/Kg	✱	04/15/26 17:50	04/17/26 21:10	1
1,1,2,2-Tetrachloroethane	0.00076	U	0.00076	0.00039	mg/Kg	✱	04/15/26 17:50	04/17/26 21:10	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00076	U	0.00076	0.00023	mg/Kg	✱	04/15/26 17:50	04/17/26 21:10	1
1,1,2-Trichloroethane	0.00076	U	0.00076	0.00045	mg/Kg	✱	04/15/26 17:50	04/17/26 21:10	1
1,1-Dichloroethane	0.00076	U *	0.00076	0.00045	mg/Kg	✱	04/15/26 17:50	04/17/26 21:10	1
1,1-Dichloroethene	0.00076	U	0.00076	0.00017	mg/Kg	✱	04/15/26 17:50	04/17/26 21:10	1
1,2,3-Trichlorobenzene	0.00076	U	0.00076	0.00056	mg/Kg	✱	04/15/26 17:50	04/17/26 21:10	1
1,2,4-Trichlorobenzene	0.00076	U	0.00076	0.00027	mg/Kg	✱	04/15/26 17:50	04/17/26 21:10	1
1,2,4-Trimethylbenzene	0.00076	U	0.00076	0.00019	mg/Kg	✱	04/15/26 17:50	04/17/26 21:10	1
1,2-Dibromo-3-Chloropropane	0.00076	U	0.00076	0.00035	mg/Kg	✱	04/15/26 17:50	04/17/26 21:10	1
1,2-Dichlorobenzene	0.00076	U	0.00076	0.00027	mg/Kg	✱	04/15/26 17:50	04/17/26 21:10	1
1,2-Dichloroethane	0.00076	U	0.00076	0.00022	mg/Kg	✱	04/15/26 17:50	04/17/26 21:10	1
1,2-Dichloropropane	0.00076	U *	0.00076	0.00032	mg/Kg	✱	04/15/26 17:50	04/17/26 21:10	1
1,3,5-Trimethylbenzene	0.00076	U	0.00076	0.00024	mg/Kg	✱	04/15/26 17:50	04/17/26 21:10	1
1,3-Dichlorobenzene	0.00076	U	0.00076	0.00028	mg/Kg	✱	04/15/26 17:50	04/17/26 21:10	1
1,4-Dichlorobenzene	0.00076	U	0.00076	0.00039	mg/Kg	✱	04/15/26 17:50	04/17/26 21:10	1
2-Butanone (MEK)	0.0027	J	0.0038	0.00028	mg/Kg	✱	04/15/26 17:50	04/17/26 21:10	1
2-Hexanone	0.0038	U	0.0038	0.0013	mg/Kg	✱	04/15/26 17:50	04/17/26 21:10	1
4-Methyl-2-pentanone (MIBK)	0.0038	U	0.0038	0.0012	mg/Kg	✱	04/15/26 17:50	04/17/26 21:10	1
Acetone	0.0099		0.0045	0.0043	mg/Kg	✱	04/15/26 17:50	04/17/26 21:10	1
Benzene	0.018		0.00076	0.00043	mg/Kg	✱	04/15/26 17:50	04/17/26 21:10	1
Bromoform	0.00076	U	0.00076	0.00032	mg/Kg	✱	04/15/26 17:50	04/17/26 21:10	1
Bromomethane	0.0015	U	0.0015	0.00076	mg/Kg	✱	04/15/26 17:50	04/17/26 21:10	1
Carbon disulfide	0.00076	U	0.00076	0.00020	mg/Kg	✱	04/15/26 17:50	04/17/26 21:10	1
Carbon tetrachloride	0.00076	U	0.00076	0.00029	mg/Kg	✱	04/15/26 17:50	04/17/26 21:10	1
Chlorobenzene	0.00076	U	0.00076	0.00038	mg/Kg	✱	04/15/26 17:50	04/17/26 21:10	1
Chlorobromomethane	0.00076	U	0.00076	0.00045	mg/Kg	✱	04/15/26 17:50	04/17/26 21:10	1
Chlorodibromomethane	0.00076	U	0.00076	0.00041	mg/Kg	✱	04/15/26 17:50	04/17/26 21:10	1
Chloroethane	0.00076	U	0.00076	0.00039	mg/Kg	✱	04/15/26 17:50	04/17/26 21:10	1
Chloroform	0.00076	U	0.00076	0.00073	mg/Kg	✱	04/15/26 17:50	04/17/26 21:10	1
Chloromethane	0.00076	U *	0.00076	0.00033	mg/Kg	✱	04/15/26 17:50	04/17/26 21:10	1
cis-1,2-Dichloroethene	0.00076	U	0.00076	0.00027	mg/Kg	✱	04/15/26 17:50	04/17/26 21:10	1
cis-1,3-Dichloropropene	0.00076	U	0.00076	0.00021	mg/Kg	✱	04/15/26 17:50	04/17/26 21:10	1
Cyclohexane	0.00076	U	0.00076	0.00017	mg/Kg	✱	04/15/26 17:50	04/17/26 21:10	1
Dichlorobromomethane	0.00076	U	0.00076	0.00019	mg/Kg	✱	04/15/26 17:50	04/17/26 21:10	1
Dichlorodifluoromethane	0.00076	U	0.00076	0.00026	mg/Kg	✱	04/15/26 17:50	04/17/26 21:10	1
Ethylbenzene	0.0013		0.00076	0.00035	mg/Kg	✱	04/15/26 17:50	04/17/26 21:10	1
Ethylene Dibromide	0.00076	U	0.00076	0.00038	mg/Kg	✱	04/15/26 17:50	04/17/26 21:10	1
Isopropylbenzene	0.00043	J	0.00076	0.00022	mg/Kg	✱	04/15/26 17:50	04/17/26 21:10	1
Methyl acetate	0.0038	U *	0.0038	0.0033	mg/Kg	✱	04/15/26 17:50	04/17/26 21:10	1
Methyl tert-butyl ether	0.00076	U	0.00076	0.00039	mg/Kg	✱	04/15/26 17:50	04/17/26 21:10	1
Methylcyclohexane	0.0031		0.00076	0.00038	mg/Kg	✱	04/15/26 17:50	04/17/26 21:10	1
Methylene Chloride	0.0012	J	0.0015	0.00087	mg/Kg	✱	04/15/26 17:50	04/17/26 21:10	1
m-Xylene & p-Xylene	0.00059	J	0.00076	0.00032	mg/Kg	✱	04/15/26 17:50	04/17/26 21:10	1
n-Butylbenzene	0.00030	J	0.00076	0.00022	mg/Kg	✱	04/15/26 17:50	04/17/26 21:10	1
N-Propylbenzene	0.00084		0.00076	0.00034	mg/Kg	✱	04/15/26 17:50	04/17/26 21:10	1
o-Xylene	0.00076	U	0.00076	0.00035	mg/Kg	✱	04/15/26 17:50	04/17/26 21:10	1
sec-Butylbenzene	0.00040	J	0.00076	0.00022	mg/Kg	✱	04/15/26 17:50	04/17/26 21:10	1
Styrene	0.00076	U	0.00076	0.00021	mg/Kg	✱	04/15/26 17:50	04/17/26 21:10	1

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Client Sample Results

Client: Haley & Aldrich Inc
Project/Site: Former Port Mobil

Job ID: 460-348810-1

Client Sample ID: AST04-ISS14_C

Lab Sample ID: 460-348810-13

Date Collected: 04/14/26 14:06

Matrix: Solid

Date Received: 04/14/26 16:45

Percent Solids: 94.5

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	0.00076	U	0.00076	0.00021	mg/Kg	✱	04/15/26 17:50	04/17/26 21:10	1
Tetrachloroethene	0.00076	U	0.00076	0.00023	mg/Kg	✱	04/15/26 17:50	04/17/26 21:10	1
Toluene	0.00067	J	0.00076	0.00018	mg/Kg	✱	04/15/26 17:50	04/17/26 21:10	1
trans-1,2-Dichloroethene	0.00076	U	0.00076	0.00019	mg/Kg	✱	04/15/26 17:50	04/17/26 21:10	1
trans-1,3-Dichloropropene	0.00076	U	0.00076	0.00020	mg/Kg	✱	04/15/26 17:50	04/17/26 21:10	1
Trichloroethene	0.00076	U	0.00076	0.00024	mg/Kg	✱	04/15/26 17:50	04/17/26 21:10	1
Trichlorofluoromethane	0.00076	U	0.00076	0.00031	mg/Kg	✱	04/15/26 17:50	04/17/26 21:10	1
Vinyl chloride	0.00076	U	0.00076	0.00041	mg/Kg	✱	04/15/26 17:50	04/17/26 21:10	1
Xylenes, Total	0.00059	J	0.0015	0.00013	mg/Kg	✱	04/15/26 17:50	04/17/26 21:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		65 - 138				04/15/26 17:50	04/17/26 21:10	1
4-Bromofluorobenzene	105		71 - 128				04/15/26 17:50	04/17/26 21:10	1
Dibromofluoromethane (Surr)	92		50 - 150				04/15/26 17:50	04/17/26 21:10	1
Toluene-d8 (Surr)	103		71 - 126				04/15/26 17:50	04/17/26 21:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	5.5		1.0	1.0	%			04/15/26 16:46	1
Percent Solids (EPA Moisture)	94.5		1.0	1.0	%			04/15/26 16:46	1

Client Sample ID: AST04-ISS14_D

Lab Sample ID: 460-348810-14

Date Collected: 04/14/26 14:08

Matrix: Solid

Date Received: 04/14/26 16:45

Percent Solids: 91.6

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00082	U	0.00082	0.00019	mg/Kg	✱	04/15/26 17:50	04/17/26 21:33	1
1,1,2,2-Tetrachloroethane	0.00082	U	0.00082	0.00043	mg/Kg	✱	04/15/26 17:50	04/17/26 21:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00082	U	0.00082	0.00025	mg/Kg	✱	04/15/26 17:50	04/17/26 21:33	1
1,1,2-Trichloroethane	0.00082	U	0.00082	0.00049	mg/Kg	✱	04/15/26 17:50	04/17/26 21:33	1
1,1-Dichloroethane	0.00082	U *	0.00082	0.00049	mg/Kg	✱	04/15/26 17:50	04/17/26 21:33	1
1,1-Dichloroethene	0.00082	U	0.00082	0.00018	mg/Kg	✱	04/15/26 17:50	04/17/26 21:33	1
1,2,3-Trichlorobenzene	0.00082	U	0.00082	0.00060	mg/Kg	✱	04/15/26 17:50	04/17/26 21:33	1
1,2,4-Trichlorobenzene	0.00082	U	0.00082	0.00029	mg/Kg	✱	04/15/26 17:50	04/17/26 21:33	1
1,2,4-Trimethylbenzene	0.00082	U	0.00082	0.00020	mg/Kg	✱	04/15/26 17:50	04/17/26 21:33	1
1,2-Dibromo-3-Chloropropane	0.00082	U	0.00082	0.00038	mg/Kg	✱	04/15/26 17:50	04/17/26 21:33	1
1,2-Dichlorobenzene	0.00082	U	0.00082	0.00030	mg/Kg	✱	04/15/26 17:50	04/17/26 21:33	1
1,2-Dichloroethane	0.00082	U	0.00082	0.00024	mg/Kg	✱	04/15/26 17:50	04/17/26 21:33	1
1,2-Dichloropropane	0.00082	U *	0.00082	0.00035	mg/Kg	✱	04/15/26 17:50	04/17/26 21:33	1
1,3,5-Trimethylbenzene	0.00082	U	0.00082	0.00026	mg/Kg	✱	04/15/26 17:50	04/17/26 21:33	1
1,3-Dichlorobenzene	0.00082	U	0.00082	0.00030	mg/Kg	✱	04/15/26 17:50	04/17/26 21:33	1
1,4-Dichlorobenzene	0.00082	U	0.00082	0.00042	mg/Kg	✱	04/15/26 17:50	04/17/26 21:33	1
2-Butanone (MEK)	0.0031	J	0.0041	0.00030	mg/Kg	✱	04/15/26 17:50	04/17/26 21:33	1
2-Hexanone	0.0041	U	0.0041	0.0014	mg/Kg	✱	04/15/26 17:50	04/17/26 21:33	1
4-Methyl-2-pentanone (MIBK)	0.0041	U	0.0041	0.0013	mg/Kg	✱	04/15/26 17:50	04/17/26 21:33	1
Acetone	0.025		0.0049	0.0047	mg/Kg	✱	04/15/26 17:50	04/17/26 21:33	1
Benzene	0.00082	U	0.00082	0.00046	mg/Kg	✱	04/15/26 17:50	04/17/26 21:33	1
Bromoform	0.00082	U	0.00082	0.00035	mg/Kg	✱	04/15/26 17:50	04/17/26 21:33	1
Bromomethane	0.0016	U	0.0016	0.00082	mg/Kg	✱	04/15/26 17:50	04/17/26 21:33	1

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Client Sample Results

Client: Haley & Aldrich Inc
Project/Site: Former Port Mobil

Job ID: 460-348810-1

Client Sample ID: AST04-ISS14_D

Lab Sample ID: 460-348810-14

Date Collected: 04/14/26 14:08

Matrix: Solid

Date Received: 04/14/26 16:45

Percent Solids: 91.6

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	0.00082	U	0.00082	0.00022	mg/Kg	✱	04/15/26 17:50	04/17/26 21:33	1
Carbon tetrachloride	0.00082	U	0.00082	0.00032	mg/Kg	✱	04/15/26 17:50	04/17/26 21:33	1
Chlorobenzene	0.00082	U	0.00082	0.00041	mg/Kg	✱	04/15/26 17:50	04/17/26 21:33	1
Chlorobromomethane	0.00082	U	0.00082	0.00049	mg/Kg	✱	04/15/26 17:50	04/17/26 21:33	1
Chlorodibromomethane	0.00082	U	0.00082	0.00044	mg/Kg	✱	04/15/26 17:50	04/17/26 21:33	1
Chloroethane	0.00082	U	0.00082	0.00043	mg/Kg	✱	04/15/26 17:50	04/17/26 21:33	1
Chloroform	0.00082	U	0.00082	0.00079	mg/Kg	✱	04/15/26 17:50	04/17/26 21:33	1
Chloromethane	0.00082	U *	0.00082	0.00036	mg/Kg	✱	04/15/26 17:50	04/17/26 21:33	1
cis-1,2-Dichloroethene	0.00082	U	0.00082	0.00029	mg/Kg	✱	04/15/26 17:50	04/17/26 21:33	1
cis-1,3-Dichloropropene	0.00082	U	0.00082	0.00022	mg/Kg	✱	04/15/26 17:50	04/17/26 21:33	1
Cyclohexane	0.00082	U	0.00082	0.00018	mg/Kg	✱	04/15/26 17:50	04/17/26 21:33	1
Dichlorobromomethane	0.00082	U	0.00082	0.00021	mg/Kg	✱	04/15/26 17:50	04/17/26 21:33	1
Dichlorodifluoromethane	0.00082	U	0.00082	0.00028	mg/Kg	✱	04/15/26 17:50	04/17/26 21:33	1
Ethylbenzene	0.00082	U	0.00082	0.00038	mg/Kg	✱	04/15/26 17:50	04/17/26 21:33	1
Ethylene Dibromide	0.00082	U	0.00082	0.00041	mg/Kg	✱	04/15/26 17:50	04/17/26 21:33	1
Isopropylbenzene	0.00082	U	0.00082	0.00023	mg/Kg	✱	04/15/26 17:50	04/17/26 21:33	1
Methyl acetate	0.0041	U *	0.0041	0.0035	mg/Kg	✱	04/15/26 17:50	04/17/26 21:33	1
Methyl tert-butyl ether	0.00082	U	0.00082	0.00042	mg/Kg	✱	04/15/26 17:50	04/17/26 21:33	1
Methylcyclohexane	0.00082	U	0.00082	0.00041	mg/Kg	✱	04/15/26 17:50	04/17/26 21:33	1
Methylene Chloride	0.0016	U	0.0016	0.00094	mg/Kg	✱	04/15/26 17:50	04/17/26 21:33	1
m-Xylene & p-Xylene	0.00082	U	0.00082	0.00035	mg/Kg	✱	04/15/26 17:50	04/17/26 21:33	1
n-Butylbenzene	0.00082	U	0.00082	0.00024	mg/Kg	✱	04/15/26 17:50	04/17/26 21:33	1
N-Propylbenzene	0.00082	U	0.00082	0.00037	mg/Kg	✱	04/15/26 17:50	04/17/26 21:33	1
o-Xylene	0.00082	U	0.00082	0.00038	mg/Kg	✱	04/15/26 17:50	04/17/26 21:33	1
sec-Butylbenzene	0.00082	U	0.00082	0.00024	mg/Kg	✱	04/15/26 17:50	04/17/26 21:33	1
Styrene	0.00082	U	0.00082	0.00023	mg/Kg	✱	04/15/26 17:50	04/17/26 21:33	1
tert-Butylbenzene	0.00082	U	0.00082	0.00023	mg/Kg	✱	04/15/26 17:50	04/17/26 21:33	1
Tetrachloroethene	0.00082	U	0.00082	0.00025	mg/Kg	✱	04/15/26 17:50	04/17/26 21:33	1
Toluene	0.00082	U	0.00082	0.00019	mg/Kg	✱	04/15/26 17:50	04/17/26 21:33	1
trans-1,2-Dichloroethene	0.00082	U	0.00082	0.00020	mg/Kg	✱	04/15/26 17:50	04/17/26 21:33	1
trans-1,3-Dichloropropene	0.00082	U	0.00082	0.00022	mg/Kg	✱	04/15/26 17:50	04/17/26 21:33	1
Trichloroethene	0.00082	U	0.00082	0.00026	mg/Kg	✱	04/15/26 17:50	04/17/26 21:33	1
Trichlorofluoromethane	0.00082	U	0.00082	0.00033	mg/Kg	✱	04/15/26 17:50	04/17/26 21:33	1
Vinyl chloride	0.00082	U	0.00082	0.00045	mg/Kg	✱	04/15/26 17:50	04/17/26 21:33	1
Xylenes, Total	0.0016	U	0.0016	0.00014	mg/Kg	✱	04/15/26 17:50	04/17/26 21:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		65 - 138	04/15/26 17:50	04/17/26 21:33	1
4-Bromofluorobenzene	104		71 - 128	04/15/26 17:50	04/17/26 21:33	1
Dibromofluoromethane (Surr)	98		50 - 150	04/15/26 17:50	04/17/26 21:33	1
Toluene-d8 (Surr)	104		71 - 126	04/15/26 17:50	04/17/26 21:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	8.4		1.0	1.0	%			04/15/26 16:46	1
Percent Solids (EPA Moisture)	91.6		1.0	1.0	%			04/15/26 16:46	1

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Client Sample Results

Client: Haley & Aldrich Inc
Project/Site: Former Port Mobil

Job ID: 460-348810-1

Client Sample ID: AST04-ISS11_0-5

Lab Sample ID: 460-348810-15

Date Collected: 04/14/26 13:30

Matrix: Solid

Date Received: 04/14/26 16:45

Percent Solids: 84.8

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.39	U	0.39	0.0034	mg/Kg	✱	04/15/26 21:44	04/16/26 09:49	1
1,2,4,5-Tetrachlorobenzene	0.39	U	0.39	0.0087	mg/Kg	✱	04/15/26 21:44	04/16/26 09:49	1
1,4-Dioxane	0.039	U	0.039	0.030	mg/Kg	✱	04/15/26 21:44	04/16/26 09:49	1
2,2'-oxybis[1-chloropropane]	0.39	U	0.39	0.017	mg/Kg	✱	04/15/26 21:44	04/16/26 09:49	1
2,3,4,6-Tetrachlorophenol	0.39	U	0.39	0.0074	mg/Kg	✱	04/15/26 21:44	04/16/26 09:49	1
2,4,5-Trichlorophenol	0.39	U	0.39	0.018	mg/Kg	✱	04/15/26 21:44	04/16/26 09:49	1
2,4,6-Trichlorophenol	0.16	U	0.16	0.012	mg/Kg	✱	04/15/26 21:44	04/16/26 09:49	1
2,4-Dichlorophenol	0.16	U	0.16	0.023	mg/Kg	✱	04/15/26 21:44	04/16/26 09:49	1
2,4-Dimethylphenol	0.39	U	0.39	0.021	mg/Kg	✱	04/15/26 21:44	04/16/26 09:49	1
2,4-Dinitrophenol	0.31	U	0.31	0.15	mg/Kg	✱	04/15/26 21:44	04/16/26 09:49	1
2,4-Dinitrotoluene	0.079	U	0.079	0.015	mg/Kg	✱	04/15/26 21:44	04/16/26 09:49	1
2,6-Dinitrotoluene	0.079	U	0.079	0.013	mg/Kg	✱	04/15/26 21:44	04/16/26 09:49	1
2-Chloronaphthalene	0.39	U	0.39	0.0042	mg/Kg	✱	04/15/26 21:44	04/16/26 09:49	1
2-Chlorophenol	0.39	U	0.39	0.010	mg/Kg	✱	04/15/26 21:44	04/16/26 09:49	1
2-Methylnaphthalene	0.39	U	0.39	0.0057	mg/Kg	✱	04/15/26 21:44	04/16/26 09:49	1
2-Methylphenol	0.24	U	0.24	0.011	mg/Kg	✱	04/15/26 21:44	04/16/26 09:49	1
2-Nitroaniline	0.39	U	0.39	0.023	mg/Kg	✱	04/15/26 21:44	04/16/26 09:49	1
2-Nitrophenol	0.39	U	0.39	0.023	mg/Kg	✱	04/15/26 21:44	04/16/26 09:49	1
3 & 4 Methylphenol	0.24	U	0.24	0.024	mg/Kg	✱	04/15/26 21:44	04/16/26 09:49	1
3,3'-Dichlorobenzidine	0.16	U	0.16	0.016	mg/Kg	✱	04/15/26 21:44	04/16/26 09:49	1
3-Nitroaniline	0.39	U	0.39	0.027	mg/Kg	✱	04/15/26 21:44	04/16/26 09:49	1
4,6-Dinitro-2-methylphenol	0.31	U	0.31	0.026	mg/Kg	✱	04/15/26 21:44	04/16/26 09:49	1
4-Bromophenyl phenyl ether	0.39	U	0.39	0.0071	mg/Kg	✱	04/15/26 21:44	04/16/26 09:49	1
4-Chloro-3-methylphenol	0.39	U	0.39	0.018	mg/Kg	✱	04/15/26 21:44	04/16/26 09:49	1
4-Chloroaniline	0.39	U	0.39	0.018	mg/Kg	✱	04/15/26 21:44	04/16/26 09:49	1
4-Chlorophenyl phenyl ether	0.39	U	0.39	0.010	mg/Kg	✱	04/15/26 21:44	04/16/26 09:49	1
4-Methylphenol	0.39	U	0.39	0.020	mg/Kg	✱	04/15/26 21:44	04/16/26 09:49	1
4-Nitroaniline	0.39	U	0.39	0.025	mg/Kg	✱	04/15/26 21:44	04/16/26 09:49	1
4-Nitrophenol	0.79	U	0.79	0.050	mg/Kg	✱	04/15/26 21:44	04/16/26 09:49	1
Acenaphthene	0.39	U	0.39	0.0057	mg/Kg	✱	04/15/26 21:44	04/16/26 09:49	1
Acenaphthylene	0.39	U	0.39	0.0048	mg/Kg	✱	04/15/26 21:44	04/16/26 09:49	1
Acetophenone	0.39	U	0.39	0.016	mg/Kg	✱	04/15/26 21:44	04/16/26 09:49	1
Anthracene	0.39	U	0.39	0.0038	mg/Kg	✱	04/15/26 21:44	04/16/26 09:49	1
Atrazine	0.16	U	0.16	0.010	mg/Kg	✱	04/15/26 21:44	04/16/26 09:49	1
Benzaldehyde	0.39	U	0.39	0.017	mg/Kg	✱	04/15/26 21:44	04/16/26 09:49	1
Benzo[a]anthracene	0.039	U	0.039	0.0036	mg/Kg	✱	04/15/26 21:44	04/16/26 09:49	1
Benzo[a]pyrene	0.039	U	0.039	0.0071	mg/Kg	✱	04/15/26 21:44	04/16/26 09:49	1
Benzo[b]fluoranthene	0.039	U	0.039	0.0058	mg/Kg	✱	04/15/26 21:44	04/16/26 09:49	1
Benzo[g,h,i]perylene	0.39	U	0.39	0.0065	mg/Kg	✱	04/15/26 21:44	04/16/26 09:49	1
Benzo[k]fluoranthene	0.039	U	0.039	0.0059	mg/Kg	✱	04/15/26 21:44	04/16/26 09:49	1
Bis(2-chloroethoxy)methane	0.39	U	0.39	0.017	mg/Kg	✱	04/15/26 21:44	04/16/26 09:49	1
Bis(2-chloroethyl)ether	0.039	U	0.039	0.018	mg/Kg	✱	04/15/26 21:44	04/16/26 09:49	1
Bis(2-ethylhexyl) phthalate	0.39	U	0.39	0.013	mg/Kg	✱	04/15/26 21:44	04/16/26 09:49	1
Butyl benzyl phthalate	0.39	U	0.39	0.013	mg/Kg	✱	04/15/26 21:44	04/16/26 09:49	1
Caprolactam	0.39	U	0.39	0.024	mg/Kg	✱	04/15/26 21:44	04/16/26 09:49	1
Carbazole	0.39	U	0.39	0.011	mg/Kg	✱	04/15/26 21:44	04/16/26 09:49	1
Chrysene	0.39	U	0.39	0.0043	mg/Kg	✱	04/15/26 21:44	04/16/26 09:49	1
Dibenz(a,h)anthracene	0.039	U	0.039	0.0081	mg/Kg	✱	04/15/26 21:44	04/16/26 09:49	1
Dibenzofuran	0.39	U	0.39	0.0061	mg/Kg	✱	04/15/26 21:44	04/16/26 09:49	1

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Client Sample Results

Client: Haley & Aldrich Inc
Project/Site: Former Port Mobil

Job ID: 460-348810-1

Client Sample ID: AST04-ISS11_0-5

Lab Sample ID: 460-348810-15

Date Collected: 04/14/26 13:30

Matrix: Solid

Date Received: 04/14/26 16:45

Percent Solids: 84.8

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diethyl phthalate	0.39	U	0.39	0.0066	mg/Kg	✱	04/15/26 21:44	04/16/26 09:49	1
Dimethyl phthalate	0.39	U	0.39	0.0046	mg/Kg	✱	04/15/26 21:44	04/16/26 09:49	1
Di-n-butyl phthalate	0.39	U	0.39	0.0097	mg/Kg	✱	04/15/26 21:44	04/16/26 09:49	1
Di-n-octyl phthalate	0.39	U	0.39	0.017	mg/Kg	✱	04/15/26 21:44	04/16/26 09:49	1
Fluoranthene	0.39	U	0.39	0.0070	mg/Kg	✱	04/15/26 21:44	04/16/26 09:49	1
Fluorene	0.39	U	0.39	0.0072	mg/Kg	✱	04/15/26 21:44	04/16/26 09:49	1
Hexachlorobenzene	0.039	U	0.039	0.0072	mg/Kg	✱	04/15/26 21:44	04/16/26 09:49	1
Hexachlorobutadiene	0.079	U	0.079	0.0074	mg/Kg	✱	04/15/26 21:44	04/16/26 09:49	1
Hexachlorocyclopentadiene	0.39	U	0.39	0.022	mg/Kg	✱	04/15/26 21:44	04/16/26 09:49	1
Hexachloroethane	0.039	U	0.039	0.010	mg/Kg	✱	04/15/26 21:44	04/16/26 09:49	1
Indeno[1,2,3-cd]pyrene	0.039	U	0.039	0.026	mg/Kg	✱	04/15/26 21:44	04/16/26 09:49	1
Isophorone	0.16	U	0.16	0.0091	mg/Kg	✱	04/15/26 21:44	04/16/26 09:49	1
Naphthalene	0.39	U	0.39	0.0031	mg/Kg	✱	04/15/26 21:44	04/16/26 09:49	1
Nitrobenzene	0.039	U	0.039	0.018	mg/Kg	✱	04/15/26 21:44	04/16/26 09:49	1
N-Nitrosodi-n-propylamine	0.039	U	0.039	0.018	mg/Kg	✱	04/15/26 21:44	04/16/26 09:49	1
N-Nitrosodiphenylamine	0.39	U	0.39	0.0068	mg/Kg	✱	04/15/26 21:44	04/16/26 09:49	1
Pentachlorophenol	0.31	U	0.31	0.026	mg/Kg	✱	04/15/26 21:44	04/16/26 09:49	1
Phenanthrene	0.027	J	0.39	0.0066	mg/Kg	✱	04/15/26 21:44	04/16/26 09:49	1
Phenol	0.24	U	0.24	0.022	mg/Kg	✱	04/15/26 21:44	04/16/26 09:49	1
Pyrene	0.39	U	0.39	0.0063	mg/Kg	✱	04/15/26 21:44	04/16/26 09:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	56		18 - 137	04/15/26 21:44	04/16/26 09:49	1
2-Fluorobiphenyl	53		33 - 117	04/15/26 21:44	04/16/26 09:49	1
2-Fluorophenol (Surr)	56		24 - 120	04/15/26 21:44	04/16/26 09:49	1
Nitrobenzene-d5 (Surr)	55		27 - 120	04/15/26 21:44	04/16/26 09:49	1
Phenol-d5 (Surr)	53		28 - 118	04/15/26 21:44	04/16/26 09:49	1
Terphenyl-d14 (Surr)	58		33 - 124	04/15/26 21:44	04/16/26 09:49	1

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0024	U	0.0024	0.00096	mg/Kg	✱	04/16/26 10:13	04/17/26 13:03	1
4,4'-DDE	0.0024	U	0.0024	0.00061	mg/Kg	✱	04/16/26 10:13	04/17/26 13:03	1
4,4'-DDT	0.0024	U	0.0024	0.00080	mg/Kg	✱	04/16/26 10:13	04/17/26 13:03	1
Aldrin	0.0024	U	0.0024	0.00036	mg/Kg	✱	04/16/26 10:13	04/17/26 13:03	1
alpha-BHC	0.0024	U	0.0024	0.00039	mg/Kg	✱	04/16/26 10:13	04/17/26 13:03	1
beta-BHC	0.0024	U	0.0024	0.00047	mg/Kg	✱	04/16/26 10:13	04/17/26 13:03	1
Chlordane (technical)	0.079	U	0.079	0.019	mg/Kg	✱	04/16/26 10:13	04/17/26 13:03	1
cis-Chlordane	0.0024	U	0.0024	0.00024	mg/Kg	✱	04/16/26 10:13	04/17/26 13:03	1
delta-BHC	0.0024	U	0.0024	0.00033	mg/Kg	✱	04/16/26 10:13	04/17/26 13:03	1
Dieldrin	0.0024	U	0.0024	0.00067	mg/Kg	✱	04/16/26 10:13	04/17/26 13:03	1
Endosulfan I	0.0024	U	0.0024	0.00029	mg/Kg	✱	04/16/26 10:13	04/17/26 13:03	1
Endosulfan II	0.0024	U	0.0024	0.00040	mg/Kg	✱	04/16/26 10:13	04/17/26 13:03	1
Endosulfan sulfate	0.0024	U	0.0024	0.00051	mg/Kg	✱	04/16/26 10:13	04/17/26 13:03	1
Endrin	0.0024	U	0.0024	0.00023	mg/Kg	✱	04/16/26 10:13	04/17/26 13:03	1
Endrin aldehyde	0.0024	U	0.0024	0.00047	mg/Kg	✱	04/16/26 10:13	04/17/26 13:03	1
Endrin ketone	0.0024	U	0.0024	0.00036	mg/Kg	✱	04/16/26 10:13	04/17/26 13:03	1
gamma-BHC (Lindane)	0.0024	U	0.0024	0.00023	mg/Kg	✱	04/16/26 10:13	04/17/26 13:03	1
Heptachlor	0.0024	U	0.0024	0.00029	mg/Kg	✱	04/16/26 10:13	04/17/26 13:03	1
Heptachlor epoxide	0.0024	U	0.0024	0.00044	mg/Kg	✱	04/16/26 10:13	04/17/26 13:03	1

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Client Sample Results

Client: Haley & Aldrich Inc
Project/Site: Former Port Mobil

Job ID: 460-348810-1

Client Sample ID: AST04-ISS11_0-5

Lab Sample ID: 460-348810-15

Date Collected: 04/14/26 13:30

Matrix: Solid

Date Received: 04/14/26 16:45

Percent Solids: 84.8

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methoxychlor	0.0024	U	0.0024	0.00089	mg/Kg	✱	04/16/26 10:13	04/17/26 13:03	1
Toxaphene	0.079	U	0.079	0.028	mg/Kg	✱	04/16/26 10:13	04/17/26 13:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	83		10 - 150				04/16/26 10:13	04/17/26 13:03	1
DCB Decachlorobiphenyl	98		10 - 150				04/16/26 10:13	04/17/26 13:03	1
Tetrachloro-m-xylene	60		14 - 150				04/16/26 10:13	04/17/26 13:03	1
Tetrachloro-m-xylene	67		14 - 150				04/16/26 10:13	04/17/26 13:03	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.079	U	0.079	0.021	mg/Kg	✱	04/16/26 10:09	04/18/26 22:01	1
Aroclor 1221	0.079	U	0.079	0.021	mg/Kg	✱	04/16/26 10:09	04/18/26 22:01	1
Aroclor 1232	0.079	U	0.079	0.021	mg/Kg	✱	04/16/26 10:09	04/18/26 22:01	1
Aroclor 1242	0.079	U	0.079	0.021	mg/Kg	✱	04/16/26 10:09	04/18/26 22:01	1
Aroclor 1248	0.079	U	0.079	0.021	mg/Kg	✱	04/16/26 10:09	04/18/26 22:01	1
Aroclor 1254	0.079	U	0.079	0.021	mg/Kg	✱	04/16/26 10:09	04/18/26 22:01	1
Aroclor 1260	0.079	U	0.079	0.021	mg/Kg	✱	04/16/26 10:09	04/18/26 22:01	1
Aroclor-1262	0.079	U	0.079	0.021	mg/Kg	✱	04/16/26 10:09	04/18/26 22:01	1
Aroclor 1268	0.079	U	0.079	0.021	mg/Kg	✱	04/16/26 10:09	04/18/26 22:01	1
Polychlorinated biphenyls, Total	0.079	U	0.079	0.021	mg/Kg	✱	04/16/26 10:09	04/18/26 22:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	119		10 - 150				04/16/26 10:09	04/18/26 22:01	1
DCB Decachlorobiphenyl	114		10 - 150				04/16/26 10:09	04/18/26 22:01	1
Tetrachloro-m-xylene	82		10 - 150				04/16/26 10:09	04/18/26 22:01	1
Tetrachloro-m-xylene	94		10 - 150				04/16/26 10:09	04/18/26 22:01	1

Method: EPA 1633A - Per- and Polyfluoroalkyl Substances by LC/MS/MS, 1633A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.39	U	0.39	0.097	ug/Kg	✱	04/16/26 14:24	04/18/26 23:28	1
Perfluoropentanoic acid (PFPeA)	0.19	U	0.19	0.097	ug/Kg	✱	04/16/26 14:24	04/18/26 23:28	1
Perfluorohexanoic acid (PFHxA)	0.19	U	0.19	0.097	ug/Kg	✱	04/16/26 14:24	04/18/26 23:28	1
Perfluoroheptanoic acid (PFHpA)	0.19	U	0.19	0.097	ug/Kg	✱	04/16/26 14:24	04/18/26 23:28	1
Perfluorooctanoic acid (PFOA)	0.19	U	0.19	0.058	ug/Kg	✱	04/16/26 14:24	04/18/26 23:28	1
Perfluorononanoic acid (PFNA)	0.11	J	0.19	0.097	ug/Kg	✱	04/16/26 14:24	04/18/26 23:28	1
Perfluorodecanoic acid (PFDA)	0.19	U	0.19	0.058	ug/Kg	✱	04/16/26 14:24	04/18/26 23:28	1
Perfluoroundecanoic acid (PFUnA)	0.99		0.19	0.097	ug/Kg	✱	04/16/26 14:24	04/18/26 23:28	1
Perfluorododecanoic acid (PFDoA)	0.19	U	0.19	0.097	ug/Kg	✱	04/16/26 14:24	04/18/26 23:28	1
Perfluorotridecanoic acid (PFTrDA)	0.50		0.19	0.097	ug/Kg	✱	04/16/26 14:24	04/18/26 23:28	1
Perfluorotetradecanoic acid (PFTeDA)	0.19	U	0.19	0.097	ug/Kg	✱	04/16/26 14:24	04/18/26 23:28	1
Perfluorobutanesulfonic acid (PFBS)	0.19	U	0.19	0.097	ug/Kg	✱	04/16/26 14:24	04/18/26 23:28	1
Perfluoropentanesulfonic acid (PFPeS)	0.19	U	0.19	0.097	ug/Kg	✱	04/16/26 14:24	04/18/26 23:28	1
Perfluorohexanesulfonic acid (PFHxS)	0.19	U	0.19	0.097	ug/Kg	✱	04/16/26 14:24	04/18/26 23:28	1
Perfluoroheptanesulfonic acid (PFHpS)	0.19	U	0.19	0.097	ug/Kg	✱	04/16/26 14:24	04/18/26 23:28	1
Perfluorooctanesulfonic acid (PFOS)	0.19	U	0.19	0.097	ug/Kg	✱	04/16/26 14:24	04/18/26 23:28	1
Perfluorononanesulfonic acid (PFNS)	0.19	U	0.19	0.097	ug/Kg	✱	04/16/26 14:24	04/18/26 23:28	1

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Client Sample Results

Client: Haley & Aldrich Inc
Project/Site: Former Port Mobil

Job ID: 460-348810-1

Client Sample ID: AST04-ISS11_0-5

Lab Sample ID: 460-348810-15

Date Collected: 04/14/26 13:30

Matrix: Solid

Date Received: 04/14/26 16:45

Percent Solids: 84.8

Method: EPA 1633A - Per- and Polyfluoroalkyl Substances by LC/MS/MS, 1633A (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorodecanesulfonic acid (PFDS)	0.19	U	0.19	0.097	ug/Kg	☼	04/16/26 14:24	04/18/26 23:28	1
Perfluorododecanesulfonic acid (PFDoS)	0.19	U	0.19	0.097	ug/Kg	☼	04/16/26 14:24	04/18/26 23:28	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.39	U	0.39	0.19	ug/Kg	☼	04/16/26 14:24	04/18/26 23:28	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.39	U	0.39	0.19	ug/Kg	☼	04/16/26 14:24	04/18/26 23:28	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.39	U	0.39	0.19	ug/Kg	☼	04/16/26 14:24	04/18/26 23:28	1
Perfluorooctanesulfonamide (PFOSA)	0.19	U	0.19	0.097	ug/Kg	☼	04/16/26 14:24	04/18/26 23:28	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.19	U	0.19	0.097	ug/Kg	☼	04/16/26 14:24	04/18/26 23:28	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.19	U	0.19	0.097	ug/Kg	☼	04/16/26 14:24	04/18/26 23:28	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.19	U	0.19	0.097	ug/Kg	☼	04/16/26 14:24	04/18/26 23:28	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.19	U	0.19	0.097	ug/Kg	☼	04/16/26 14:24	04/18/26 23:28	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	0.97	U	0.97	0.49	ug/Kg	☼	04/16/26 14:24	04/18/26 23:28	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	0.97	U	0.97	0.49	ug/Kg	☼	04/16/26 14:24	04/18/26 23:28	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.19	U	0.19	0.097	ug/Kg	☼	04/16/26 14:24	04/18/26 23:28	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.19	U	0.19	0.097	ug/Kg	☼	04/16/26 14:24	04/18/26 23:28	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.19	U	0.19	0.097	ug/Kg	☼	04/16/26 14:24	04/18/26 23:28	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.19	U	0.19	0.097	ug/Kg	☼	04/16/26 14:24	04/18/26 23:28	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.19	U	0.19	0.097	ug/Kg	☼	04/16/26 14:24	04/18/26 23:28	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	0.19	U	0.19	0.097	ug/Kg	☼	04/16/26 14:24	04/18/26 23:28	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.19	U	0.19	0.097	ug/Kg	☼	04/16/26 14:24	04/18/26 23:28	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.19	U	0.19	0.097	ug/Kg	☼	04/16/26 14:24	04/18/26 23:28	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.39	U	0.39	0.19	ug/Kg	☼	04/16/26 14:24	04/18/26 23:28	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	0.97	U	0.97	0.49	ug/Kg	☼	04/16/26 14:24	04/18/26 23:28	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	0.97	U	0.97	0.49	ug/Kg	☼	04/16/26 14:24	04/18/26 23:28	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	93.9		8 - 130				04/16/26 14:24	04/18/26 23:28	1
13C5 PFPeA	88.0		35 - 130				04/16/26 14:24	04/18/26 23:28	1
13C5 PFHxA	94.6		40 - 130				04/16/26 14:24	04/18/26 23:28	1
13C4 PFHpA	88.5		40 - 130				04/16/26 14:24	04/18/26 23:28	1
13C8 PFOA	88.8		40 - 130				04/16/26 14:24	04/18/26 23:28	1
13C9 PFNA	92.0		40 - 130				04/16/26 14:24	04/18/26 23:28	1
13C6 PFDA	89.9		40 - 130				04/16/26 14:24	04/18/26 23:28	1
13C7 PFUnA	93.0		40 - 130				04/16/26 14:24	04/18/26 23:28	1
13C2 PFTeDA	91.7		20 - 130				04/16/26 14:24	04/18/26 23:28	1

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Client Sample Results

Client: Haley & Aldrich Inc
Project/Site: Former Port Mobil

Job ID: 460-348810-1

Client Sample ID: AST04-ISS11_0-5

Lab Sample ID: 460-348810-15

Date Collected: 04/14/26 13:30

Matrix: Solid

Date Received: 04/14/26 16:45

Percent Solids: 84.8

Method: EPA 1633A - Per- and Polyfluoroalkyl Substances by LC/MS/MS, 1633A (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 PFBS	91.1		40 - 135	04/16/26 14:24	04/18/26 23:28	1
13C3 PFHxS	89.5		40 - 130	04/16/26 14:24	04/18/26 23:28	1
13C8 PFOS	82.2		40 - 130	04/16/26 14:24	04/18/26 23:28	1
13C8 FOSA	85.3		40 - 130	04/16/26 14:24	04/18/26 23:28	1
d3-NMeFOSAA	87.1		40 - 135	04/16/26 14:24	04/18/26 23:28	1
d5-NEtFOSAA	82.2		40 - 150	04/16/26 14:24	04/18/26 23:28	1
13C2 4:2 FTS	111		40 - 165	04/16/26 14:24	04/18/26 23:28	1
13C2 6:2 FTS	112		40 - 215	04/16/26 14:24	04/18/26 23:28	1
13C2 8:2 FTS	253		40 - 275	04/16/26 14:24	04/18/26 23:28	1
13C3 HFPO-DA	83.8		40 - 130	04/16/26 14:24	04/18/26 23:28	1
d7-N-MeFOSE-M	69.6		20 - 130	04/16/26 14:24	04/18/26 23:28	1
d9-N-EtFOSE-M	61.6		15 - 130	04/16/26 14:24	04/18/26 23:28	1
d5-NEtPFOSA	75.9		10 - 130	04/16/26 14:24	04/18/26 23:28	1
d3-NMePFOSA	79.4		10 - 130	04/16/26 14:24	04/18/26 23:28	1
13C2 PFDoA	86.0		40 - 130	04/16/26 14:24	04/18/26 23:28	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9100		18.9	5.2	mg/Kg	✱	04/16/26 14:02	04/17/26 11:46	1
Antimony	0.30	J	0.94	0.057	mg/Kg	✱	04/16/26 14:02	04/17/26 11:46	1
Arsenic	3.9		0.94	0.097	mg/Kg	✱	04/16/26 14:02	04/17/26 11:46	1
Barium	58.3		1.9	0.14	mg/Kg	✱	04/16/26 14:02	04/17/26 11:46	1
Beryllium	0.55		0.38	0.021	mg/Kg	✱	04/16/26 14:02	04/17/26 11:46	1
Cadmium	0.67		0.47	0.11	mg/Kg	✱	04/16/26 14:02	04/17/26 11:46	1
Calcium	1210		94.3	9.2	mg/Kg	✱	04/16/26 14:02	04/17/26 11:46	1
Chromium	16.3		1.9	0.28	mg/Kg	✱	04/16/26 14:02	04/17/26 11:46	1
Cobalt	12.8		0.94	0.14	mg/Kg	✱	04/16/26 14:02	04/17/26 11:46	1
Copper	28.3		1.9	0.35	mg/Kg	✱	04/16/26 14:02	04/17/26 11:46	1
Iron	17600		56.6	7.2	mg/Kg	✱	04/16/26 14:02	04/17/26 11:46	1
Lead	144		0.57	0.19	mg/Kg	✱	04/16/26 14:02	04/17/26 11:46	1
Magnesium	2400		94.3	9.6	mg/Kg	✱	04/16/26 14:02	04/17/26 11:46	1
Manganese	237		3.8	0.38	mg/Kg	✱	04/16/26 14:02	04/17/26 11:46	1
Nickel	16.7		1.9	0.17	mg/Kg	✱	04/16/26 14:02	04/17/26 11:46	1
Potassium	1090		94.3	5.8	mg/Kg	✱	04/16/26 14:02	04/17/26 11:46	1
Selenium	0.23	J	1.2	0.12	mg/Kg	✱	04/16/26 14:02	04/17/26 11:46	1
Silver	0.38	U	0.38	0.084	mg/Kg	✱	04/16/26 14:02	04/17/26 11:46	1
Sodium	90.7	J	94.3	16.3	mg/Kg	✱	04/16/26 14:02	04/17/26 11:46	1
Thallium	0.097	J	0.38	0.039	mg/Kg	✱	04/16/26 14:02	04/17/26 11:46	1
Vanadium	20.2		1.9	0.19	mg/Kg	✱	04/16/26 14:02	04/17/26 11:46	1
Zinc	121		7.5	1.0	mg/Kg	✱	04/16/26 14:02	04/17/26 11:46	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.011	J	0.018	0.0064	mg/Kg	✱	04/20/26 02:12	04/20/26 12:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	15.2		1.0	1.0	%			04/15/26 19:54	1
Percent Solids (EPA Moisture)	84.8		1.0	1.0	%			04/15/26 19:54	1

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Client Sample Results

Client: Haley & Aldrich Inc
Project/Site: Former Port Mobil

Job ID: 460-348810-1

Client Sample ID: AST04-ISS12_0-6

Lab Sample ID: 460-348810-16

Date Collected: 04/14/26 13:40

Matrix: Solid

Date Received: 04/14/26 16:45

Percent Solids: 81.5

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.40	U	0.40	0.0035	mg/Kg	✱	04/15/26 21:44	04/16/26 10:07	1
1,2,4,5-Tetrachlorobenzene	0.40	U	0.40	0.0090	mg/Kg	✱	04/15/26 21:44	04/16/26 10:07	1
1,4-Dioxane	0.040	U	0.040	0.031	mg/Kg	✱	04/15/26 21:44	04/16/26 10:07	1
2,2'-oxybis[1-chloropropane]	0.40	U	0.40	0.018	mg/Kg	✱	04/15/26 21:44	04/16/26 10:07	1
2,3,4,6-Tetrachlorophenol	0.40	U	0.40	0.0077	mg/Kg	✱	04/15/26 21:44	04/16/26 10:07	1
2,4,5-Trichlorophenol	0.40	U	0.40	0.019	mg/Kg	✱	04/15/26 21:44	04/16/26 10:07	1
2,4,6-Trichlorophenol	0.16	U	0.16	0.013	mg/Kg	✱	04/15/26 21:44	04/16/26 10:07	1
2,4-Dichlorophenol	0.16	U	0.16	0.024	mg/Kg	✱	04/15/26 21:44	04/16/26 10:07	1
2,4-Dimethylphenol	0.40	U	0.40	0.021	mg/Kg	✱	04/15/26 21:44	04/16/26 10:07	1
2,4-Dinitrophenol	0.32	U	0.32	0.15	mg/Kg	✱	04/15/26 21:44	04/16/26 10:07	1
2,4-Dinitrotoluene	0.082	U	0.082	0.015	mg/Kg	✱	04/15/26 21:44	04/16/26 10:07	1
2,6-Dinitrotoluene	0.082	U	0.082	0.014	mg/Kg	✱	04/15/26 21:44	04/16/26 10:07	1
2-Chloronaphthalene	0.40	U	0.40	0.0044	mg/Kg	✱	04/15/26 21:44	04/16/26 10:07	1
2-Chlorophenol	0.40	U	0.40	0.010	mg/Kg	✱	04/15/26 21:44	04/16/26 10:07	1
2-Methylnaphthalene	0.40	U	0.40	0.0059	mg/Kg	✱	04/15/26 21:44	04/16/26 10:07	1
2-Methylphenol	0.24	U	0.24	0.012	mg/Kg	✱	04/15/26 21:44	04/16/26 10:07	1
2-Nitroaniline	0.40	U	0.40	0.023	mg/Kg	✱	04/15/26 21:44	04/16/26 10:07	1
2-Nitrophenol	0.40	U	0.40	0.024	mg/Kg	✱	04/15/26 21:44	04/16/26 10:07	1
3 & 4 Methylphenol	0.24	U	0.24	0.025	mg/Kg	✱	04/15/26 21:44	04/16/26 10:07	1
3,3'-Dichlorobenzidine	0.16	U	0.16	0.016	mg/Kg	✱	04/15/26 21:44	04/16/26 10:07	1
3-Nitroaniline	0.40	U	0.40	0.028	mg/Kg	✱	04/15/26 21:44	04/16/26 10:07	1
4,6-Dinitro-2-methylphenol	0.32	U	0.32	0.027	mg/Kg	✱	04/15/26 21:44	04/16/26 10:07	1
4-Bromophenyl phenyl ether	0.40	U	0.40	0.0074	mg/Kg	✱	04/15/26 21:44	04/16/26 10:07	1
4-Chloro-3-methylphenol	0.40	U	0.40	0.019	mg/Kg	✱	04/15/26 21:44	04/16/26 10:07	1
4-Chloroaniline	0.40	U	0.40	0.019	mg/Kg	✱	04/15/26 21:44	04/16/26 10:07	1
4-Chlorophenyl phenyl ether	0.40	U	0.40	0.011	mg/Kg	✱	04/15/26 21:44	04/16/26 10:07	1
4-Methylphenol	0.40	U	0.40	0.021	mg/Kg	✱	04/15/26 21:44	04/16/26 10:07	1
4-Nitroaniline	0.40	U	0.40	0.026	mg/Kg	✱	04/15/26 21:44	04/16/26 10:07	1
4-Nitrophenol	0.82	U	0.82	0.052	mg/Kg	✱	04/15/26 21:44	04/16/26 10:07	1
Acenaphthene	0.40	U	0.40	0.0059	mg/Kg	✱	04/15/26 21:44	04/16/26 10:07	1
Acenaphthylene	0.40	U	0.40	0.0050	mg/Kg	✱	04/15/26 21:44	04/16/26 10:07	1
Acetophenone	0.40	U	0.40	0.017	mg/Kg	✱	04/15/26 21:44	04/16/26 10:07	1
Anthracene	0.40	U	0.40	0.0039	mg/Kg	✱	04/15/26 21:44	04/16/26 10:07	1
Atrazine	0.16	U	0.16	0.011	mg/Kg	✱	04/15/26 21:44	04/16/26 10:07	1
Benzaldehyde	0.40	U	0.40	0.017	mg/Kg	✱	04/15/26 21:44	04/16/26 10:07	1
Benzo[a]anthracene	0.040	U	0.040	0.0038	mg/Kg	✱	04/15/26 21:44	04/16/26 10:07	1
Benzo[a]pyrene	0.040	U	0.040	0.0073	mg/Kg	✱	04/15/26 21:44	04/16/26 10:07	1
Benzo[b]fluoranthene	0.040	U	0.040	0.0060	mg/Kg	✱	04/15/26 21:44	04/16/26 10:07	1
Benzo[g,h,i]perylene	0.40	U	0.40	0.0067	mg/Kg	✱	04/15/26 21:44	04/16/26 10:07	1
Benzo[k]fluoranthene	0.040	U	0.040	0.0061	mg/Kg	✱	04/15/26 21:44	04/16/26 10:07	1
Bis(2-chloroethoxy)methane	0.40	U	0.40	0.018	mg/Kg	✱	04/15/26 21:44	04/16/26 10:07	1
Bis(2-chloroethyl)ether	0.040	U	0.040	0.018	mg/Kg	✱	04/15/26 21:44	04/16/26 10:07	1
Bis(2-ethylhexyl) phthalate	0.40	U	0.40	0.013	mg/Kg	✱	04/15/26 21:44	04/16/26 10:07	1
Butyl benzyl phthalate	0.40	U	0.40	0.014	mg/Kg	✱	04/15/26 21:44	04/16/26 10:07	1
Caprolactam	0.40	U	0.40	0.025	mg/Kg	✱	04/15/26 21:44	04/16/26 10:07	1
Carbazole	0.40	U	0.40	0.011	mg/Kg	✱	04/15/26 21:44	04/16/26 10:07	1
Chrysene	0.40	U	0.40	0.0044	mg/Kg	✱	04/15/26 21:44	04/16/26 10:07	1
Dibenz(a,h)anthracene	0.040	U	0.040	0.0083	mg/Kg	✱	04/15/26 21:44	04/16/26 10:07	1
Dibenzofuran	0.40	U	0.40	0.0064	mg/Kg	✱	04/15/26 21:44	04/16/26 10:07	1

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Client Sample Results

Client: Haley & Aldrich Inc
Project/Site: Former Port Mobil

Job ID: 460-348810-1

Client Sample ID: AST04-ISS12_0-6

Lab Sample ID: 460-348810-16

Date Collected: 04/14/26 13:40

Matrix: Solid

Date Received: 04/14/26 16:45

Percent Solids: 81.5

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diethyl phthalate	0.40	U	0.40	0.0069	mg/Kg	✱	04/15/26 21:44	04/16/26 10:07	1
Dimethyl phthalate	0.40	U	0.40	0.0047	mg/Kg	✱	04/15/26 21:44	04/16/26 10:07	1
Di-n-butyl phthalate	0.40	U	0.40	0.010	mg/Kg	✱	04/15/26 21:44	04/16/26 10:07	1
Di-n-octyl phthalate	0.40	U	0.40	0.018	mg/Kg	✱	04/15/26 21:44	04/16/26 10:07	1
Fluoranthene	0.40	U	0.40	0.0072	mg/Kg	✱	04/15/26 21:44	04/16/26 10:07	1
Fluorene	0.40	U	0.40	0.0074	mg/Kg	✱	04/15/26 21:44	04/16/26 10:07	1
Hexachlorobenzene	0.040	U	0.040	0.0075	mg/Kg	✱	04/15/26 21:44	04/16/26 10:07	1
Hexachlorobutadiene	0.082	U	0.082	0.0076	mg/Kg	✱	04/15/26 21:44	04/16/26 10:07	1
Hexachlorocyclopentadiene	0.40	U	0.40	0.022	mg/Kg	✱	04/15/26 21:44	04/16/26 10:07	1
Hexachloroethane	0.040	U	0.040	0.010	mg/Kg	✱	04/15/26 21:44	04/16/26 10:07	1
Indeno[1,2,3-cd]pyrene	0.040	U	0.040	0.027	mg/Kg	✱	04/15/26 21:44	04/16/26 10:07	1
Isophorone	0.16	U	0.16	0.0094	mg/Kg	✱	04/15/26 21:44	04/16/26 10:07	1
Naphthalene	0.40	U	0.40	0.0032	mg/Kg	✱	04/15/26 21:44	04/16/26 10:07	1
Nitrobenzene	0.040	U	0.040	0.018	mg/Kg	✱	04/15/26 21:44	04/16/26 10:07	1
N-Nitrosodi-n-propylamine	0.040	U	0.040	0.019	mg/Kg	✱	04/15/26 21:44	04/16/26 10:07	1
N-Nitrosodiphenylamine	0.40	U	0.40	0.0071	mg/Kg	✱	04/15/26 21:44	04/16/26 10:07	1
Pentachlorophenol	0.32	U	0.32	0.027	mg/Kg	✱	04/15/26 21:44	04/16/26 10:07	1
Phenanthrene	0.40	U	0.40	0.0068	mg/Kg	✱	04/15/26 21:44	04/16/26 10:07	1
Phenol	0.24	U	0.24	0.023	mg/Kg	✱	04/15/26 21:44	04/16/26 10:07	1
Pyrene	0.40	U	0.40	0.0065	mg/Kg	✱	04/15/26 21:44	04/16/26 10:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	54		18 - 137	04/15/26 21:44	04/16/26 10:07	1
2-Fluorobiphenyl	55		33 - 117	04/15/26 21:44	04/16/26 10:07	1
2-Fluorophenol (Surr)	57		24 - 120	04/15/26 21:44	04/16/26 10:07	1
Nitrobenzene-d5 (Surr)	58		27 - 120	04/15/26 21:44	04/16/26 10:07	1
Phenol-d5 (Surr)	56		28 - 118	04/15/26 21:44	04/16/26 10:07	1
Terphenyl-d14 (Surr)	59		33 - 124	04/15/26 21:44	04/16/26 10:07	1

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0024	U	0.0024	0.00099	mg/Kg	✱	04/16/26 10:13	04/17/26 13:16	1
4,4'-DDE	0.0024	U	0.0024	0.00063	mg/Kg	✱	04/16/26 10:13	04/17/26 13:16	1
4,4'-DDT	0.0024	U	0.0024	0.00083	mg/Kg	✱	04/16/26 10:13	04/17/26 13:16	1
Aldrin	0.0024	U	0.0024	0.00037	mg/Kg	✱	04/16/26 10:13	04/17/26 13:16	1
alpha-BHC	0.0024	U	0.0024	0.00041	mg/Kg	✱	04/16/26 10:13	04/17/26 13:16	1
beta-BHC	0.0024	U	0.0024	0.00049	mg/Kg	✱	04/16/26 10:13	04/17/26 13:16	1
Chlordane (technical)	0.082	U	0.082	0.020	mg/Kg	✱	04/16/26 10:13	04/17/26 13:16	1
cis-Chlordane	0.0024	U	0.0024	0.00025	mg/Kg	✱	04/16/26 10:13	04/17/26 13:16	1
delta-BHC	0.0024	U	0.0024	0.00035	mg/Kg	✱	04/16/26 10:13	04/17/26 13:16	1
Dieldrin	0.0024	U	0.0024	0.00070	mg/Kg	✱	04/16/26 10:13	04/17/26 13:16	1
Endosulfan I	0.0024	U	0.0024	0.00030	mg/Kg	✱	04/16/26 10:13	04/17/26 13:16	1
Endosulfan II	0.0024	U	0.0024	0.00042	mg/Kg	✱	04/16/26 10:13	04/17/26 13:16	1
Endosulfan sulfate	0.0024	U	0.0024	0.00053	mg/Kg	✱	04/16/26 10:13	04/17/26 13:16	1
Endrin	0.0024	U	0.0024	0.00024	mg/Kg	✱	04/16/26 10:13	04/17/26 13:16	1
Endrin aldehyde	0.0024	U	0.0024	0.00049	mg/Kg	✱	04/16/26 10:13	04/17/26 13:16	1
Endrin ketone	0.0024	U	0.0024	0.00037	mg/Kg	✱	04/16/26 10:13	04/17/26 13:16	1
gamma-BHC (Lindane)	0.0024	U	0.0024	0.00024	mg/Kg	✱	04/16/26 10:13	04/17/26 13:16	1
Heptachlor	0.0024	U	0.0024	0.00030	mg/Kg	✱	04/16/26 10:13	04/17/26 13:16	1
Heptachlor epoxide	0.0024	U	0.0024	0.00046	mg/Kg	✱	04/16/26 10:13	04/17/26 13:16	1

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Client Sample Results

Client: Haley & Aldrich Inc
Project/Site: Former Port Mobil

Job ID: 460-348810-1

Client Sample ID: AST04-ISS12_0-6

Lab Sample ID: 460-348810-16

Date Collected: 04/14/26 13:40

Matrix: Solid

Date Received: 04/14/26 16:45

Percent Solids: 81.5

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methoxychlor	0.0024	U	0.0024	0.00092	mg/Kg	✱	04/16/26 10:13	04/17/26 13:16	1
Toxaphene	0.082	U	0.082	0.030	mg/Kg	✱	04/16/26 10:13	04/17/26 13:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	65		10 - 150				04/16/26 10:13	04/17/26 13:16	1
DCB Decachlorobiphenyl	72		10 - 150				04/16/26 10:13	04/17/26 13:16	1
Tetrachloro-m-xylene	57		14 - 150				04/16/26 10:13	04/17/26 13:16	1
Tetrachloro-m-xylene	61		14 - 150				04/16/26 10:13	04/17/26 13:16	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.082	U	0.082	0.022	mg/Kg	✱	04/16/26 10:09	04/18/26 22:18	1
Aroclor 1221	0.082	U	0.082	0.022	mg/Kg	✱	04/16/26 10:09	04/18/26 22:18	1
Aroclor 1232	0.082	U	0.082	0.022	mg/Kg	✱	04/16/26 10:09	04/18/26 22:18	1
Aroclor 1242	0.082	U	0.082	0.022	mg/Kg	✱	04/16/26 10:09	04/18/26 22:18	1
Aroclor 1248	0.082	U	0.082	0.022	mg/Kg	✱	04/16/26 10:09	04/18/26 22:18	1
Aroclor 1254	0.082	U	0.082	0.022	mg/Kg	✱	04/16/26 10:09	04/18/26 22:18	1
Aroclor 1260	0.082	U	0.082	0.022	mg/Kg	✱	04/16/26 10:09	04/18/26 22:18	1
Aroclor-1262	0.082	U	0.082	0.022	mg/Kg	✱	04/16/26 10:09	04/18/26 22:18	1
Aroclor 1268	0.082	U	0.082	0.022	mg/Kg	✱	04/16/26 10:09	04/18/26 22:18	1
Polychlorinated biphenyls, Total	0.082	U	0.082	0.022	mg/Kg	✱	04/16/26 10:09	04/18/26 22:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	80		10 - 150				04/16/26 10:09	04/18/26 22:18	1
DCB Decachlorobiphenyl	80		10 - 150				04/16/26 10:09	04/18/26 22:18	1
Tetrachloro-m-xylene	78		10 - 150				04/16/26 10:09	04/18/26 22:18	1
Tetrachloro-m-xylene	82		10 - 150				04/16/26 10:09	04/18/26 22:18	1

Method: EPA 1633A - Per- and Polyfluoroalkyl Substances by LC/MS/MS, 1633A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.40	U	0.40	0.10	ug/Kg	✱	04/16/26 14:24	04/18/26 23:42	1
Perfluoropentanoic acid (PFPeA)	0.20	U	0.20	0.10	ug/Kg	✱	04/16/26 14:24	04/18/26 23:42	1
Perfluorohexanoic acid (PFHxA)	0.20	U	0.20	0.10	ug/Kg	✱	04/16/26 14:24	04/18/26 23:42	1
Perfluoroheptanoic acid (PFHpA)	0.20	U	0.20	0.10	ug/Kg	✱	04/16/26 14:24	04/18/26 23:42	1
Perfluorooctanoic acid (PFOA)	0.064	J	0.20	0.060	ug/Kg	✱	04/16/26 14:24	04/18/26 23:42	1
Perfluorononanoic acid (PFNA)	0.46		0.20	0.10	ug/Kg	✱	04/16/26 14:24	04/18/26 23:42	1
Perfluorodecanoic acid (PFDA)	0.20	U	0.20	0.060	ug/Kg	✱	04/16/26 14:24	04/18/26 23:42	1
Perfluoroundecanoic acid (PFUnA)	1.09		0.20	0.10	ug/Kg	✱	04/16/26 14:24	04/18/26 23:42	1
Perfluorododecanoic acid (PFDoA)	0.20	U	0.20	0.10	ug/Kg	✱	04/16/26 14:24	04/18/26 23:42	1
Perfluorotridecanoic acid (PFTrDA)	0.20	U	0.20	0.10	ug/Kg	✱	04/16/26 14:24	04/18/26 23:42	1
Perfluorotetradecanoic acid (PFTeDA)	0.20	U	0.20	0.10	ug/Kg	✱	04/16/26 14:24	04/18/26 23:42	1
Perfluorobutanesulfonic acid (PFBS)	0.20	U	0.20	0.10	ug/Kg	✱	04/16/26 14:24	04/18/26 23:42	1
Perfluoropentanesulfonic acid (PFPeS)	0.20	U	0.20	0.10	ug/Kg	✱	04/16/26 14:24	04/18/26 23:42	1
Perfluorohexanesulfonic acid (PFHxS)	0.20	U	0.20	0.10	ug/Kg	✱	04/16/26 14:24	04/18/26 23:42	1
Perfluoroheptanesulfonic acid (PFHpS)	0.20	U	0.20	0.10	ug/Kg	✱	04/16/26 14:24	04/18/26 23:42	1
Perfluorooctanesulfonic acid (PFOS)	0.20	U	0.20	0.10	ug/Kg	✱	04/16/26 14:24	04/18/26 23:42	1
Perfluorononanesulfonic acid (PFNS)	0.20	U	0.20	0.10	ug/Kg	✱	04/16/26 14:24	04/18/26 23:42	1
Perfluorodecanesulfonic acid (PFDS)	0.20	U	0.20	0.10	ug/Kg	✱	04/16/26 14:24	04/18/26 23:42	1

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Client Sample Results

Client: Haley & Aldrich Inc
Project/Site: Former Port Mobil

Job ID: 460-348810-1

Client Sample ID: AST04-ISS12_0-6

Lab Sample ID: 460-348810-16

Date Collected: 04/14/26 13:40

Matrix: Solid

Date Received: 04/14/26 16:45

Percent Solids: 81.5

Method: EPA 1633A - Per- and Polyfluoroalkyl Substances by LC/MS/MS, 1633A (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorododecanesulfonic acid (PFDoS)	0.20	U	0.20	0.10	ug/Kg	☼	04/16/26 14:24	04/18/26 23:42	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.40	U	0.40	0.20	ug/Kg	☼	04/16/26 14:24	04/18/26 23:42	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.40	U	0.40	0.20	ug/Kg	☼	04/16/26 14:24	04/18/26 23:42	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.40	U	0.40	0.20	ug/Kg	☼	04/16/26 14:24	04/18/26 23:42	1
Perfluorooctanesulfonamide (PFOSA)	0.20	U	0.20	0.10	ug/Kg	☼	04/16/26 14:24	04/18/26 23:42	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.20	U	0.20	0.10	ug/Kg	☼	04/16/26 14:24	04/18/26 23:42	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.20	U	0.20	0.10	ug/Kg	☼	04/16/26 14:24	04/18/26 23:42	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.20	U	0.20	0.10	ug/Kg	☼	04/16/26 14:24	04/18/26 23:42	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.20	U	0.20	0.10	ug/Kg	☼	04/16/26 14:24	04/18/26 23:42	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1.00	U	1.00	0.50	ug/Kg	☼	04/16/26 14:24	04/18/26 23:42	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1.00	U	1.00	0.50	ug/Kg	☼	04/16/26 14:24	04/18/26 23:42	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.20	U	0.20	0.10	ug/Kg	☼	04/16/26 14:24	04/18/26 23:42	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.20	U	0.20	0.10	ug/Kg	☼	04/16/26 14:24	04/18/26 23:42	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.20	U	0.20	0.10	ug/Kg	☼	04/16/26 14:24	04/18/26 23:42	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.20	U	0.20	0.10	ug/Kg	☼	04/16/26 14:24	04/18/26 23:42	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.20	U	0.20	0.10	ug/Kg	☼	04/16/26 14:24	04/18/26 23:42	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	0.20	U	0.20	0.10	ug/Kg	☼	04/16/26 14:24	04/18/26 23:42	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.20	U	0.20	0.10	ug/Kg	☼	04/16/26 14:24	04/18/26 23:42	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.20	U	0.20	0.10	ug/Kg	☼	04/16/26 14:24	04/18/26 23:42	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.40	U	0.40	0.20	ug/Kg	☼	04/16/26 14:24	04/18/26 23:42	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	1.00	U	1.00	0.50	ug/Kg	☼	04/16/26 14:24	04/18/26 23:42	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	1.00	U	1.00	0.50	ug/Kg	☼	04/16/26 14:24	04/18/26 23:42	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	104		8 - 130				04/16/26 14:24	04/18/26 23:42	1
13C5 PFPeA	95.3		35 - 130				04/16/26 14:24	04/18/26 23:42	1
13C5 PFHxA	98.6		40 - 130				04/16/26 14:24	04/18/26 23:42	1
13C4 PFHpA	95.6		40 - 130				04/16/26 14:24	04/18/26 23:42	1
13C8 PFOA	94.1		40 - 130				04/16/26 14:24	04/18/26 23:42	1
13C9 PFNA	89.0		40 - 130				04/16/26 14:24	04/18/26 23:42	1
13C6 PFDA	88.5		40 - 130				04/16/26 14:24	04/18/26 23:42	1
13C7 PFUnA	85.2		40 - 130				04/16/26 14:24	04/18/26 23:42	1
13C2 PFTeDA	61.1		20 - 130				04/16/26 14:24	04/18/26 23:42	1
13C3 PFBS	98.2		40 - 135				04/16/26 14:24	04/18/26 23:42	1

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Client Sample Results

Client: Haley & Aldrich Inc
Project/Site: Former Port Mobil

Job ID: 460-348810-1

Client Sample ID: AST04-ISS12_0-6

Lab Sample ID: 460-348810-16

Date Collected: 04/14/26 13:40

Matrix: Solid

Date Received: 04/14/26 16:45

Percent Solids: 81.5

Method: EPA 1633A - Per- and Polyfluoroalkyl Substances by LC/MS/MS, 1633A (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 PFHxS	94.3		40 - 130	04/16/26 14:24	04/18/26 23:42	1
13C8 PFOS	78.4		40 - 130	04/16/26 14:24	04/18/26 23:42	1
13C8 FOSA	78.8		40 - 130	04/16/26 14:24	04/18/26 23:42	1
d3-NMeFOSAA	77.3		40 - 135	04/16/26 14:24	04/18/26 23:42	1
d5-NEtFOSAA	73.5		40 - 150	04/16/26 14:24	04/18/26 23:42	1
13C2 4:2 FTS	169 *		40 - 165	04/16/26 14:24	04/18/26 23:42	1
13C2 6:2 FTS	137		40 - 215	04/16/26 14:24	04/18/26 23:42	1
13C2 8:2 FTS	213		40 - 275	04/16/26 14:24	04/18/26 23:42	1
13C3 HFPO-DA	90.3		40 - 130	04/16/26 14:24	04/18/26 23:42	1
d7-N-MeFOSE-M	48.8		20 - 130	04/16/26 14:24	04/18/26 23:42	1
d9-N-EtFOSE-M	43.6		15 - 130	04/16/26 14:24	04/18/26 23:42	1
d5-NEtPFOSA	63.1		10 - 130	04/16/26 14:24	04/18/26 23:42	1
d3-NMePFOSA	67.2		10 - 130	04/16/26 14:24	04/18/26 23:42	1
13C2 PFDoA	80.5		40 - 130	04/16/26 14:24	04/18/26 23:42	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	6860		23.6	6.5	mg/Kg	✱	04/16/26 14:02	04/17/26 11:48	1
Antimony	0.20	J	1.2	0.071	mg/Kg	✱	04/16/26 14:02	04/17/26 11:48	1
Arsenic	6.6		1.2	0.12	mg/Kg	✱	04/16/26 14:02	04/17/26 11:48	1
Barium	41.6		2.4	0.17	mg/Kg	✱	04/16/26 14:02	04/17/26 11:48	1
Beryllium	0.60		0.47	0.026	mg/Kg	✱	04/16/26 14:02	04/17/26 11:48	1
Cadmium	0.13	J	0.59	0.13	mg/Kg	✱	04/16/26 14:02	04/17/26 11:48	1
Calcium	1250		118	11.5	mg/Kg	✱	04/16/26 14:02	04/17/26 11:48	1
Chromium	15.9		2.4	0.35	mg/Kg	✱	04/16/26 14:02	04/17/26 11:48	1
Cobalt	9.0		1.2	0.17	mg/Kg	✱	04/16/26 14:02	04/17/26 11:48	1
Copper	20.0		2.4	0.43	mg/Kg	✱	04/16/26 14:02	04/17/26 11:48	1
Iron	22700		70.8	9.0	mg/Kg	✱	04/16/26 14:02	04/17/26 11:48	1
Lead	22.2		0.71	0.24	mg/Kg	✱	04/16/26 14:02	04/17/26 11:48	1
Magnesium	1860		118	12.0	mg/Kg	✱	04/16/26 14:02	04/17/26 11:48	1
Manganese	292		4.7	0.48	mg/Kg	✱	04/16/26 14:02	04/17/26 11:48	1
Nickel	12.0		2.4	0.21	mg/Kg	✱	04/16/26 14:02	04/17/26 11:48	1
Potassium	731		118	7.3	mg/Kg	✱	04/16/26 14:02	04/17/26 11:48	1
Selenium	0.42	J	1.5	0.15	mg/Kg	✱	04/16/26 14:02	04/17/26 11:48	1
Silver	0.47	U	0.47	0.11	mg/Kg	✱	04/16/26 14:02	04/17/26 11:48	1
Sodium	72.9	J	118	20.4	mg/Kg	✱	04/16/26 14:02	04/17/26 11:48	1
Thallium	0.093	J	0.47	0.048	mg/Kg	✱	04/16/26 14:02	04/17/26 11:48	1
Vanadium	28.4		2.4	0.24	mg/Kg	✱	04/16/26 14:02	04/17/26 11:48	1
Zinc	41.8		9.4	1.3	mg/Kg	✱	04/16/26 14:02	04/17/26 11:48	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.017	J	0.021	0.0074	mg/Kg	✱	04/20/26 02:12	04/20/26 12:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	18.5		1.0	1.0	%			04/15/26 19:54	1
Percent Solids (EPA Moisture)	81.5		1.0	1.0	%			04/15/26 19:54	1

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Client Sample Results

Client: Haley & Aldrich Inc
Project/Site: Former Port Mobil

Job ID: 460-348810-1

Client Sample ID: AST04-ISS13_0-6

Lab Sample ID: 460-348810-17

Date Collected: 04/14/26 13:50

Matrix: Solid

Date Received: 04/14/26 16:45

Percent Solids: 86.7

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.38	U	0.38	0.0033	mg/Kg	✱	04/15/26 21:44	04/16/26 12:14	1
1,2,4,5-Tetrachlorobenzene	0.38	U	0.38	0.0085	mg/Kg	✱	04/15/26 21:44	04/16/26 12:14	1
1,4-Dioxane	0.038	U	0.038	0.029	mg/Kg	✱	04/15/26 21:44	04/16/26 12:14	1
2,2'-oxybis[1-chloropropane]	0.38	U	0.38	0.017	mg/Kg	✱	04/15/26 21:44	04/16/26 12:14	1
2,3,4,6-Tetrachlorophenol	0.38	U	0.38	0.0073	mg/Kg	✱	04/15/26 21:44	04/16/26 12:14	1
2,4,5-Trichlorophenol	0.38	U	0.38	0.018	mg/Kg	✱	04/15/26 21:44	04/16/26 12:14	1
2,4,6-Trichlorophenol	0.15	U	0.15	0.012	mg/Kg	✱	04/15/26 21:44	04/16/26 12:14	1
2,4-Dichlorophenol	0.15	U	0.15	0.023	mg/Kg	✱	04/15/26 21:44	04/16/26 12:14	1
2,4-Dimethylphenol	0.38	U	0.38	0.020	mg/Kg	✱	04/15/26 21:44	04/16/26 12:14	1
2,4-Dinitrophenol	0.31	U	0.31	0.14	mg/Kg	✱	04/15/26 21:44	04/16/26 12:14	1
2,4-Dinitrotoluene	0.077	U	0.077	0.015	mg/Kg	✱	04/15/26 21:44	04/16/26 12:14	1
2,6-Dinitrotoluene	0.077	U	0.077	0.013	mg/Kg	✱	04/15/26 21:44	04/16/26 12:14	1
2-Chloronaphthalene	0.38	U	0.38	0.0041	mg/Kg	✱	04/15/26 21:44	04/16/26 12:14	1
2-Chlorophenol	0.38	U	0.38	0.0098	mg/Kg	✱	04/15/26 21:44	04/16/26 12:14	1
2-Methylnaphthalene	0.38	U	0.38	0.0056	mg/Kg	✱	04/15/26 21:44	04/16/26 12:14	1
2-Methylphenol	0.23	U	0.23	0.011	mg/Kg	✱	04/15/26 21:44	04/16/26 12:14	1
2-Nitroaniline	0.38	U	0.38	0.022	mg/Kg	✱	04/15/26 21:44	04/16/26 12:14	1
2-Nitrophenol	0.38	U	0.38	0.022	mg/Kg	✱	04/15/26 21:44	04/16/26 12:14	1
3 & 4 Methylphenol	0.23	U	0.23	0.024	mg/Kg	✱	04/15/26 21:44	04/16/26 12:14	1
3,3'-Dichlorobenzidine	0.15	U	0.15	0.015	mg/Kg	✱	04/15/26 21:44	04/16/26 12:14	1
3-Nitroaniline	0.38	U	0.38	0.027	mg/Kg	✱	04/15/26 21:44	04/16/26 12:14	1
4,6-Dinitro-2-methylphenol	0.31	U	0.31	0.026	mg/Kg	✱	04/15/26 21:44	04/16/26 12:14	1
4-Bromophenyl phenyl ether	0.38	U	0.38	0.0070	mg/Kg	✱	04/15/26 21:44	04/16/26 12:14	1
4-Chloro-3-methylphenol	0.38	U	0.38	0.017	mg/Kg	✱	04/15/26 21:44	04/16/26 12:14	1
4-Chloroaniline	0.38	U	0.38	0.018	mg/Kg	✱	04/15/26 21:44	04/16/26 12:14	1
4-Chlorophenyl phenyl ether	0.38	U	0.38	0.010	mg/Kg	✱	04/15/26 21:44	04/16/26 12:14	1
4-Methylphenol	0.38	U	0.38	0.020	mg/Kg	✱	04/15/26 21:44	04/16/26 12:14	1
4-Nitroaniline	0.38	U	0.38	0.024	mg/Kg	✱	04/15/26 21:44	04/16/26 12:14	1
4-Nitrophenol	0.77	U	0.77	0.049	mg/Kg	✱	04/15/26 21:44	04/16/26 12:14	1
Acenaphthene	0.38	U	0.38	0.0056	mg/Kg	✱	04/15/26 21:44	04/16/26 12:14	1
Acenaphthylene	0.38	U	0.38	0.0047	mg/Kg	✱	04/15/26 21:44	04/16/26 12:14	1
Acetophenone	0.38	U	0.38	0.016	mg/Kg	✱	04/15/26 21:44	04/16/26 12:14	1
Anthracene	0.38	U	0.38	0.0037	mg/Kg	✱	04/15/26 21:44	04/16/26 12:14	1
Atrazine	0.15	U	0.15	0.010	mg/Kg	✱	04/15/26 21:44	04/16/26 12:14	1
Benzaldehyde	0.38	U	0.38	0.016	mg/Kg	✱	04/15/26 21:44	04/16/26 12:14	1
Benzo[a]anthracene	0.038	U	0.038	0.0036	mg/Kg	✱	04/15/26 21:44	04/16/26 12:14	1
Benzo[a]pyrene	0.038	U	0.038	0.0069	mg/Kg	✱	04/15/26 21:44	04/16/26 12:14	1
Benzo[b]fluoranthene	0.038	U	0.038	0.0057	mg/Kg	✱	04/15/26 21:44	04/16/26 12:14	1
Benzo[g,h,i]perylene	0.38	U	0.38	0.0063	mg/Kg	✱	04/15/26 21:44	04/16/26 12:14	1
Benzo[k]fluoranthene	0.038	U	0.038	0.0057	mg/Kg	✱	04/15/26 21:44	04/16/26 12:14	1
Bis(2-chloroethoxy)methane	0.38	U	0.38	0.017	mg/Kg	✱	04/15/26 21:44	04/16/26 12:14	1
Bis(2-chloroethyl)ether	0.038	U	0.038	0.017	mg/Kg	✱	04/15/26 21:44	04/16/26 12:14	1
Bis(2-ethylhexyl) phthalate	0.38	U	0.38	0.013	mg/Kg	✱	04/15/26 21:44	04/16/26 12:14	1
Butyl benzyl phthalate	0.38	U	0.38	0.013	mg/Kg	✱	04/15/26 21:44	04/16/26 12:14	1
Caprolactam	0.38	U	0.38	0.024	mg/Kg	✱	04/15/26 21:44	04/16/26 12:14	1
Carbazole	0.38	U	0.38	0.011	mg/Kg	✱	04/15/26 21:44	04/16/26 12:14	1
Chrysene	0.38	U	0.38	0.0042	mg/Kg	✱	04/15/26 21:44	04/16/26 12:14	1
Dibenz(a,h)anthracene	0.038	U	0.038	0.0079	mg/Kg	✱	04/15/26 21:44	04/16/26 12:14	1
Dibenzofuran	0.38	U	0.38	0.0060	mg/Kg	✱	04/15/26 21:44	04/16/26 12:14	1

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Client Sample Results

Client: Haley & Aldrich Inc
Project/Site: Former Port Mobil

Job ID: 460-348810-1

Client Sample ID: AST04-ISS13_0-6

Lab Sample ID: 460-348810-17

Date Collected: 04/14/26 13:50

Matrix: Solid

Date Received: 04/14/26 16:45

Percent Solids: 86.7

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diethyl phthalate	0.38	U	0.38	0.0065	mg/Kg	✱	04/15/26 21:44	04/16/26 12:14	1
Dimethyl phthalate	0.38	U	0.38	0.0045	mg/Kg	✱	04/15/26 21:44	04/16/26 12:14	1
Di-n-butyl phthalate	0.38	U	0.38	0.0095	mg/Kg	✱	04/15/26 21:44	04/16/26 12:14	1
Di-n-octyl phthalate	0.38	U	0.38	0.017	mg/Kg	✱	04/15/26 21:44	04/16/26 12:14	1
Fluoranthene	0.38	U	0.38	0.0068	mg/Kg	✱	04/15/26 21:44	04/16/26 12:14	1
Fluorene	0.38	U	0.38	0.0070	mg/Kg	✱	04/15/26 21:44	04/16/26 12:14	1
Hexachlorobenzene	0.038	U	0.038	0.0071	mg/Kg	✱	04/15/26 21:44	04/16/26 12:14	1
Hexachlorobutadiene	0.077	U	0.077	0.0072	mg/Kg	✱	04/15/26 21:44	04/16/26 12:14	1
Hexachlorocyclopentadiene	0.38	U	0.38	0.021	mg/Kg	✱	04/15/26 21:44	04/16/26 12:14	1
Hexachloroethane	0.038	U	0.038	0.0099	mg/Kg	✱	04/15/26 21:44	04/16/26 12:14	1
Indeno[1,2,3-cd]pyrene	0.038	U	0.038	0.026	mg/Kg	✱	04/15/26 21:44	04/16/26 12:14	1
Isophorone	0.15	U	0.15	0.0089	mg/Kg	✱	04/15/26 21:44	04/16/26 12:14	1
Naphthalene	0.38	U	0.38	0.0030	mg/Kg	✱	04/15/26 21:44	04/16/26 12:14	1
Nitrobenzene	0.038	U	0.038	0.017	mg/Kg	✱	04/15/26 21:44	04/16/26 12:14	1
N-Nitrosodi-n-propylamine	0.038	U	0.038	0.018	mg/Kg	✱	04/15/26 21:44	04/16/26 12:14	1
N-Nitrosodiphenylamine	0.38	U	0.38	0.0067	mg/Kg	✱	04/15/26 21:44	04/16/26 12:14	1
Pentachlorophenol	0.31	U	0.31	0.026	mg/Kg	✱	04/15/26 21:44	04/16/26 12:14	1
Phenanthrene	0.38	U	0.38	0.0064	mg/Kg	✱	04/15/26 21:44	04/16/26 12:14	1
Phenol	0.23	U	0.23	0.021	mg/Kg	✱	04/15/26 21:44	04/16/26 12:14	1
Pyrene	0.38	U	0.38	0.0062	mg/Kg	✱	04/15/26 21:44	04/16/26 12:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	56		18 - 137	04/15/26 21:44	04/16/26 12:14	1
2-Fluorobiphenyl	52		33 - 117	04/15/26 21:44	04/16/26 12:14	1
2-Fluorophenol (Surr)	50		24 - 120	04/15/26 21:44	04/16/26 12:14	1
Nitrobenzene-d5 (Surr)	51		27 - 120	04/15/26 21:44	04/16/26 12:14	1
Phenol-d5 (Surr)	49		28 - 118	04/15/26 21:44	04/16/26 12:14	1
Terphenyl-d14 (Surr)	58		33 - 124	04/15/26 21:44	04/16/26 12:14	1

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0023	U	0.0023	0.00094	mg/Kg	✱	04/16/26 10:13	04/17/26 13:29	1
4,4'-DDE	0.0023	U	0.0023	0.00060	mg/Kg	✱	04/16/26 10:13	04/17/26 13:29	1
4,4'-DDT	0.0023	U	0.0023	0.00078	mg/Kg	✱	04/16/26 10:13	04/17/26 13:29	1
Aldrin	0.0023	U	0.0023	0.00035	mg/Kg	✱	04/16/26 10:13	04/17/26 13:29	1
alpha-BHC	0.0023	U	0.0023	0.00039	mg/Kg	✱	04/16/26 10:13	04/17/26 13:29	1
beta-BHC	0.0023	U	0.0023	0.00046	mg/Kg	✱	04/16/26 10:13	04/17/26 13:29	1
Chlordane (technical)	0.077	U	0.077	0.019	mg/Kg	✱	04/16/26 10:13	04/17/26 13:29	1
cis-Chlordane	0.0023	U	0.0023	0.00024	mg/Kg	✱	04/16/26 10:13	04/17/26 13:29	1
delta-BHC	0.0023	U	0.0023	0.00033	mg/Kg	✱	04/16/26 10:13	04/17/26 13:29	1
Dieldrin	0.0023	U	0.0023	0.00066	mg/Kg	✱	04/16/26 10:13	04/17/26 13:29	1
Endosulfan I	0.0023	U	0.0023	0.00028	mg/Kg	✱	04/16/26 10:13	04/17/26 13:29	1
Endosulfan II	0.0023	U	0.0023	0.00039	mg/Kg	✱	04/16/26 10:13	04/17/26 13:29	1
Endosulfan sulfate	0.0023	U	0.0023	0.00050	mg/Kg	✱	04/16/26 10:13	04/17/26 13:29	1
Endrin	0.0023	U	0.0023	0.00023	mg/Kg	✱	04/16/26 10:13	04/17/26 13:29	1
Endrin aldehyde	0.0023	U	0.0023	0.00046	mg/Kg	✱	04/16/26 10:13	04/17/26 13:29	1
Endrin ketone	0.0023	U	0.0023	0.00035	mg/Kg	✱	04/16/26 10:13	04/17/26 13:29	1
gamma-BHC (Lindane)	0.0023	U	0.0023	0.00022	mg/Kg	✱	04/16/26 10:13	04/17/26 13:29	1
Heptachlor	0.0023	U	0.0023	0.00028	mg/Kg	✱	04/16/26 10:13	04/17/26 13:29	1
Heptachlor epoxide	0.0023	U	0.0023	0.00043	mg/Kg	✱	04/16/26 10:13	04/17/26 13:29	1

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Client Sample Results

Client: Haley & Aldrich Inc
Project/Site: Former Port Mobil

Job ID: 460-348810-1

Client Sample ID: AST04-ISS13_0-6

Lab Sample ID: 460-348810-17

Date Collected: 04/14/26 13:50

Matrix: Solid

Date Received: 04/14/26 16:45

Percent Solids: 86.7

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methoxychlor	0.0023	U	0.0023	0.00087	mg/Kg	✱	04/16/26 10:13	04/17/26 13:29	1
Toxaphene	0.077	U	0.077	0.028	mg/Kg	✱	04/16/26 10:13	04/17/26 13:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	64		10 - 150				04/16/26 10:13	04/17/26 13:29	1
DCB Decachlorobiphenyl	65		10 - 150				04/16/26 10:13	04/17/26 13:29	1
Tetrachloro-m-xylene	60		14 - 150				04/16/26 10:13	04/17/26 13:29	1
Tetrachloro-m-xylene	60		14 - 150				04/16/26 10:13	04/17/26 13:29	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.077	U	0.077	0.020	mg/Kg	✱	04/16/26 10:09	04/18/26 22:36	1
Aroclor 1221	0.077	U	0.077	0.020	mg/Kg	✱	04/16/26 10:09	04/18/26 22:36	1
Aroclor 1232	0.077	U	0.077	0.020	mg/Kg	✱	04/16/26 10:09	04/18/26 22:36	1
Aroclor 1242	0.077	U	0.077	0.020	mg/Kg	✱	04/16/26 10:09	04/18/26 22:36	1
Aroclor 1248	0.077	U	0.077	0.020	mg/Kg	✱	04/16/26 10:09	04/18/26 22:36	1
Aroclor 1254	0.077	U	0.077	0.020	mg/Kg	✱	04/16/26 10:09	04/18/26 22:36	1
Aroclor 1260	0.077	U	0.077	0.020	mg/Kg	✱	04/16/26 10:09	04/18/26 22:36	1
Aroclor-1262	0.077	U	0.077	0.020	mg/Kg	✱	04/16/26 10:09	04/18/26 22:36	1
Aroclor 1268	0.077	U	0.077	0.020	mg/Kg	✱	04/16/26 10:09	04/18/26 22:36	1
Polychlorinated biphenyls, Total	0.077	U	0.077	0.020	mg/Kg	✱	04/16/26 10:09	04/18/26 22:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	84		10 - 150				04/16/26 10:09	04/18/26 22:36	1
DCB Decachlorobiphenyl	88		10 - 150				04/16/26 10:09	04/18/26 22:36	1
Tetrachloro-m-xylene	77		10 - 150				04/16/26 10:09	04/18/26 22:36	1
Tetrachloro-m-xylene	85		10 - 150				04/16/26 10:09	04/18/26 22:36	1

Method: EPA 1633A - Per- and Polyfluoroalkyl Substances by LC/MS/MS, 1633A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.38	U	0.38	0.096	ug/Kg	✱	04/16/26 14:24	04/20/26 19:38	1
Perfluoropentanoic acid (PFPeA)	0.19	U	0.19	0.096	ug/Kg	✱	04/16/26 14:24	04/20/26 19:38	1
Perfluorohexanoic acid (PFHxA)	0.19	U	0.19	0.096	ug/Kg	✱	04/16/26 14:24	04/20/26 19:38	1
Perfluoroheptanoic acid (PFHpA)	0.19	U	0.19	0.096	ug/Kg	✱	04/16/26 14:24	04/20/26 19:38	1
Perfluorooctanoic acid (PFOA)	0.064	J	0.19	0.057	ug/Kg	✱	04/16/26 14:24	04/20/26 19:38	1
Perfluorononanoic acid (PFNA)	0.14	J	0.19	0.096	ug/Kg	✱	04/16/26 14:24	04/20/26 19:38	1
Perfluorodecanoic acid (PFDA)	0.19	U	0.19	0.057	ug/Kg	✱	04/16/26 14:24	04/20/26 19:38	1
Perfluoroundecanoic acid (PFUnA)	0.56		0.19	0.096	ug/Kg	✱	04/16/26 14:24	04/20/26 19:38	1
Perfluorododecanoic acid (PFDoA)	0.19	U	0.19	0.096	ug/Kg	✱	04/16/26 14:24	04/20/26 19:38	1
Perfluorotridecanoic acid (PFTrDA)	1.94		0.19	0.096	ug/Kg	✱	04/16/26 14:24	04/20/26 19:38	1
Perfluorotetradecanoic acid (PFTeDA)	0.19	U	0.19	0.096	ug/Kg	✱	04/16/26 14:24	04/20/26 19:38	1
Perfluorobutanesulfonic acid (PFBS)	0.19	U	0.19	0.096	ug/Kg	✱	04/16/26 14:24	04/20/26 19:38	1
Perfluoropentanesulfonic acid (PFPeS)	0.19	U	0.19	0.096	ug/Kg	✱	04/16/26 14:24	04/20/26 19:38	1
Perfluorohexanesulfonic acid (PFHxS)	0.19	U	0.19	0.096	ug/Kg	✱	04/16/26 14:24	04/20/26 19:38	1
Perfluoroheptanesulfonic acid (PFHpS)	0.19	U	0.19	0.096	ug/Kg	✱	04/16/26 14:24	04/20/26 19:38	1
Perfluorooctanesulfonic acid (PFOS)	0.19	U	0.19	0.096	ug/Kg	✱	04/16/26 14:24	04/20/26 19:38	1
Perfluorononanesulfonic acid (PFNS)	0.19	U	0.19	0.096	ug/Kg	✱	04/16/26 14:24	04/20/26 19:38	1

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Client Sample Results

Client: Haley & Aldrich Inc
Project/Site: Former Port Mobil

Job ID: 460-348810-1

Client Sample ID: AST04-ISS13_0-6

Lab Sample ID: 460-348810-17

Date Collected: 04/14/26 13:50

Matrix: Solid

Date Received: 04/14/26 16:45

Percent Solids: 86.7

Method: EPA 1633A - Per- and Polyfluoroalkyl Substances by LC/MS/MS, 1633A (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorodecanesulfonic acid (PFDS)	0.19	U	0.19	0.096	ug/Kg	☼	04/16/26 14:24	04/20/26 19:38	1
Perfluorododecanesulfonic acid (PFDoS)	0.19	U	0.19	0.096	ug/Kg	☼	04/16/26 14:24	04/20/26 19:38	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.38	U	0.38	0.19	ug/Kg	☼	04/16/26 14:24	04/20/26 19:38	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.38	U	0.38	0.19	ug/Kg	☼	04/16/26 14:24	04/20/26 19:38	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.38	U	0.38	0.19	ug/Kg	☼	04/16/26 14:24	04/20/26 19:38	1
Perfluorooctanesulfonamide (PFOSA)	0.19	U	0.19	0.096	ug/Kg	☼	04/16/26 14:24	04/20/26 19:38	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.19	U	0.19	0.096	ug/Kg	☼	04/16/26 14:24	04/20/26 19:38	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.19	U	0.19	0.096	ug/Kg	☼	04/16/26 14:24	04/20/26 19:38	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.19	U	0.19	0.096	ug/Kg	☼	04/16/26 14:24	04/20/26 19:38	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.19	U	0.19	0.096	ug/Kg	☼	04/16/26 14:24	04/20/26 19:38	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	0.96	U	0.96	0.48	ug/Kg	☼	04/16/26 14:24	04/20/26 19:38	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	0.96	U	0.96	0.48	ug/Kg	☼	04/16/26 14:24	04/20/26 19:38	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.19	U	0.19	0.096	ug/Kg	☼	04/16/26 14:24	04/20/26 19:38	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.19	U	0.19	0.096	ug/Kg	☼	04/16/26 14:24	04/20/26 19:38	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.19	U	0.19	0.096	ug/Kg	☼	04/16/26 14:24	04/20/26 19:38	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.19	U	0.19	0.096	ug/Kg	☼	04/16/26 14:24	04/20/26 19:38	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.19	U	0.19	0.096	ug/Kg	☼	04/16/26 14:24	04/20/26 19:38	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	0.19	U	0.19	0.096	ug/Kg	☼	04/16/26 14:24	04/20/26 19:38	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.19	U	0.19	0.096	ug/Kg	☼	04/16/26 14:24	04/20/26 19:38	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.19	U	0.19	0.096	ug/Kg	☼	04/16/26 14:24	04/20/26 19:38	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.38	U	0.38	0.19	ug/Kg	☼	04/16/26 14:24	04/20/26 19:38	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	0.96	U	0.96	0.48	ug/Kg	☼	04/16/26 14:24	04/20/26 19:38	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	0.96	U	0.96	0.48	ug/Kg	☼	04/16/26 14:24	04/20/26 19:38	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	113		8 - 130				04/16/26 14:24	04/20/26 19:38	1
13C5 PFPeA	116		35 - 130				04/16/26 14:24	04/20/26 19:38	1
13C5 PFHxA	115		40 - 130				04/16/26 14:24	04/20/26 19:38	1
13C4 PFHpA	117		40 - 130				04/16/26 14:24	04/20/26 19:38	1
13C8 PFOA	95.6		40 - 130				04/16/26 14:24	04/20/26 19:38	1
13C9 PFNA	93.0		40 - 130				04/16/26 14:24	04/20/26 19:38	1
13C6 PFDA	88.9		40 - 130				04/16/26 14:24	04/20/26 19:38	1
13C7 PFUnA	86.0		40 - 130				04/16/26 14:24	04/20/26 19:38	1
13C2 PFTeDA	65.7		20 - 130				04/16/26 14:24	04/20/26 19:38	1

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Client Sample Results

Client: Haley & Aldrich Inc
Project/Site: Former Port Mobil

Job ID: 460-348810-1

Client Sample ID: AST04-ISS13_0-6

Lab Sample ID: 460-348810-17

Date Collected: 04/14/26 13:50

Matrix: Solid

Date Received: 04/14/26 16:45

Percent Solids: 86.7

Method: EPA 1633A - Per- and Polyfluoroalkyl Substances by LC/MS/MS, 1633A (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 PFBS	114		40 - 135	04/16/26 14:24	04/20/26 19:38	1
13C3 PFHxS	102		40 - 130	04/16/26 14:24	04/20/26 19:38	1
13C8 PFOS	84.3		40 - 130	04/16/26 14:24	04/20/26 19:38	1
13C8 FOSA	82.6		40 - 130	04/16/26 14:24	04/20/26 19:38	1
d3-NMeFOSAA	82.5		40 - 135	04/16/26 14:24	04/20/26 19:38	1
d5-NEtFOSAA	88.5		40 - 150	04/16/26 14:24	04/20/26 19:38	1
13C2 4:2 FTS	165		40 - 165	04/16/26 14:24	04/20/26 19:38	1
13C2 6:2 FTS	144		40 - 215	04/16/26 14:24	04/20/26 19:38	1
13C2 8:2 FTS	123		40 - 275	04/16/26 14:24	04/20/26 19:38	1
13C3 HFPO-DA	113		40 - 130	04/16/26 14:24	04/20/26 19:38	1
d7-N-MeFOSE-M	48.9		20 - 130	04/16/26 14:24	04/20/26 19:38	1
d9-N-EtFOSE-M	41.6		15 - 130	04/16/26 14:24	04/20/26 19:38	1
d5-NEtPFOSA	63.2		10 - 130	04/16/26 14:24	04/20/26 19:38	1
d3-NMePFOSA	68.7		10 - 130	04/16/26 14:24	04/20/26 19:38	1
13C2 PFDoA	72.9		40 - 130	04/16/26 14:24	04/20/26 19:38	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	2700		19.2	5.3	mg/Kg	✱	04/16/26 14:02	04/17/26 11:51	1
Antimony	0.83	J	0.96	0.058	mg/Kg	✱	04/16/26 14:02	04/17/26 11:51	1
Arsenic	6.3		0.96	0.099	mg/Kg	✱	04/16/26 14:02	04/17/26 11:51	1
Barium	20.5		1.9	0.14	mg/Kg	✱	04/16/26 14:02	04/17/26 11:51	1
Beryllium	0.27	J	0.38	0.021	mg/Kg	✱	04/16/26 14:02	04/17/26 11:51	1
Cadmium	0.59		0.48	0.11	mg/Kg	✱	04/16/26 14:02	04/17/26 11:51	1
Calcium	1480		96.1	9.4	mg/Kg	✱	04/16/26 14:02	04/17/26 11:51	1
Chromium	10.5		1.9	0.29	mg/Kg	✱	04/16/26 14:02	04/17/26 11:51	1
Cobalt	3.2		0.96	0.14	mg/Kg	✱	04/16/26 14:02	04/17/26 11:51	1
Copper	27.4		1.9	0.35	mg/Kg	✱	04/16/26 14:02	04/17/26 11:51	1
Iron	12400		57.7	7.4	mg/Kg	✱	04/16/26 14:02	04/17/26 11:51	1
Lead	194		0.58	0.19	mg/Kg	✱	04/16/26 14:02	04/17/26 11:51	1
Magnesium	1080		96.1	9.8	mg/Kg	✱	04/16/26 14:02	04/17/26 11:51	1
Manganese	88.7		3.8	0.39	mg/Kg	✱	04/16/26 14:02	04/17/26 11:51	1
Nickel	7.5		1.9	0.17	mg/Kg	✱	04/16/26 14:02	04/17/26 11:51	1
Potassium	436		96.1	6.0	mg/Kg	✱	04/16/26 14:02	04/17/26 11:51	1
Selenium	0.27	J	1.2	0.12	mg/Kg	✱	04/16/26 14:02	04/17/26 11:51	1
Silver	0.11	J	0.38	0.086	mg/Kg	✱	04/16/26 14:02	04/17/26 11:51	1
Sodium	59.2	J	96.1	16.6	mg/Kg	✱	04/16/26 14:02	04/17/26 11:51	1
Thallium	0.38	U	0.38	0.039	mg/Kg	✱	04/16/26 14:02	04/17/26 11:51	1
Vanadium	14.0		1.9	0.20	mg/Kg	✱	04/16/26 14:02	04/17/26 11:51	1
Zinc	110		7.7	1.0	mg/Kg	✱	04/16/26 14:02	04/17/26 11:51	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.018	J	0.019	0.0068	mg/Kg	✱	04/20/26 02:12	04/20/26 12:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	13.3		1.0	1.0	%			04/15/26 19:54	1
Percent Solids (EPA Moisture)	86.7		1.0	1.0	%			04/15/26 19:54	1

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Client Sample Results

Client: Haley & Aldrich Inc
Project/Site: Former Port Mobil

Job ID: 460-348810-1

Client Sample ID: AST04-ISS14_0-7

Lab Sample ID: 460-348810-18

Date Collected: 04/14/26 14:00

Matrix: Solid

Date Received: 04/14/26 16:45

Percent Solids: 92.1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.36	U	0.36	0.0031	mg/Kg	✱	04/15/26 21:44	04/16/26 09:31	1
1,2,4,5-Tetrachlorobenzene	0.36	U	0.36	0.0080	mg/Kg	✱	04/15/26 21:44	04/16/26 09:31	1
1,4-Dioxane	0.036	U	0.036	0.027	mg/Kg	✱	04/15/26 21:44	04/16/26 09:31	1
2,2'-oxybis[1-chloropropane]	0.36	U	0.36	0.016	mg/Kg	✱	04/15/26 21:44	04/16/26 09:31	1
2,3,4,6-Tetrachlorophenol	0.36	U	0.36	0.0068	mg/Kg	✱	04/15/26 21:44	04/16/26 09:31	1
2,4,5-Trichlorophenol	0.36	U	0.36	0.016	mg/Kg	✱	04/15/26 21:44	04/16/26 09:31	1
2,4,6-Trichlorophenol	0.14	U	0.14	0.011	mg/Kg	✱	04/15/26 21:44	04/16/26 09:31	1
2,4-Dichlorophenol	0.14	U	0.14	0.021	mg/Kg	✱	04/15/26 21:44	04/16/26 09:31	1
2,4-Dimethylphenol	0.36	U	0.36	0.019	mg/Kg	✱	04/15/26 21:44	04/16/26 09:31	1
2,4-Dinitrophenol	0.29	U	0.29	0.13	mg/Kg	✱	04/15/26 21:44	04/16/26 09:31	1
2,4-Dinitrotoluene	0.072	U	0.072	0.014	mg/Kg	✱	04/15/26 21:44	04/16/26 09:31	1
2,6-Dinitrotoluene	0.072	U	0.072	0.012	mg/Kg	✱	04/15/26 21:44	04/16/26 09:31	1
2-Chloronaphthalene	0.36	U	0.36	0.0039	mg/Kg	✱	04/15/26 21:44	04/16/26 09:31	1
2-Chlorophenol	0.36	U	0.36	0.0092	mg/Kg	✱	04/15/26 21:44	04/16/26 09:31	1
2-Methylnaphthalene	0.36	U	0.36	0.0052	mg/Kg	✱	04/15/26 21:44	04/16/26 09:31	1
2-Methylphenol	0.22	U	0.22	0.010	mg/Kg	✱	04/15/26 21:44	04/16/26 09:31	1
2-Nitroaniline	0.36	U	0.36	0.021	mg/Kg	✱	04/15/26 21:44	04/16/26 09:31	1
2-Nitrophenol	0.36	U	0.36	0.021	mg/Kg	✱	04/15/26 21:44	04/16/26 09:31	1
3 & 4 Methylphenol	0.22	U	0.22	0.022	mg/Kg	✱	04/15/26 21:44	04/16/26 09:31	1
3,3'-Dichlorobenzidine	0.14	U	0.14	0.015	mg/Kg	✱	04/15/26 21:44	04/16/26 09:31	1
3-Nitroaniline	0.36	U	0.36	0.025	mg/Kg	✱	04/15/26 21:44	04/16/26 09:31	1
4,6-Dinitro-2-methylphenol	0.29	U	0.29	0.024	mg/Kg	✱	04/15/26 21:44	04/16/26 09:31	1
4-Bromophenyl phenyl ether	0.36	U	0.36	0.0066	mg/Kg	✱	04/15/26 21:44	04/16/26 09:31	1
4-Chloro-3-methylphenol	0.36	U	0.36	0.016	mg/Kg	✱	04/15/26 21:44	04/16/26 09:31	1
4-Chloroaniline	0.36	U	0.36	0.017	mg/Kg	✱	04/15/26 21:44	04/16/26 09:31	1
4-Chlorophenyl phenyl ether	0.36	U	0.36	0.0095	mg/Kg	✱	04/15/26 21:44	04/16/26 09:31	1
4-Methylphenol	0.36	U	0.36	0.018	mg/Kg	✱	04/15/26 21:44	04/16/26 09:31	1
4-Nitroaniline	0.36	U	0.36	0.023	mg/Kg	✱	04/15/26 21:44	04/16/26 09:31	1
4-Nitrophenol	0.72	U	0.72	0.046	mg/Kg	✱	04/15/26 21:44	04/16/26 09:31	1
Acenaphthene	0.36	U	0.36	0.0052	mg/Kg	✱	04/15/26 21:44	04/16/26 09:31	1
Acenaphthylene	0.36	U	0.36	0.0044	mg/Kg	✱	04/15/26 21:44	04/16/26 09:31	1
Acetophenone	0.36	U	0.36	0.015	mg/Kg	✱	04/15/26 21:44	04/16/26 09:31	1
Anthracene	0.36	U	0.36	0.0035	mg/Kg	✱	04/15/26 21:44	04/16/26 09:31	1
Atrazine	0.14	U	0.14	0.0094	mg/Kg	✱	04/15/26 21:44	04/16/26 09:31	1
Benzaldehyde	0.36	U	0.36	0.015	mg/Kg	✱	04/15/26 21:44	04/16/26 09:31	1
Benzo[a]anthracene	0.036	U	0.036	0.0033	mg/Kg	✱	04/15/26 21:44	04/16/26 09:31	1
Benzo[a]pyrene	0.036	U	0.036	0.0065	mg/Kg	✱	04/15/26 21:44	04/16/26 09:31	1
Benzo[b]fluoranthene	0.036	U	0.036	0.0053	mg/Kg	✱	04/15/26 21:44	04/16/26 09:31	1
Benzo[g,h,i]perylene	0.36	U	0.36	0.0060	mg/Kg	✱	04/15/26 21:44	04/16/26 09:31	1
Benzo[k]fluoranthene	0.036	U	0.036	0.0054	mg/Kg	✱	04/15/26 21:44	04/16/26 09:31	1
Bis(2-chloroethoxy)methane	0.36	U	0.36	0.016	mg/Kg	✱	04/15/26 21:44	04/16/26 09:31	1
Bis(2-chloroethyl)ether	0.036	U	0.036	0.016	mg/Kg	✱	04/15/26 21:44	04/16/26 09:31	1
Bis(2-ethylhexyl) phthalate	0.36	U	0.36	0.012	mg/Kg	✱	04/15/26 21:44	04/16/26 09:31	1
Butyl benzyl phthalate	0.36	U	0.36	0.012	mg/Kg	✱	04/15/26 21:44	04/16/26 09:31	1
Caprolactam	0.36	U	0.36	0.022	mg/Kg	✱	04/15/26 21:44	04/16/26 09:31	1
Carbazole	0.36	U	0.36	0.0099	mg/Kg	✱	04/15/26 21:44	04/16/26 09:31	1
Chrysene	0.36	U	0.36	0.0039	mg/Kg	✱	04/15/26 21:44	04/16/26 09:31	1
Dibenz(a,h)anthracene	0.036	U	0.036	0.0074	mg/Kg	✱	04/15/26 21:44	04/16/26 09:31	1
Dibenzofuran	0.36	U	0.36	0.0056	mg/Kg	✱	04/15/26 21:44	04/16/26 09:31	1

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Client Sample Results

Client: Haley & Aldrich Inc
Project/Site: Former Port Mobil

Job ID: 460-348810-1

Client Sample ID: AST04-ISS14_0-7

Lab Sample ID: 460-348810-18

Date Collected: 04/14/26 14:00

Matrix: Solid

Date Received: 04/14/26 16:45

Percent Solids: 92.1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diethyl phthalate	0.36	U	0.36	0.0061	mg/Kg	✱	04/15/26 21:44	04/16/26 09:31	1
Dimethyl phthalate	0.36	U	0.36	0.0042	mg/Kg	✱	04/15/26 21:44	04/16/26 09:31	1
Di-n-butyl phthalate	0.36	U	0.36	0.0089	mg/Kg	✱	04/15/26 21:44	04/16/26 09:31	1
Di-n-octyl phthalate	0.36	U	0.36	0.016	mg/Kg	✱	04/15/26 21:44	04/16/26 09:31	1
Fluoranthene	0.36	U	0.36	0.0064	mg/Kg	✱	04/15/26 21:44	04/16/26 09:31	1
Fluorene	0.36	U	0.36	0.0066	mg/Kg	✱	04/15/26 21:44	04/16/26 09:31	1
Hexachlorobenzene	0.036	U	0.036	0.0066	mg/Kg	✱	04/15/26 21:44	04/16/26 09:31	1
Hexachlorobutadiene	0.072	U	0.072	0.0068	mg/Kg	✱	04/15/26 21:44	04/16/26 09:31	1
Hexachlorocyclopentadiene	0.36	U	0.36	0.020	mg/Kg	✱	04/15/26 21:44	04/16/26 09:31	1
Hexachloroethane	0.036	U	0.036	0.0092	mg/Kg	✱	04/15/26 21:44	04/16/26 09:31	1
Indeno[1,2,3-cd]pyrene	0.036	U	0.036	0.024	mg/Kg	✱	04/15/26 21:44	04/16/26 09:31	1
Isophorone	0.14	U	0.14	0.0083	mg/Kg	✱	04/15/26 21:44	04/16/26 09:31	1
Naphthalene	0.36	U	0.36	0.0029	mg/Kg	✱	04/15/26 21:44	04/16/26 09:31	1
Nitrobenzene	0.036	U	0.036	0.016	mg/Kg	✱	04/15/26 21:44	04/16/26 09:31	1
N-Nitrosodi-n-propylamine	0.036	U	0.036	0.017	mg/Kg	✱	04/15/26 21:44	04/16/26 09:31	1
N-Nitrosodiphenylamine	0.36	U	0.36	0.0063	mg/Kg	✱	04/15/26 21:44	04/16/26 09:31	1
Pentachlorophenol	0.29	U	0.29	0.024	mg/Kg	✱	04/15/26 21:44	04/16/26 09:31	1
Phenanthrene	0.027	J	0.36	0.0061	mg/Kg	✱	04/15/26 21:44	04/16/26 09:31	1
Phenol	0.22	U	0.22	0.020	mg/Kg	✱	04/15/26 21:44	04/16/26 09:31	1
Pyrene	0.36	U	0.36	0.0058	mg/Kg	✱	04/15/26 21:44	04/16/26 09:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	54		18 - 137	04/15/26 21:44	04/16/26 09:31	1
2-Fluorobiphenyl	50		33 - 117	04/15/26 21:44	04/16/26 09:31	1
2-Fluorophenol (Surr)	50		24 - 120	04/15/26 21:44	04/16/26 09:31	1
Nitrobenzene-d5 (Surr)	51		27 - 120	04/15/26 21:44	04/16/26 09:31	1
Phenol-d5 (Surr)	49		28 - 118	04/15/26 21:44	04/16/26 09:31	1
Terphenyl-d14 (Surr)	59		33 - 124	04/15/26 21:44	04/16/26 09:31	1

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0022	U	0.0022	0.00088	mg/Kg	✱	04/16/26 10:13	04/17/26 13:42	1
4,4'-DDE	0.0022	U	0.0022	0.00056	mg/Kg	✱	04/16/26 10:13	04/17/26 13:42	1
4,4'-DDT	0.0022	U	0.0022	0.00073	mg/Kg	✱	04/16/26 10:13	04/17/26 13:42	1
Aldrin	0.0022	U	0.0022	0.00033	mg/Kg	✱	04/16/26 10:13	04/17/26 13:42	1
alpha-BHC	0.0022	U	0.0022	0.00036	mg/Kg	✱	04/16/26 10:13	04/17/26 13:42	1
beta-BHC	0.0022	U	0.0022	0.00043	mg/Kg	✱	04/16/26 10:13	04/17/26 13:42	1
Chlordane (technical)	0.072	U	0.072	0.018	mg/Kg	✱	04/16/26 10:13	04/17/26 13:42	1
cis-Chlordane	0.0022	U	0.0022	0.00022	mg/Kg	✱	04/16/26 10:13	04/17/26 13:42	1
delta-BHC	0.0022	U	0.0022	0.00031	mg/Kg	✱	04/16/26 10:13	04/17/26 13:42	1
Dieldrin	0.0022	U	0.0022	0.00062	mg/Kg	✱	04/16/26 10:13	04/17/26 13:42	1
Endosulfan I	0.0022	U	0.0022	0.00027	mg/Kg	✱	04/16/26 10:13	04/17/26 13:42	1
Endosulfan II	0.0022	U	0.0022	0.00037	mg/Kg	✱	04/16/26 10:13	04/17/26 13:42	1
Endosulfan sulfate	0.0022	U	0.0022	0.00047	mg/Kg	✱	04/16/26 10:13	04/17/26 13:42	1
Endrin	0.0022	U	0.0022	0.00021	mg/Kg	✱	04/16/26 10:13	04/17/26 13:42	1
Endrin aldehyde	0.0022	U	0.0022	0.00043	mg/Kg	✱	04/16/26 10:13	04/17/26 13:42	1
Endrin ketone	0.0022	U	0.0022	0.00033	mg/Kg	✱	04/16/26 10:13	04/17/26 13:42	1
gamma-BHC (Lindane)	0.0022	U	0.0022	0.00021	mg/Kg	✱	04/16/26 10:13	04/17/26 13:42	1
Heptachlor	0.0022	U	0.0022	0.00027	mg/Kg	✱	04/16/26 10:13	04/17/26 13:42	1
Heptachlor epoxide	0.0022	U	0.0022	0.00041	mg/Kg	✱	04/16/26 10:13	04/17/26 13:42	1

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Client Sample Results

Client: Haley & Aldrich Inc
Project/Site: Former Port Mobil

Job ID: 460-348810-1

Client Sample ID: AST04-ISS14_0-7

Lab Sample ID: 460-348810-18

Date Collected: 04/14/26 14:00

Matrix: Solid

Date Received: 04/14/26 16:45

Percent Solids: 92.1

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methoxychlor	0.0022	U	0.0022	0.00082	mg/Kg	✱	04/16/26 10:13	04/17/26 13:42	1
Toxaphene	0.072	U	0.072	0.026	mg/Kg	✱	04/16/26 10:13	04/17/26 13:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	86		10 - 150				04/16/26 10:13	04/17/26 13:42	1
DCB Decachlorobiphenyl	93		10 - 150				04/16/26 10:13	04/17/26 13:42	1
Tetrachloro-m-xylene	72		14 - 150				04/16/26 10:13	04/17/26 13:42	1
Tetrachloro-m-xylene	74		14 - 150				04/16/26 10:13	04/17/26 13:42	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.072	U	0.072	0.019	mg/Kg	✱	04/16/26 10:09	04/18/26 22:53	1
Aroclor 1221	0.072	U	0.072	0.019	mg/Kg	✱	04/16/26 10:09	04/18/26 22:53	1
Aroclor 1232	0.072	U	0.072	0.019	mg/Kg	✱	04/16/26 10:09	04/18/26 22:53	1
Aroclor 1242	0.072	U	0.072	0.019	mg/Kg	✱	04/16/26 10:09	04/18/26 22:53	1
Aroclor 1248	0.072	U	0.072	0.019	mg/Kg	✱	04/16/26 10:09	04/18/26 22:53	1
Aroclor 1254	0.072	U	0.072	0.019	mg/Kg	✱	04/16/26 10:09	04/18/26 22:53	1
Aroclor 1260	0.072	U	0.072	0.019	mg/Kg	✱	04/16/26 10:09	04/18/26 22:53	1
Aroclor-1262	0.072	U	0.072	0.019	mg/Kg	✱	04/16/26 10:09	04/18/26 22:53	1
Aroclor 1268	0.072	U	0.072	0.019	mg/Kg	✱	04/16/26 10:09	04/18/26 22:53	1
Polychlorinated biphenyls, Total	0.072	U	0.072	0.019	mg/Kg	✱	04/16/26 10:09	04/18/26 22:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	118		10 - 150				04/16/26 10:09	04/18/26 22:53	1
DCB Decachlorobiphenyl	114		10 - 150				04/16/26 10:09	04/18/26 22:53	1
Tetrachloro-m-xylene	92		10 - 150				04/16/26 10:09	04/18/26 22:53	1
Tetrachloro-m-xylene	102		10 - 150				04/16/26 10:09	04/18/26 22:53	1

Method: EPA 1633A - Per- and Polyfluoroalkyl Substances by LC/MS/MS, 1633A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.38	U	0.38	0.096	ug/Kg	✱	04/16/26 14:24	04/20/26 19:51	1
Perfluoropentanoic acid (PFPeA)	0.19	U	0.19	0.096	ug/Kg	✱	04/16/26 14:24	04/20/26 19:51	1
Perfluorohexanoic acid (PFHxA)	0.19	U	0.19	0.096	ug/Kg	✱	04/16/26 14:24	04/20/26 19:51	1
Perfluoroheptanoic acid (PFHpA)	0.19	U	0.19	0.096	ug/Kg	✱	04/16/26 14:24	04/20/26 19:51	1
Perfluorooctanoic acid (PFOA)	0.19	U	0.19	0.057	ug/Kg	✱	04/16/26 14:24	04/20/26 19:51	1
Perfluorononanoic acid (PFNA)	10.2		0.19	0.096	ug/Kg	✱	04/16/26 14:24	04/20/26 19:51	1
Perfluorodecanoic acid (PFDA)	0.10	J	0.19	0.057	ug/Kg	✱	04/16/26 14:24	04/20/26 19:51	1
Perfluoroundecanoic acid (PFUnA)	1.51		0.19	0.096	ug/Kg	✱	04/16/26 14:24	04/20/26 19:51	1
Perfluorododecanoic acid (PFDoA)	0.19	U	0.19	0.096	ug/Kg	✱	04/16/26 14:24	04/20/26 19:51	1
Perfluorotridecanoic acid (PFTriDA)	0.19	U	0.19	0.096	ug/Kg	✱	04/16/26 14:24	04/20/26 19:51	1
Perfluorotetradecanoic acid (PFTeDA)	0.19	U	0.19	0.096	ug/Kg	✱	04/16/26 14:24	04/20/26 19:51	1
Perfluorobutanesulfonic acid (PFBS)	0.19	U	0.19	0.096	ug/Kg	✱	04/16/26 14:24	04/20/26 19:51	1
Perfluoropentanesulfonic acid (PFPeS)	0.19	U	0.19	0.096	ug/Kg	✱	04/16/26 14:24	04/20/26 19:51	1
Perfluorohexanesulfonic acid (PFHxS)	0.19	U	0.19	0.096	ug/Kg	✱	04/16/26 14:24	04/20/26 19:51	1
Perfluoroheptanesulfonic acid (PFHpS)	0.19	U	0.19	0.096	ug/Kg	✱	04/16/26 14:24	04/20/26 19:51	1
Perfluorooctanesulfonic acid (PFOS)	0.19	U	0.19	0.096	ug/Kg	✱	04/16/26 14:24	04/20/26 19:51	1
Perfluorononanesulfonic acid (PFNS)	0.19	U	0.19	0.096	ug/Kg	✱	04/16/26 14:24	04/20/26 19:51	1
Perfluorodecanesulfonic acid (PFDS)	0.19	U	0.19	0.096	ug/Kg	✱	04/16/26 14:24	04/20/26 19:51	1

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Client Sample Results

Client: Haley & Aldrich Inc
Project/Site: Former Port Mobil

Job ID: 460-348810-1

Client Sample ID: AST04-ISS14_0-7

Lab Sample ID: 460-348810-18

Date Collected: 04/14/26 14:00

Matrix: Solid

Date Received: 04/14/26 16:45

Percent Solids: 92.1

Method: EPA 1633A - Per- and Polyfluoroalkyl Substances by LC/MS/MS, 1633A (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorododecanesulfonic acid (PFDoS)	0.19	U	0.19	0.096	ug/Kg	☼	04/16/26 14:24	04/20/26 19:51	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.38	U	0.38	0.19	ug/Kg	☼	04/16/26 14:24	04/20/26 19:51	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.38	U	0.38	0.19	ug/Kg	☼	04/16/26 14:24	04/20/26 19:51	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.38	U	0.38	0.19	ug/Kg	☼	04/16/26 14:24	04/20/26 19:51	1
Perfluorooctanesulfonamide (PFOSA)	0.19	U	0.19	0.096	ug/Kg	☼	04/16/26 14:24	04/20/26 19:51	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.19	U	0.19	0.096	ug/Kg	☼	04/16/26 14:24	04/20/26 19:51	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.19	U	0.19	0.096	ug/Kg	☼	04/16/26 14:24	04/20/26 19:51	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.19	U	0.19	0.096	ug/Kg	☼	04/16/26 14:24	04/20/26 19:51	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.19	U	0.19	0.096	ug/Kg	☼	04/16/26 14:24	04/20/26 19:51	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	0.96	U	0.96	0.48	ug/Kg	☼	04/16/26 14:24	04/20/26 19:51	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	0.96	U	0.96	0.48	ug/Kg	☼	04/16/26 14:24	04/20/26 19:51	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.19	U	0.19	0.096	ug/Kg	☼	04/16/26 14:24	04/20/26 19:51	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.19	U	0.19	0.096	ug/Kg	☼	04/16/26 14:24	04/20/26 19:51	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.19	U	0.19	0.096	ug/Kg	☼	04/16/26 14:24	04/20/26 19:51	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.19	U	0.19	0.096	ug/Kg	☼	04/16/26 14:24	04/20/26 19:51	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.19	U	0.19	0.096	ug/Kg	☼	04/16/26 14:24	04/20/26 19:51	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	0.19	U	0.19	0.096	ug/Kg	☼	04/16/26 14:24	04/20/26 19:51	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.19	U	0.19	0.096	ug/Kg	☼	04/16/26 14:24	04/20/26 19:51	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.19	U	0.19	0.096	ug/Kg	☼	04/16/26 14:24	04/20/26 19:51	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.38	U	0.38	0.19	ug/Kg	☼	04/16/26 14:24	04/20/26 19:51	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	0.96	U	0.96	0.48	ug/Kg	☼	04/16/26 14:24	04/20/26 19:51	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	0.96	U	0.96	0.48	ug/Kg	☼	04/16/26 14:24	04/20/26 19:51	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	114		8 - 130				04/16/26 14:24	04/20/26 19:51	1
13C5 PFPeA	115		35 - 130				04/16/26 14:24	04/20/26 19:51	1
13C5 PFHxA	115		40 - 130				04/16/26 14:24	04/20/26 19:51	1
13C4 PFHpA	114		40 - 130				04/16/26 14:24	04/20/26 19:51	1
13C8 PFOA	106		40 - 130				04/16/26 14:24	04/20/26 19:51	1
13C9 PFNA	108		40 - 130				04/16/26 14:24	04/20/26 19:51	1
13C6 PFDA	101		40 - 130				04/16/26 14:24	04/20/26 19:51	1
13C7 PFUnA	95.6		40 - 130				04/16/26 14:24	04/20/26 19:51	1
13C2 PFTeDA	79.3		20 - 130				04/16/26 14:24	04/20/26 19:51	1
13C3 PFBS	117		40 - 135				04/16/26 14:24	04/20/26 19:51	1

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Client Sample Results

Client: Haley & Aldrich Inc
Project/Site: Former Port Mobil

Job ID: 460-348810-1

Client Sample ID: AST04-ISS14_0-7

Lab Sample ID: 460-348810-18

Date Collected: 04/14/26 14:00

Matrix: Solid

Date Received: 04/14/26 16:45

Percent Solids: 92.1

Method: EPA 1633A - Per- and Polyfluoroalkyl Substances by LC/MS/MS, 1633A (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 PFHxS	107		40 - 130	04/16/26 14:24	04/20/26 19:51	1
13C8 PFOS	92.5		40 - 130	04/16/26 14:24	04/20/26 19:51	1
13C8 FOSA	94.2		40 - 130	04/16/26 14:24	04/20/26 19:51	1
d3-NMeFOSAA	84.1		40 - 135	04/16/26 14:24	04/20/26 19:51	1
d5-NEtFOSAA	87.8		40 - 150	04/16/26 14:24	04/20/26 19:51	1
13C2 4:2 FTS	130		40 - 165	04/16/26 14:24	04/20/26 19:51	1
13C2 6:2 FTS	130		40 - 215	04/16/26 14:24	04/20/26 19:51	1
13C2 8:2 FTS	112		40 - 275	04/16/26 14:24	04/20/26 19:51	1
13C3 HFPO-DA	116		40 - 130	04/16/26 14:24	04/20/26 19:51	1
d7-N-MeFOSE-M	76.8		20 - 130	04/16/26 14:24	04/20/26 19:51	1
d9-N-EtFOSE-M	69.7		15 - 130	04/16/26 14:24	04/20/26 19:51	1
d5-NEtPFOSA	71.7		10 - 130	04/16/26 14:24	04/20/26 19:51	1
d3-NMePFOSA	78.8		10 - 130	04/16/26 14:24	04/20/26 19:51	1
13C2 PFDoA	84.8		40 - 130	04/16/26 14:24	04/20/26 19:51	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	7080		17.8	4.9	mg/Kg	✱	04/16/26 14:02	04/17/26 11:54	1
Antimony	0.13	J	0.89	0.053	mg/Kg	✱	04/16/26 14:02	04/17/26 11:54	1
Arsenic	2.5		0.89	0.092	mg/Kg	✱	04/16/26 14:02	04/17/26 11:54	1
Barium	59.8		1.8	0.13	mg/Kg	✱	04/16/26 14:02	04/17/26 11:54	1
Beryllium	0.48		0.36	0.020	mg/Kg	✱	04/16/26 14:02	04/17/26 11:54	1
Cadmium	0.44	U	0.44	0.10	mg/Kg	✱	04/16/26 14:02	04/17/26 11:54	1
Calcium	1230		89.0	8.7	mg/Kg	✱	04/16/26 14:02	04/17/26 11:54	1
Chromium	13.8		1.8	0.26	mg/Kg	✱	04/16/26 14:02	04/17/26 11:54	1
Cobalt	7.5		0.89	0.13	mg/Kg	✱	04/16/26 14:02	04/17/26 11:54	1
Copper	18.4		1.8	0.33	mg/Kg	✱	04/16/26 14:02	04/17/26 11:54	1
Iron	16800		53.4	6.8	mg/Kg	✱	04/16/26 14:02	04/17/26 11:54	1
Lead	9.7		0.53	0.18	mg/Kg	✱	04/16/26 14:02	04/17/26 11:54	1
Magnesium	3920		89.0	9.1	mg/Kg	✱	04/16/26 14:02	04/17/26 11:54	1
Manganese	396		3.6	0.36	mg/Kg	✱	04/16/26 14:02	04/17/26 11:54	1
Nickel	17.2		1.8	0.16	mg/Kg	✱	04/16/26 14:02	04/17/26 11:54	1
Potassium	1300		89.0	5.5	mg/Kg	✱	04/16/26 14:02	04/17/26 11:54	1
Selenium	1.1	U	1.1	0.11	mg/Kg	✱	04/16/26 14:02	04/17/26 11:54	1
Silver	0.36	U	0.36	0.079	mg/Kg	✱	04/16/26 14:02	04/17/26 11:54	1
Sodium	122		89.0	15.4	mg/Kg	✱	04/16/26 14:02	04/17/26 11:54	1
Thallium	0.094	J	0.36	0.036	mg/Kg	✱	04/16/26 14:02	04/17/26 11:54	1
Vanadium	18.2		1.8	0.18	mg/Kg	✱	04/16/26 14:02	04/17/26 11:54	1
Zinc	40.2		7.1	0.97	mg/Kg	✱	04/16/26 14:02	04/17/26 11:54	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.018	U	0.018	0.0065	mg/Kg	✱	04/20/26 02:12	04/20/26 12:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	7.9		1.0	1.0	%			04/15/26 19:54	1
Percent Solids (EPA Moisture)	92.1		1.0	1.0	%			04/15/26 19:54	1

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Surrogate Summary

Client: Haley & Aldrich Inc
Project/Site: Former Port Mobil

Job ID: 460-348810-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (60-150)	BFB (70-150)	DBFM (68-150)	TOL (64-157)
460-348810-1	AST04-ISS11_A	98	98	98	95
460-348810-2	AST04-ISS11_B	114	119	110	112
LCS 460-1102402/3	Lab Control Sample	108	106	109	108
LCSD 460-1102402/4	Lab Control Sample Dup	91	91	92	90
MB 460-1102402/9	Method Blank	86	91	96	86
Surrogate Legend					
DCA = 1,2-Dichloroethane-d4 (Surr)					
BFB = 4-Bromofluorobenzene					
DBFM = Dibromofluoromethane (Surr)					
TOL = Toluene-d8 (Surr)					

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (65-138)	BFB (71-128)	DBFM (50-150)	TOL (71-126)
460-348810-3	AST04-ISS11_C	111	110	99	103
460-348810-4	AST04-ISS12_A	106	105	98	103
460-348810-5	AST04-ISS12_B	111	109	100	104
460-348810-6	AST04-ISS12_C	106	107	98	104
460-348810-7	AST04-ISS12_D	111	102	99	102
460-348810-8	AST04-ISS13_A	113	103	100	103
460-348810-9	AST04-ISS13_B	105	106	93	105
460-348810-10	AST04-ISS13_C	104	108	88	101
460-348810-11	AST04-ISS14_A	106	106	96	101
460-348810-12	AST04-ISS14_B	101	107	89	106
460-348810-13	AST04-ISS14_C	101	105	92	103
460-348810-14	AST04-ISS14_D	104	104	98	104
LCS 460-1101958/3	Lab Control Sample	99	103	91	101
LCS 460-1102111/2	Lab Control Sample	101	105	95	101
LCSD 460-1101958/4	Lab Control Sample Dup	99	104	92	102
LCSD 460-1102111/3	Lab Control Sample Dup	98	105	92	102
MB 460-1101958/7	Method Blank	106	104	97	104
MB 460-1102111/7	Method Blank	103	104	98	102
Surrogate Legend					
DCA = 1,2-Dichloroethane-d4 (Surr)					
BFB = 4-Bromofluorobenzene					
DBFM = Dibromofluoromethane (Surr)					
TOL = Toluene-d8 (Surr)					

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (18-137)	FBP (33-117)	2FP (24-120)	NBZ (27-120)	PHL (28-118)	TPHL (33-124)
460-348803-E-6-A MS	Matrix Spike	63	62	65	64	65	61
460-348803-E-6-B MSD	Matrix Spike Duplicate	64	61	56	59	59	60

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Surrogate Summary

Client: Haley & Aldrich Inc
Project/Site: Former Port Mobil

Job ID: 460-348810-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (18-137)	FBP (33-117)	2FP (24-120)	NBZ (27-120)	PHL (28-118)	TPHL (33-124)
460-348810-15	AST04-ISS11_0-5	56	53	56	55	53	58
460-348810-16	AST04-ISS12_0-6	54	55	57	58	56	59
460-348810-17	AST04-ISS13_0-6	56	52	50	51	49	58
460-348810-18	AST04-ISS14_0-7	54	50	50	51	49	59
LCS 460-1101641/2-A	Lab Control Sample	69	67	70	69	70	64
LCSD 460-1101641/3-A	Lab Control Sample Dup	69	68	70	69	69	64
MB 460-1101641/1-A	Method Blank	65	67	70	69	69	65

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHL = Terphenyl-d14 (Surr)

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCBP1 (10-150)	DCBP2 (10-150)	TCX1 (14-150)	TCX2 (14-150)
460-348801-B-1-F MS	Matrix Spike	72	71	57	55
460-348801-B-1-G MSD	Matrix Spike Duplicate	89	86	71	68
460-348810-15	AST04-ISS11_0-5	98	83	67	60
460-348810-16	AST04-ISS12_0-6	72	65	61	57
460-348810-17	AST04-ISS13_0-6	65	64	60	60
460-348810-18	AST04-ISS14_0-7	93	86	74	72
LCS 460-1101787/2-A	Lab Control Sample	110	95	82	80
LCSD 460-1101787/3-A	Lab Control Sample Dup	106	97	84	80
MB 460-1101787/1-A	Method Blank	110	99	84	82

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCBP1 (10-150)	DCBP2 (10-150)	TCX1 (10-150)	TCX2 (10-150)
460-348801-B-1-C MS	Matrix Spike	104	106	89	85
460-348801-B-1-D MSD	Matrix Spike Duplicate	115	117	101	98
460-348810-15	AST04-ISS11_0-5	114	119	94	82
460-348810-16	AST04-ISS12_0-6	80	80	82	78
460-348810-17	AST04-ISS13_0-6	88	84	85	77
460-348810-18	AST04-ISS14_0-7	114	118	102	92
LCS 460-1101784/2-A	Lab Control Sample	103	112	92	88
LCSD 460-1101784/3-A	Lab Control Sample Dup	119	129	107	100
MB 460-1101784/1-A	Method Blank	107	120	97	94

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Surrogate Summary

Client: Haley & Aldrich Inc
Project/Site: Former Port Mobil

Job ID: 460-348810-1

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

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Isotope Dilution Summary

Client: Haley & Aldrich Inc
Project/Site: Former Port Mobil

Job ID: 460-348810-1

Method: 1633A - Per- and Polyfluoroalkyl Substances by LC/MS/MS, 1633A

Matrix: Solid

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFBA (8-130)	PFPeA (35-130)	13C5PHA (40-130)	C4PFHA (40-130)	C8PFOA (40-130)	C9PFNA (40-130)	C6PFDA (40-130)	13C7PUA (40-130)
460-348810-15	AST04-ISS11_0-5	93.9	88.0	94.6	88.5	88.8	92.0	89.9	93.0
460-348810-16	AST04-ISS12_0-6	104	95.3	98.6	95.6	94.1	89.0	88.5	85.2
460-348810-17	AST04-ISS13_0-6	113	116	115	117	95.6	93.0	88.9	86.0
460-348810-18	AST04-ISS14_0-7	114	115	115	114	106	108	101	95.6
LCS 410-801581/2-A	Lab Control Sample	107	99.1	103	105	98.9	93.4	90.4	81.9
LLCS 410-801581/3-A	Lab Control Sample	107	102	102	99.5	97.2	93.0	92.6	90.9
MB 410-801581/1-A	Method Blank	122	115	116	113	107	105	108	98.6

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFTDA (20-130)	C3PFBS (40-135)	C3PFHS (40-130)	C8PFOS (40-130)	PFOSA (40-130)	d3NMFOS (40-135)	d5NEFOS (40-150)	M242FTS (40-165)
460-348810-15	AST04-ISS11_0-5	91.7	91.1	89.5	82.2	85.3	87.1	82.2	111
460-348810-16	AST04-ISS12_0-6	61.1	98.2	94.3	78.4	78.8	77.3	73.5	169 *
460-348810-17	AST04-ISS13_0-6	65.7	114	102	84.3	82.6	82.5	88.5	165
460-348810-18	AST04-ISS14_0-7	79.3	117	107	92.5	94.2	84.1	87.8	130
LCS 410-801581/2-A	Lab Control Sample	71.3	98.8	96.2	78.2	73.2	77.0	69.9	101
LLCS 410-801581/3-A	Lab Control Sample	85.8	97.7	99.2	93.7	82.1	87.6	77.6	103
MB 410-801581/1-A	Method Blank	93.8	112	111	101	92.0	98.2	90.1	120

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	M262FTS (40-215)	M282FTS (40-275)	HFPODA (40-130)	NMFM (20-130)	NEFM (15-130)	d5NPFSA (10-130)	d3NMFSA (10-130)	PFDaA (40-130)
460-348810-15	AST04-ISS11_0-5	112	253	83.8	69.6	61.6	75.9	79.4	86.0
460-348810-16	AST04-ISS12_0-6	137	213	90.3	48.8	43.6	63.1	67.2	80.5
460-348810-17	AST04-ISS13_0-6	144	123	113	48.9	41.6	63.2	68.7	72.9
460-348810-18	AST04-ISS14_0-7	130	112	116	76.8	69.7	71.7	78.8	84.8
LCS 410-801581/2-A	Lab Control Sample	106	212	97.5	46.7	42.1	55.4	59.8	71.0
LLCS 410-801581/3-A	Lab Control Sample	113	181	95.2	45.2	42.9	61.8	66.9	80.1
MB 410-801581/1-A	Method Blank	122	237	110	52.5	48.3	72.2	78.6	90.2

Surrogate Legend

PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA
13C5PHA = 13C5 PFHxA
C4PFHA = 13C4 PFHpA
C8PFOA = 13C8 PFOA
C9PFNA = 13C9 PFNA
C6PFDA = 13C6 PFDA
13C7PUA = 13C7 PFUnA
PFTDA = 13C2 PFTeDA
C3PFBS = 13C3 PFBS
C3PFHS = 13C3 PFHxS
C8PFOS = 13C8 PFOS
PFOSA = 13C8 FOSA
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
M242FTS = 13C2 4:2 FTS
M262FTS = 13C2 6:2 FTS
M282FTS = 13C2 8:2 FTS
HFPODA = 13C3 HFPO-DA
NMFM = d7-N-MeFOSE-M

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Isotope Dilution Summary

Client: Haley & Aldrich Inc
Project/Site: Former Port Mobil
NEFM = d9-N-EtFOSE-M
d5NPFSA = d5-NEtPFOSA
d3NMFSA = d3-NMePFOSA
PFDoA = 13C2 PFDoA

Job ID: 460-348810-1

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QC Sample Results

Client: Haley & Aldrich Inc
Project/Site: Former Port Mobil

Job ID: 460-348810-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 460-1101958/7

Matrix: Solid

Analysis Batch: 1101958

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1-Trichloroethane	0.0010	U	0.0010	0.00023	mg/Kg			04/17/26 07:16	1
1,1,2,2-Tetrachloroethane	0.0010	U	0.0010	0.00052	mg/Kg			04/17/26 07:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0010	U	0.0010	0.00030	mg/Kg			04/17/26 07:16	1
1,1,2-Trichloroethane	0.0010	U	0.0010	0.00060	mg/Kg			04/17/26 07:16	1
1,1-Dichloroethane	0.0010	U	0.0010	0.00060	mg/Kg			04/17/26 07:16	1
1,1-Dichloroethene	0.0010	U	0.0010	0.00023	mg/Kg			04/17/26 07:16	1
1,2,3-Trichlorobenzene	0.0010	U	0.0010	0.00074	mg/Kg			04/17/26 07:16	1
1,2,4-Trichlorobenzene	0.0010	U	0.0010	0.00036	mg/Kg			04/17/26 07:16	1
1,2,4-Trimethylbenzene	0.0010	U	0.0010	0.00025	mg/Kg			04/17/26 07:16	1
1,2-Dibromo-3-Chloropropane	0.0010	U	0.0010	0.00046	mg/Kg			04/17/26 07:16	1
1,2-Dichlorobenzene	0.0010	U	0.0010	0.00036	mg/Kg			04/17/26 07:16	1
1,2-Dichloroethane	0.0010	U	0.0010	0.00030	mg/Kg			04/17/26 07:16	1
1,2-Dichloropropane	0.0010	U	0.0010	0.00042	mg/Kg			04/17/26 07:16	1
1,3,5-Trimethylbenzene	0.0010	U	0.0010	0.00031	mg/Kg			04/17/26 07:16	1
1,3-Dichlorobenzene	0.0010	U	0.0010	0.00037	mg/Kg			04/17/26 07:16	1
1,4-Dichlorobenzene	0.0010	U	0.0010	0.00052	mg/Kg			04/17/26 07:16	1
2-Butanone (MEK)	0.0050	U	0.0050	0.00037	mg/Kg			04/17/26 07:16	1
2-Hexanone	0.0050	U	0.0050	0.0017	mg/Kg			04/17/26 07:16	1
4-Methyl-2-pentanone (MIBK)	0.0050	U	0.0050	0.0016	mg/Kg			04/17/26 07:16	1
Acetone	0.0060	U	0.0060	0.0057	mg/Kg			04/17/26 07:16	1
Benzene	0.0010	U	0.0010	0.00057	mg/Kg			04/17/26 07:16	1
Bromoform	0.0010	U	0.0010	0.00043	mg/Kg			04/17/26 07:16	1
Bromomethane	0.0020	U	0.0020	0.0010	mg/Kg			04/17/26 07:16	1
Carbon disulfide	0.0010	U	0.0010	0.00027	mg/Kg			04/17/26 07:16	1
Carbon tetrachloride	0.0010	U	0.0010	0.00039	mg/Kg			04/17/26 07:16	1
Chlorobenzene	0.0010	U	0.0010	0.00051	mg/Kg			04/17/26 07:16	1
Chlorobromomethane	0.0010	U	0.0010	0.00060	mg/Kg			04/17/26 07:16	1
Chlorodibromomethane	0.0010	U	0.0010	0.00054	mg/Kg			04/17/26 07:16	1
Chloroethane	0.0010	U	0.0010	0.00052	mg/Kg			04/17/26 07:16	1
Chloroform	0.0010	U	0.0010	0.00097	mg/Kg			04/17/26 07:16	1
Chloromethane	0.0010	U	0.0010	0.00044	mg/Kg			04/17/26 07:16	1
cis-1,2-Dichloroethene	0.0010	U	0.0010	0.00036	mg/Kg			04/17/26 07:16	1
cis-1,3-Dichloropropene	0.0010	U	0.0010	0.00027	mg/Kg			04/17/26 07:16	1
Cyclohexane	0.0010	U	0.0010	0.00022	mg/Kg			04/17/26 07:16	1
Dichlorobromomethane	0.0010	U	0.0010	0.00026	mg/Kg			04/17/26 07:16	1
Dichlorodifluoromethane	0.0010	U	0.0010	0.00034	mg/Kg			04/17/26 07:16	1
Ethylbenzene	0.0010	U	0.0010	0.00047	mg/Kg			04/17/26 07:16	1
Ethylene Dibromide	0.0010	U	0.0010	0.00050	mg/Kg			04/17/26 07:16	1
Isopropylbenzene	0.0010	U	0.0010	0.00029	mg/Kg			04/17/26 07:16	1
Methyl acetate	0.0050	U	0.0050	0.0043	mg/Kg			04/17/26 07:16	1
Methyl tert-butyl ether	0.0010	U	0.0010	0.00051	mg/Kg			04/17/26 07:16	1
Methylcyclohexane	0.0010	U	0.0010	0.00050	mg/Kg			04/17/26 07:16	1
Methylene Chloride	0.0020	U	0.0020	0.0011	mg/Kg			04/17/26 07:16	1
m-Xylene & p-Xylene	0.0010	U	0.0010	0.00042	mg/Kg			04/17/26 07:16	1
n-Butylbenzene	0.0010	U	0.0010	0.00029	mg/Kg			04/17/26 07:16	1
N-Propylbenzene	0.0010	U	0.0010	0.00045	mg/Kg			04/17/26 07:16	1
o-Xylene	0.0010	U	0.0010	0.00046	mg/Kg			04/17/26 07:16	1
sec-Butylbenzene	0.0010	U	0.0010	0.00029	mg/Kg			04/17/26 07:16	1

Eurofins Edison

QC Sample Results

Client: Haley & Aldrich Inc
Project/Site: Former Port Mobil

Job ID: 460-348810-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 460-1101958/7

Matrix: Solid

Analysis Batch: 1101958

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	0.0010	U	0.0010	0.00028	mg/Kg			04/17/26 07:16	1
tert-Butylbenzene	0.0010	U	0.0010	0.00028	mg/Kg			04/17/26 07:16	1
Tetrachloroethene	0.0010	U	0.0010	0.00031	mg/Kg			04/17/26 07:16	1
Toluene	0.0010	U	0.0010	0.00023	mg/Kg			04/17/26 07:16	1
trans-1,2-Dichloroethene	0.0010	U	0.0010	0.00025	mg/Kg			04/17/26 07:16	1
trans-1,3-Dichloropropene	0.0010	U	0.0010	0.00027	mg/Kg			04/17/26 07:16	1
Trichloroethene	0.0010	U	0.0010	0.00032	mg/Kg			04/17/26 07:16	1
Trichlorofluoromethane	0.0010	U	0.0010	0.00041	mg/Kg			04/17/26 07:16	1
Vinyl chloride	0.0010	U	0.0010	0.00055	mg/Kg			04/17/26 07:16	1
Xylenes, Total	0.0020	U	0.0020	0.00017	mg/Kg			04/17/26 07:16	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		65 - 138		04/17/26 07:16	1
4-Bromofluorobenzene	104		71 - 128		04/17/26 07:16	1
Dibromofluoromethane (Surr)	97		50 - 150		04/17/26 07:16	1
Toluene-d8 (Surr)	104		71 - 126		04/17/26 07:16	1

Lab Sample ID: LCS 460-1101958/3

Matrix: Solid

Analysis Batch: 1101958

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	0.0200	0.0191		mg/Kg		96	78 - 120
1,1,2,2-Tetrachloroethane	0.0200	0.0181		mg/Kg		91	70 - 133
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0200	0.0183		mg/Kg		92	75 - 121
1,1,2-Trichloroethane	0.0200	0.0193		mg/Kg		96	80 - 120
1,1-Dichloroethane	0.0200	0.0225		mg/Kg		113	72 - 120
1,1-Dichloroethene	0.0200	0.0171		mg/Kg		86	76 - 120
1,2,3-Trichlorobenzene	0.0200	0.0203		mg/Kg		102	77 - 137
1,2,4-Trichlorobenzene	0.0200	0.0196		mg/Kg		98	77 - 136
1,2,4-Trimethylbenzene	0.0200	0.0195		mg/Kg		97	75 - 120
1,2-Dibromo-3-Chloropropane	0.0200	0.0187		mg/Kg		94	80 - 124
1,2-Dichlorobenzene	0.0200	0.0186		mg/Kg		93	80 - 120
1,2-Dichloroethane	0.0200	0.0199		mg/Kg		100	70 - 123
1,2-Dichloropropane	0.0200	0.0223		mg/Kg		111	73 - 124
1,3,5-Trimethylbenzene	0.0200	0.0193		mg/Kg		96	70 - 120
1,3-Dichlorobenzene	0.0200	0.0183		mg/Kg		92	80 - 120
1,4-Dichlorobenzene	0.0200	0.0187		mg/Kg		93	80 - 120
2-Butanone (MEK)	0.100	0.0706		mg/Kg		71	64 - 128
2-Hexanone	0.100	0.102		mg/Kg		102	75 - 120
4-Methyl-2-pentanone (MIBK)	0.100	0.102		mg/Kg		102	80 - 120
Acetone	0.100	0.0945		mg/Kg		94	58 - 122
Benzene	0.0200	0.0199		mg/Kg		99	75 - 120
Bromoform	0.0200	0.0205		mg/Kg		102	61 - 125
Bromomethane	0.0200	0.0158		mg/Kg		79	37 - 150
Carbon disulfide	0.0200	0.0216		mg/Kg		108	57 - 133
Carbon tetrachloride	0.0200	0.0193		mg/Kg		96	66 - 127
Chlorobenzene	0.0200	0.0192		mg/Kg		96	80 - 120

Eurofins Edison

QC Sample Results

Client: Haley & Aldrich Inc
Project/Site: Former Port Mobil

Job ID: 460-348810-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 460-1101958/3

Matrix: Solid

Analysis Batch: 1101958

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chlorobromomethane	0.0200	0.0184		mg/Kg		92	76 - 127
Chlorodibromomethane	0.0200	0.0182		mg/Kg		91	72 - 120
Chloroethane	0.0200	0.0186		mg/Kg		93	60 - 123
Chloroform	0.0200	0.0191		mg/Kg		96	79 - 126
Chloromethane	0.0200	0.0265	*	mg/Kg		132	46 - 122
cis-1,2-Dichloroethene	0.0200	0.0182		mg/Kg		91	80 - 123
cis-1,3-Dichloropropene	0.0200	0.0206		mg/Kg		103	75 - 120
Cyclohexane	0.0200	0.0204		mg/Kg		102	65 - 132
Dichlorobromomethane	0.0200	0.0198		mg/Kg		99	77 - 124
Dichlorodifluoromethane	0.0200	0.0224		mg/Kg		112	45 - 129
Ethylbenzene	0.0200	0.0182		mg/Kg		91	80 - 120
Ethylene Dibromide	0.0200	0.0181		mg/Kg		91	79 - 120
Isopropylbenzene	0.0200	0.0221		mg/Kg		111	74 - 120
Methyl acetate	0.0400	0.0496	*	mg/Kg		124	57 - 120
Methyl tert-butyl ether	0.0200	0.0184		mg/Kg		92	74 - 125
Methylcyclohexane	0.0200	0.0206		mg/Kg		103	66 - 125
Methylene Chloride	0.0200	0.0198		mg/Kg		99	78 - 120
m-Xylene & p-Xylene	0.0200	0.0195		mg/Kg		97	80 - 120
n-Butylbenzene	0.0200	0.0196		mg/Kg		98	72 - 120
N-Propylbenzene	0.0200	0.0183		mg/Kg		91	68 - 120
o-Xylene	0.0200	0.0190		mg/Kg		95	80 - 120
sec-Butylbenzene	0.0200	0.0197		mg/Kg		99	78 - 120
Styrene	0.0200	0.0206		mg/Kg		103	80 - 120
tert-Butylbenzene	0.0200	0.0185		mg/Kg		92	80 - 120
Tetrachloroethene	0.0200	0.0193		mg/Kg		97	73 - 120
Toluene	0.0200	0.0193		mg/Kg		96	80 - 120
trans-1,2-Dichloroethene	0.0200	0.0180		mg/Kg		90	78 - 120
trans-1,3-Dichloropropene	0.0200	0.0206		mg/Kg		103	77 - 120
Trichloroethene	0.0200	0.0187		mg/Kg		93	80 - 120
Trichlorofluoromethane	0.0200	0.0190		mg/Kg		95	61 - 130
Vinyl chloride	0.0200	0.0192		mg/Kg		96	54 - 122
Xylenes, Total	0.0400	0.0385		mg/Kg		96	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		65 - 138
4-Bromofluorobenzene	103		71 - 128
Dibromofluoromethane (Surr)	91		50 - 150
Toluene-d8 (Surr)	101		71 - 126

Lab Sample ID: LCSD 460-1101958/4

Matrix: Solid

Analysis Batch: 1101958

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	0.0200	0.0185		mg/Kg		93	78 - 120	3	30
1,1,1,2,2-Tetrachloroethane	0.0200	0.0175		mg/Kg		87	70 - 133	4	30
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0200	0.0177		mg/Kg		89	75 - 121	3	30
1,1,2-Trichloroethane	0.0200	0.0186		mg/Kg		93	80 - 120	3	30

Eurofins Edison

QC Sample Results

Client: Haley & Aldrich Inc
Project/Site: Former Port Mobil

Job ID: 460-348810-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 460-1101958/4

Matrix: Solid

Analysis Batch: 1101958

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1-Dichloroethane	0.0200	0.0217		mg/Kg		108	72 - 120	4	30
1,1-Dichloroethene	0.0200	0.0169		mg/Kg		85	76 - 120	1	30
1,2,3-Trichlorobenzene	0.0200	0.0197		mg/Kg		98	77 - 137	3	30
1,2,4-Trichlorobenzene	0.0200	0.0194		mg/Kg		97	77 - 136	1	30
1,2,4-Trimethylbenzene	0.0200	0.0191		mg/Kg		96	75 - 120	2	30
1,2-Dibromo-3-Chloropropane	0.0200	0.0178		mg/Kg		89	80 - 124	5	30
1,2-Dichlorobenzene	0.0200	0.0181		mg/Kg		91	80 - 120	3	30
1,2-Dichloroethane	0.0200	0.0195		mg/Kg		97	70 - 123	2	30
1,2-Dichloropropane	0.0200	0.0215		mg/Kg		107	73 - 124	4	30
1,3,5-Trimethylbenzene	0.0200	0.0192		mg/Kg		96	70 - 120	0	30
1,3-Dichlorobenzene	0.0200	0.0180		mg/Kg		90	80 - 120	2	30
1,4-Dichlorobenzene	0.0200	0.0182		mg/Kg		91	80 - 120	3	30
2-Butanone (MEK)	0.100	0.0699		mg/Kg		70	64 - 128	1	30
2-Hexanone	0.100	0.0996		mg/Kg		100	75 - 120	2	30
4-Methyl-2-pentanone (MIBK)	0.100	0.0981		mg/Kg		98	80 - 120	4	30
Acetone	0.100	0.0928		mg/Kg		93	58 - 122	2	30
Benzene	0.0200	0.0195		mg/Kg		98	75 - 120	2	30
Bromoform	0.0200	0.0196		mg/Kg		98	61 - 125	4	30
Bromomethane	0.0200	0.0154		mg/Kg		77	37 - 150	2	30
Carbon disulfide	0.0200	0.0212		mg/Kg		106	57 - 133	2	30
Carbon tetrachloride	0.0200	0.0190		mg/Kg		95	66 - 127	2	30
Chlorobenzene	0.0200	0.0191		mg/Kg		95	80 - 120	0	30
Chlorobromomethane	0.0200	0.0177		mg/Kg		88	76 - 127	4	30
Chlorodibromomethane	0.0200	0.0179		mg/Kg		90	72 - 120	2	30
Chloroethane	0.0200	0.0191		mg/Kg		95	60 - 123	2	30
Chloroform	0.0200	0.0182		mg/Kg		91	79 - 126	5	30
Chloromethane	0.0200	0.0269	*	mg/Kg		134	46 - 122	2	30
cis-1,2-Dichloroethene	0.0200	0.0172		mg/Kg		86	80 - 123	6	30
cis-1,3-Dichloropropene	0.0200	0.0200		mg/Kg		100	75 - 120	3	30
Cyclohexane	0.0200	0.0196		mg/Kg		98	65 - 132	4	30
Dichlorobromomethane	0.0200	0.0197		mg/Kg		98	77 - 124	0	30
Dichlorodifluoromethane	0.0200	0.0228		mg/Kg		114	45 - 129	2	30
Ethylbenzene	0.0200	0.0183		mg/Kg		92	80 - 120	0	30
Ethylene Dibromide	0.0200	0.0177		mg/Kg		88	79 - 120	3	30
Isopropylbenzene	0.0200	0.0216		mg/Kg		108	74 - 120	2	30
Methyl acetate	0.0400	0.0484	*	mg/Kg		121	57 - 120	3	30
Methyl tert-butyl ether	0.0200	0.0179		mg/Kg		89	74 - 125	3	30
Methylcyclohexane	0.0200	0.0198		mg/Kg		99	66 - 125	4	30
Methylene Chloride	0.0200	0.0195		mg/Kg		97	78 - 120	2	30
m-Xylene & p-Xylene	0.0200	0.0191		mg/Kg		96	80 - 120	2	30
n-Butylbenzene	0.0200	0.0193		mg/Kg		97	72 - 120	2	30
N-Propylbenzene	0.0200	0.0183		mg/Kg		92	68 - 120	0	30
o-Xylene	0.0200	0.0189		mg/Kg		95	80 - 120	0	30
sec-Butylbenzene	0.0200	0.0195		mg/Kg		98	78 - 120	1	30
Styrene	0.0200	0.0201		mg/Kg		100	80 - 120	3	30
tert-Butylbenzene	0.0200	0.0182		mg/Kg		91	80 - 120	2	30
Tetrachloroethene	0.0200	0.0196		mg/Kg		98	73 - 120	1	30
Toluene	0.0200	0.0188		mg/Kg		94	80 - 120	2	30
trans-1,2-Dichloroethene	0.0200	0.0178		mg/Kg		89	78 - 120	1	30

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QC Sample Results

Client: Haley & Aldrich Inc
Project/Site: Former Port Mobil

Job ID: 460-348810-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 460-1101958/4

Matrix: Solid

Analysis Batch: 1101958

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
trans-1,3-Dichloropropene	0.0200	0.0201		mg/Kg		101	77 - 120	3	30
Trichloroethene	0.0200	0.0184		mg/Kg		92	80 - 120	2	30
Trichlorofluoromethane	0.0200	0.0190		mg/Kg		95	61 - 130	0	30
Vinyl chloride	0.0200	0.0192		mg/Kg		96	54 - 122	0	30
Xylenes, Total	0.0400	0.0381		mg/Kg		95	80 - 120	1	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
1,2-Dichloroethane-d4 (Surr)	99		65 - 138
4-Bromofluorobenzene	104		71 - 128
Dibromofluoromethane (Surr)	92		50 - 150
Toluene-d8 (Surr)	102		71 - 126

Lab Sample ID: MB 460-1102111/7

Matrix: Solid

Analysis Batch: 1102111

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.0010	U	0.0010	0.00023	mg/Kg			04/17/26 18:28	1
1,1,2,2-Tetrachloroethane	0.0010	U	0.0010	0.00052	mg/Kg			04/17/26 18:28	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0010	U	0.0010	0.00030	mg/Kg			04/17/26 18:28	1
1,1,2-Trichloroethane	0.0010	U	0.0010	0.00060	mg/Kg			04/17/26 18:28	1
1,1-Dichloroethane	0.0010	U	0.0010	0.00060	mg/Kg			04/17/26 18:28	1
1,1-Dichloroethene	0.0010	U	0.0010	0.00023	mg/Kg			04/17/26 18:28	1
1,2,3-Trichlorobenzene	0.0010	U	0.0010	0.00074	mg/Kg			04/17/26 18:28	1
1,2,4-Trichlorobenzene	0.0010	U	0.0010	0.00036	mg/Kg			04/17/26 18:28	1
1,2,4-Trimethylbenzene	0.0010	U	0.0010	0.00025	mg/Kg			04/17/26 18:28	1
1,2-Dibromo-3-Chloropropane	0.0010	U	0.0010	0.00046	mg/Kg			04/17/26 18:28	1
1,2-Dichlorobenzene	0.0010	U	0.0010	0.00036	mg/Kg			04/17/26 18:28	1
1,2-Dichloroethane	0.0010	U	0.0010	0.00030	mg/Kg			04/17/26 18:28	1
1,2-Dichloropropane	0.0010	U	0.0010	0.00042	mg/Kg			04/17/26 18:28	1
1,3,5-Trimethylbenzene	0.0010	U	0.0010	0.00031	mg/Kg			04/17/26 18:28	1
1,3-Dichlorobenzene	0.0010	U	0.0010	0.00037	mg/Kg			04/17/26 18:28	1
1,4-Dichlorobenzene	0.0010	U	0.0010	0.00052	mg/Kg			04/17/26 18:28	1
2-Butanone (MEK)	0.0050	U	0.0050	0.00037	mg/Kg			04/17/26 18:28	1
2-Hexanone	0.0050	U	0.0050	0.0017	mg/Kg			04/17/26 18:28	1
4-Methyl-2-pentanone (MIBK)	0.0050	U	0.0050	0.0016	mg/Kg			04/17/26 18:28	1
Acetone	0.0060	U	0.0060	0.0057	mg/Kg			04/17/26 18:28	1
Benzene	0.0010	U	0.0010	0.00057	mg/Kg			04/17/26 18:28	1
Bromoform	0.0010	U	0.0010	0.00043	mg/Kg			04/17/26 18:28	1
Bromomethane	0.0020	U	0.0020	0.0010	mg/Kg			04/17/26 18:28	1
Carbon disulfide	0.0010	U	0.0010	0.00027	mg/Kg			04/17/26 18:28	1
Carbon tetrachloride	0.0010	U	0.0010	0.00039	mg/Kg			04/17/26 18:28	1
Chlorobenzene	0.0010	U	0.0010	0.00051	mg/Kg			04/17/26 18:28	1
Chlorobromomethane	0.0010	U	0.0010	0.00060	mg/Kg			04/17/26 18:28	1
Chlorodibromomethane	0.0010	U	0.0010	0.00054	mg/Kg			04/17/26 18:28	1
Chloroethane	0.0010	U	0.0010	0.00052	mg/Kg			04/17/26 18:28	1
Chloroform	0.0010	U	0.0010	0.00097	mg/Kg			04/17/26 18:28	1
Chloromethane	0.0010	U	0.0010	0.00044	mg/Kg			04/17/26 18:28	1

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QC Sample Results

Client: Haley & Aldrich Inc
Project/Site: Former Port Mobil

Job ID: 460-348810-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 460-1102111/7

Matrix: Solid

Analysis Batch: 1102111

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	0.0010	U	0.0010	0.00036	mg/Kg			04/17/26 18:28	1
cis-1,3-Dichloropropene	0.0010	U	0.0010	0.00027	mg/Kg			04/17/26 18:28	1
Cyclohexane	0.0010	U	0.0010	0.00022	mg/Kg			04/17/26 18:28	1
Dichlorobromomethane	0.0010	U	0.0010	0.00026	mg/Kg			04/17/26 18:28	1
Dichlorodifluoromethane	0.0010	U	0.0010	0.00034	mg/Kg			04/17/26 18:28	1
Ethylbenzene	0.0010	U	0.0010	0.00047	mg/Kg			04/17/26 18:28	1
Ethylene Dibromide	0.0010	U	0.0010	0.00050	mg/Kg			04/17/26 18:28	1
Isopropylbenzene	0.0010	U	0.0010	0.00029	mg/Kg			04/17/26 18:28	1
Methyl acetate	0.0050	U	0.0050	0.0043	mg/Kg			04/17/26 18:28	1
Methyl tert-butyl ether	0.0010	U	0.0010	0.00051	mg/Kg			04/17/26 18:28	1
Methylcyclohexane	0.0010	U	0.0010	0.00050	mg/Kg			04/17/26 18:28	1
Methylene Chloride	0.0020	U	0.0020	0.0011	mg/Kg			04/17/26 18:28	1
m-Xylene & p-Xylene	0.0010	U	0.0010	0.00042	mg/Kg			04/17/26 18:28	1
n-Butylbenzene	0.0010	U	0.0010	0.00029	mg/Kg			04/17/26 18:28	1
N-Propylbenzene	0.0010	U	0.0010	0.00045	mg/Kg			04/17/26 18:28	1
o-Xylene	0.0010	U	0.0010	0.00046	mg/Kg			04/17/26 18:28	1
sec-Butylbenzene	0.0010	U	0.0010	0.00029	mg/Kg			04/17/26 18:28	1
Styrene	0.0010	U	0.0010	0.00028	mg/Kg			04/17/26 18:28	1
tert-Butylbenzene	0.0010	U	0.0010	0.00028	mg/Kg			04/17/26 18:28	1
Tetrachloroethene	0.0010	U	0.0010	0.00031	mg/Kg			04/17/26 18:28	1
Toluene	0.0010	U	0.0010	0.00023	mg/Kg			04/17/26 18:28	1
trans-1,2-Dichloroethene	0.0010	U	0.0010	0.00025	mg/Kg			04/17/26 18:28	1
trans-1,3-Dichloropropene	0.0010	U	0.0010	0.00027	mg/Kg			04/17/26 18:28	1
Trichloroethene	0.0010	U	0.0010	0.00032	mg/Kg			04/17/26 18:28	1
Trichlorofluoromethane	0.0010	U	0.0010	0.00041	mg/Kg			04/17/26 18:28	1
Vinyl chloride	0.0010	U	0.0010	0.00055	mg/Kg			04/17/26 18:28	1
Xylenes, Total	0.0020	U	0.0020	0.00017	mg/Kg			04/17/26 18:28	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		65 - 138		04/17/26 18:28	1
4-Bromofluorobenzene	104		71 - 128		04/17/26 18:28	1
Dibromofluoromethane (Surr)	98		50 - 150		04/17/26 18:28	1
Toluene-d8 (Surr)	102		71 - 126		04/17/26 18:28	1

Lab Sample ID: LCS 460-1102111/2

Matrix: Solid

Analysis Batch: 1102111

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	0.0200	0.0202		mg/Kg		101	78 - 120
1,1,1,2-Tetrachloroethane	0.0200	0.0186		mg/Kg		93	70 - 133
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0200	0.0196		mg/Kg		98	75 - 121
1,1,2-Trichloroethane	0.0200	0.0206		mg/Kg		103	80 - 120
1,1-Dichloroethane	0.0200	0.0243	*	mg/Kg		121	72 - 120
1,1-Dichloroethene	0.0200	0.0191		mg/Kg		96	76 - 120
1,2,3-Trichlorobenzene	0.0200	0.0205		mg/Kg		102	77 - 137
1,2,4-Trichlorobenzene	0.0200	0.0204		mg/Kg		102	77 - 136
1,2,4-Trimethylbenzene	0.0200	0.0206		mg/Kg		103	75 - 120

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QC Sample Results

Client: Haley & Aldrich Inc
Project/Site: Former Port Mobil

Job ID: 460-348810-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 460-1102111/2

Matrix: Solid

Analysis Batch: 1102111

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromo-3-Chloropropane	0.0200	0.0194		mg/Kg		97	80 - 124
1,2-Dichlorobenzene	0.0200	0.0196		mg/Kg		98	80 - 120
1,2-Dichloroethane	0.0200	0.0218		mg/Kg		109	70 - 123
1,2-Dichloropropane	0.0200	0.0250	*	mg/Kg		125	73 - 124
1,3,5-Trimethylbenzene	0.0200	0.0202		mg/Kg		101	70 - 120
1,3-Dichlorobenzene	0.0200	0.0192		mg/Kg		96	80 - 120
1,4-Dichlorobenzene	0.0200	0.0197		mg/Kg		99	80 - 120
2-Butanone (MEK)	0.100	0.0787		mg/Kg		79	64 - 128
2-Hexanone	0.100	0.107		mg/Kg		107	75 - 120
4-Methyl-2-pentanone (MIBK)	0.100	0.108		mg/Kg		108	80 - 120
Acetone	0.100	0.102		mg/Kg		102	58 - 122
Benzene	0.0200	0.0218		mg/Kg		109	75 - 120
Bromoform	0.0200	0.0224		mg/Kg		112	61 - 125
Bromomethane	0.0200	0.0148		mg/Kg		74	37 - 150
Carbon disulfide	0.0200	0.0260		mg/Kg		130	57 - 133
Carbon tetrachloride	0.0200	0.0208		mg/Kg		104	66 - 127
Chlorobenzene	0.0200	0.0207		mg/Kg		104	80 - 120
Chlorobromomethane	0.0200	0.0199		mg/Kg		100	76 - 127
Chlorodibromomethane	0.0200	0.0200		mg/Kg		100	72 - 120
Chloroethane	0.0200	0.0181		mg/Kg		90	60 - 123
Chloroform	0.0200	0.0202		mg/Kg		101	79 - 126
Chloromethane	0.0200	0.0252	*	mg/Kg		126	46 - 122
cis-1,2-Dichloroethene	0.0200	0.0195		mg/Kg		98	80 - 123
cis-1,3-Dichloropropene	0.0200	0.0223		mg/Kg		111	75 - 120
Cyclohexane	0.0200	0.0225		mg/Kg		113	65 - 132
Dichlorobromomethane	0.0200	0.0215		mg/Kg		107	77 - 124
Dichlorodifluoromethane	0.0200	0.0195		mg/Kg		97	45 - 129
Ethylbenzene	0.0200	0.0199		mg/Kg		100	80 - 120
Ethylene Dibromide	0.0200	0.0197		mg/Kg		98	79 - 120
Isopropylbenzene	0.0200	0.0232		mg/Kg		116	74 - 120
Methyl acetate	0.0400	0.0503	*	mg/Kg		126	57 - 120
Methyl tert-butyl ether	0.0200	0.0198		mg/Kg		99	74 - 125
Methylcyclohexane	0.0200	0.0226		mg/Kg		113	66 - 125
Methylene Chloride	0.0200	0.0217		mg/Kg		109	78 - 120
m-Xylene & p-Xylene	0.0200	0.0210		mg/Kg		105	80 - 120
n-Butylbenzene	0.0200	0.0200		mg/Kg		100	72 - 120
N-Propylbenzene	0.0200	0.0191		mg/Kg		96	68 - 120
o-Xylene	0.0200	0.0205		mg/Kg		103	80 - 120
sec-Butylbenzene	0.0200	0.0205		mg/Kg		103	78 - 120
Styrene	0.0200	0.0219		mg/Kg		109	80 - 120
tert-Butylbenzene	0.0200	0.0195		mg/Kg		98	80 - 120
Tetrachloroethene	0.0200	0.0213		mg/Kg		107	73 - 120
Toluene	0.0200	0.0209		mg/Kg		104	80 - 120
trans-1,2-Dichloroethene	0.0200	0.0200		mg/Kg		100	78 - 120
trans-1,3-Dichloropropene	0.0200	0.0218		mg/Kg		109	77 - 120
Trichloroethene	0.0200	0.0207		mg/Kg		103	80 - 120
Trichlorofluoromethane	0.0200	0.0182		mg/Kg		91	61 - 130
Vinyl chloride	0.0200	0.0178		mg/Kg		89	54 - 122
Xylenes, Total	0.0400	0.0416		mg/Kg		104	80 - 120

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QC Sample Results

Client: Haley & Aldrich Inc
Project/Site: Former Port Mobil

Job ID: 460-348810-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	101		65 - 138
4-Bromofluorobenzene	105		71 - 128
Dibromofluoromethane (Surr)	95		50 - 150
Toluene-d8 (Surr)	101		71 - 126

Lab Sample ID: LCSD 460-1102111/3

Matrix: Solid

Analysis Batch: 1102111

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	RPD Limit
							Limits			
1,1,1-Trichloroethane	0.0200	0.0186		mg/Kg		93	78 - 120		8	30
1,1,2,2-Tetrachloroethane	0.0200	0.0190		mg/Kg		95	70 - 133		2	30
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0200	0.0175		mg/Kg		87	75 - 121		11	30
1,1,2-Trichloroethane	0.0200	0.0209		mg/Kg		105	80 - 120		2	30
1,1-Dichloroethane	0.0200	0.0232		mg/Kg		116	72 - 120		5	30
1,1-Dichloroethene	0.0200	0.0175		mg/Kg		87	76 - 120		9	30
1,2,3-Trichlorobenzene	0.0200	0.0206		mg/Kg		103	77 - 137		1	30
1,2,4-Trichlorobenzene	0.0200	0.0198		mg/Kg		99	77 - 136		3	30
1,2,4-Trimethylbenzene	0.0200	0.0197		mg/Kg		98	75 - 120		4	30
1,2-Dibromo-3-Chloropropane	0.0200	0.0199		mg/Kg		100	80 - 124		3	30
1,2-Dichlorobenzene	0.0200	0.0190		mg/Kg		95	80 - 120		3	30
1,2-Dichloroethane	0.0200	0.0213		mg/Kg		106	70 - 123		3	30
1,2-Dichloropropane	0.0200	0.0235		mg/Kg		117	73 - 124		6	30
1,3,5-Trimethylbenzene	0.0200	0.0194		mg/Kg		97	70 - 120		4	30
1,3-Dichlorobenzene	0.0200	0.0189		mg/Kg		95	80 - 120		2	30
1,4-Dichlorobenzene	0.0200	0.0189		mg/Kg		94	80 - 120		4	30
2-Butanone (MEK)	0.100	0.0788		mg/Kg		79	64 - 128		0	30
2-Hexanone	0.100	0.109		mg/Kg		109	75 - 120		2	30
4-Methyl-2-pentanone (MIBK)	0.100	0.107		mg/Kg		107	80 - 120		1	30
Acetone	0.100	0.101		mg/Kg		101	58 - 122		0	30
Benzene	0.0200	0.0212		mg/Kg		106	75 - 120		3	30
Bromoform	0.0200	0.0220		mg/Kg		110	61 - 125		2	30
Bromomethane	0.0200	0.0137		mg/Kg		68	37 - 150		8	30
Carbon disulfide	0.0200	0.0235		mg/Kg		118	57 - 133		10	30
Carbon tetrachloride	0.0200	0.0191		mg/Kg		95	66 - 127		9	30
Chlorobenzene	0.0200	0.0205		mg/Kg		103	80 - 120		1	30
Chlorobromomethane	0.0200	0.0194		mg/Kg		97	76 - 127		3	30
Chlorodibromomethane	0.0200	0.0201		mg/Kg		101	72 - 120		1	30
Chloroethane	0.0200	0.0162		mg/Kg		81	60 - 123		11	30
Chloroform	0.0200	0.0193		mg/Kg		96	79 - 126		5	30
Chloromethane	0.0200	0.0230		mg/Kg		115	46 - 122		9	30
cis-1,2-Dichloroethene	0.0200	0.0187		mg/Kg		94	80 - 123		4	30
cis-1,3-Dichloropropene	0.0200	0.0221		mg/Kg		110	75 - 120		1	30
Cyclohexane	0.0200	0.0203		mg/Kg		102	65 - 132		10	30
Dichlorobromomethane	0.0200	0.0211		mg/Kg		106	77 - 124		2	30
Dichlorodifluoromethane	0.0200	0.0165		mg/Kg		83	45 - 129		16	30
Ethylbenzene	0.0200	0.0193		mg/Kg		96	80 - 120		3	30
Ethylene Dibromide	0.0200	0.0196		mg/Kg		98	79 - 120		0	30
Isopropylbenzene	0.0200	0.0221		mg/Kg		111	74 - 120		5	30
Methyl acetate	0.0400	0.0516	*	mg/Kg		129	57 - 120		3	30
Methyl tert-butyl ether	0.0200	0.0195		mg/Kg		97	74 - 125		2	30

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QC Sample Results

Client: Haley & Aldrich Inc
Project/Site: Former Port Mobil

Job ID: 460-348810-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 460-1102111/3

Matrix: Solid

Analysis Batch: 1102111

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methylcyclohexane	0.0200	0.0207		mg/Kg		104	66 - 125	9	30
Methylene Chloride	0.0200	0.0208		mg/Kg		104	78 - 120	4	30
m-Xylene & p-Xylene	0.0200	0.0202		mg/Kg		101	80 - 120	4	30
n-Butylbenzene	0.0200	0.0188		mg/Kg		94	72 - 120	6	30
N-Propylbenzene	0.0200	0.0184		mg/Kg		92	68 - 120	4	30
o-Xylene	0.0200	0.0200		mg/Kg		100	80 - 120	3	30
sec-Butylbenzene	0.0200	0.0192		mg/Kg		96	78 - 120	7	30
Styrene	0.0200	0.0215		mg/Kg		107	80 - 120	2	30
tert-Butylbenzene	0.0200	0.0183		mg/Kg		91	80 - 120	7	30
Tetrachloroethene	0.0200	0.0203		mg/Kg		102	73 - 120	5	30
Toluene	0.0200	0.0202		mg/Kg		101	80 - 120	3	30
trans-1,2-Dichloroethene	0.0200	0.0190		mg/Kg		95	78 - 120	5	30
trans-1,3-Dichloropropene	0.0200	0.0217		mg/Kg		109	77 - 120	0	30
Trichloroethene	0.0200	0.0193		mg/Kg		96	80 - 120	7	30
Trichlorofluoromethane	0.0200	0.0159		mg/Kg		79	61 - 130	13	30
Vinyl chloride	0.0200	0.0157		mg/Kg		78	54 - 122	13	30
Xylenes, Total	0.0400	0.0403		mg/Kg		101	80 - 120	3	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		65 - 138
4-Bromofluorobenzene	105		71 - 128
Dibromofluoromethane (Surr)	92		50 - 150
Toluene-d8 (Surr)	102		71 - 126

Lab Sample ID: MB 460-1102402/9

Matrix: Solid

Analysis Batch: 1102402

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.050	U	0.050	0.014	mg/Kg			04/19/26 08:25	50
1,1,2,2-Tetrachloroethane	0.050	U	0.050	0.0099	mg/Kg			04/19/26 08:25	50
1,1,2-Trichloro-1,2,2-trifluoroethane	0.050	U	0.050	0.017	mg/Kg			04/19/26 08:25	50
1,1,2-Trichloroethane	0.050	U	0.050	0.010	mg/Kg			04/19/26 08:25	50
1,1-Dichloroethane	0.050	U	0.050	0.012	mg/Kg			04/19/26 08:25	50
1,1-Dichloroethene	0.050	U	0.050	0.013	mg/Kg			04/19/26 08:25	50
1,2,3-Trichlorobenzene	0.050	U	0.050	0.018	mg/Kg			04/19/26 08:25	50
1,2,4-Trichlorobenzene	0.050	U	0.050	0.014	mg/Kg			04/19/26 08:25	50
1,2,4-Trimethylbenzene	0.050	U	0.050	0.012	mg/Kg			04/19/26 08:25	50
1,2-Dibromo-3-Chloropropane	0.050	U	0.050	0.011	mg/Kg			04/19/26 08:25	50
1,2-Dichlorobenzene	0.050	U	0.050	0.011	mg/Kg			04/19/26 08:25	50
1,2-Dichloroethane	0.050	U	0.050	0.013	mg/Kg			04/19/26 08:25	50
1,2-Dichloropropane	0.050	U	0.050	0.0090	mg/Kg			04/19/26 08:25	50
1,3,5-Trimethylbenzene	0.050	U	0.050	0.013	mg/Kg			04/19/26 08:25	50
1,3-Dichlorobenzene	0.050	U	0.050	0.017	mg/Kg			04/19/26 08:25	50
1,4-Dichlorobenzene	0.050	U	0.050	0.017	mg/Kg			04/19/26 08:25	50
2-Butanone (MEK)	0.25	U	0.25	0.11	mg/Kg			04/19/26 08:25	50
2-Hexanone	0.25	U	0.25	0.057	mg/Kg			04/19/26 08:25	50
4-Methyl-2-pentanone (MIBK)	0.25	U	0.25	0.065	mg/Kg			04/19/26 08:25	50

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QC Sample Results

Client: Haley & Aldrich Inc
Project/Site: Former Port Mobil

Job ID: 460-348810-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 460-1102402/9

Matrix: Solid

Analysis Batch: 1102402

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.25	U	0.25	0.22	mg/Kg			04/19/26 08:25	50
Benzene	0.050	U	0.050	0.010	mg/Kg			04/19/26 08:25	50
Bromoform	0.050	U	0.050	0.0090	mg/Kg			04/19/26 08:25	50
Bromomethane	0.050	U	0.050	0.028	mg/Kg			04/19/26 08:25	50
Carbon disulfide	0.050	U	0.050	0.034	mg/Kg			04/19/26 08:25	50
Carbon tetrachloride	0.050	U	0.050	0.017	mg/Kg			04/19/26 08:25	50
Chlorobenzene	0.050	U	0.050	0.012	mg/Kg			04/19/26 08:25	50
Chlorobromomethane	0.050	U	0.050	0.015	mg/Kg			04/19/26 08:25	50
Chlorodibromomethane	0.050	U	0.050	0.011	mg/Kg			04/19/26 08:25	50
Chloroethane	0.050	U	0.050	0.019	mg/Kg			04/19/26 08:25	50
Chloroform	0.050	U	0.050	0.011	mg/Kg			04/19/26 08:25	50
Chloromethane	0.050	U	0.050	0.020	mg/Kg			04/19/26 08:25	50
cis-1,2-Dichloroethene	0.050	U	0.050	0.013	mg/Kg			04/19/26 08:25	50
cis-1,3-Dichloropropene	0.050	U	0.050	0.011	mg/Kg			04/19/26 08:25	50
Cyclohexane	0.050	U	0.050	0.013	mg/Kg			04/19/26 08:25	50
Dichlorobromomethane	0.050	U	0.050	0.0075	mg/Kg			04/19/26 08:25	50
Dichlorodifluoromethane	0.050	U	0.050	0.016	mg/Kg			04/19/26 08:25	50
Ethylbenzene	0.050	U	0.050	0.015	mg/Kg			04/19/26 08:25	50
Ethylene Dibromide	0.050	U	0.050	0.0095	mg/Kg			04/19/26 08:25	50
Isopropylbenzene	0.050	U	0.050	0.016	mg/Kg			04/19/26 08:25	50
Methyl acetate	0.25	U	0.25	0.039	mg/Kg			04/19/26 08:25	50
Methyl tert-butyl ether	0.050	U	0.050	0.011	mg/Kg			04/19/26 08:25	50
Methylcyclohexane	0.050	U	0.050	0.036	mg/Kg			04/19/26 08:25	50
Methylene Chloride	0.050	U	0.050	0.011	mg/Kg			04/19/26 08:25	50
m-Xylene & p-Xylene	0.050	U	0.050	0.014	mg/Kg			04/19/26 08:25	50
n-Butylbenzene	0.050	U	0.050	0.014	mg/Kg			04/19/26 08:25	50
N-Propylbenzene	0.050	U	0.050	0.015	mg/Kg			04/19/26 08:25	50
o-Xylene	0.050	U	0.050	0.016	mg/Kg			04/19/26 08:25	50
sec-Butylbenzene	0.050	U	0.050	0.016	mg/Kg			04/19/26 08:25	50
Styrene	0.050	U	0.050	0.0085	mg/Kg			04/19/26 08:25	50
tert-Butylbenzene	0.050	U	0.050	0.014	mg/Kg			04/19/26 08:25	50
Tetrachloroethene	0.050	U	0.050	0.018	mg/Kg			04/19/26 08:25	50
Toluene	0.050	U	0.050	0.013	mg/Kg			04/19/26 08:25	50
trans-1,2-Dichloroethene	0.050	U	0.050	0.0090	mg/Kg			04/19/26 08:25	50
trans-1,3-Dichloropropene	0.050	U	0.050	0.011	mg/Kg			04/19/26 08:25	50
Trichloroethene	0.050	U	0.050	0.011	mg/Kg			04/19/26 08:25	50
Trichlorofluoromethane	0.050	U	0.050	0.016	mg/Kg			04/19/26 08:25	50
Vinyl chloride	0.050	U	0.050	0.010	mg/Kg			04/19/26 08:25	50
Xylenes, Total	0.10	U	0.10	0.014	mg/Kg			04/19/26 08:25	50

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	86		60 - 150		04/19/26 08:25	50
4-Bromofluorobenzene	91		70 - 150		04/19/26 08:25	50
Dibromofluoromethane (Surr)	96		68 - 150		04/19/26 08:25	50
Toluene-d8 (Surr)	86		64 - 157		04/19/26 08:25	50

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QC Sample Results

Client: Haley & Aldrich Inc
Project/Site: Former Port Mobil

Job ID: 460-348810-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 460-1102402/3

Matrix: Solid

Analysis Batch: 1102402

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	1.00	0.831		mg/Kg		83	76 - 120
1,1,2,2-Tetrachloroethane	1.00	0.914		mg/Kg		91	72 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	1.00	0.871		mg/Kg		87	79 - 120
1,1,2-Trichloroethane	1.00	0.948		mg/Kg		95	80 - 120
1,1-Dichloroethane	1.00	0.925		mg/Kg		92	70 - 120
1,1-Dichloroethene	1.00	0.758		mg/Kg		76	69 - 120
1,2,3-Trichlorobenzene	1.00	1.14		mg/Kg		114	80 - 137
1,2,4-Trichlorobenzene	1.00	1.00		mg/Kg		100	80 - 134
1,2,4-Trimethylbenzene	1.00	0.948		mg/Kg		95	75 - 120
1,2-Dibromo-3-Chloropropane	1.00	0.853		mg/Kg		85	68 - 134
1,2-Dichlorobenzene	1.00	0.992		mg/Kg		99	80 - 120
1,2-Dichloroethane	1.00	0.856		mg/Kg		86	72 - 124
1,2-Dichloropropane	1.00	0.872		mg/Kg		87	74 - 120
1,3,5-Trimethylbenzene	1.00	0.922		mg/Kg		92	71 - 120
1,3-Dichlorobenzene	1.00	0.955		mg/Kg		96	80 - 120
1,4-Dichlorobenzene	1.00	0.963		mg/Kg		96	80 - 120
2-Butanone (MEK)	5.00	4.09		mg/Kg		82	64 - 121
2-Hexanone	5.00	3.98		mg/Kg		80	70 - 120
4-Methyl-2-pentanone (MIBK)	5.00	4.54		mg/Kg		91	64 - 127
Acetone	5.00	4.02		mg/Kg		80	52 - 127
Benzene	1.00	0.893		mg/Kg		89	75 - 120
Bromoform	1.00	0.868		mg/Kg		87	68 - 122
Bromomethane	1.00	1.00		mg/Kg		100	16 - 125
Carbon disulfide	1.00	0.655		mg/Kg		66	59 - 127
Carbon tetrachloride	1.00	0.866		mg/Kg		87	77 - 120
Chlorobenzene	1.00	0.938		mg/Kg		94	80 - 120
Chlorobromomethane	1.00	0.857		mg/Kg		86	77 - 120
Chlorodibromomethane	1.00	0.915		mg/Kg		92	80 - 120
Chloroethane	1.00	1.04		mg/Kg		104	61 - 140
Chloroform	1.00	0.907		mg/Kg		91	73 - 120
Chloromethane	1.00	0.997		mg/Kg		100	42 - 136
cis-1,2-Dichloroethene	1.00	0.881		mg/Kg		88	73 - 120
cis-1,3-Dichloropropene	1.00	0.887		mg/Kg		89	79 - 120
Cyclohexane	1.00	0.873		mg/Kg		87	76 - 125
Dichlorobromomethane	1.00	0.844		mg/Kg		84	77 - 120
Dichlorodifluoromethane	1.00	1.04		mg/Kg		104	39 - 140
Ethylbenzene	1.00	0.893		mg/Kg		89	80 - 121
Ethylene Dibromide	1.00	0.901		mg/Kg		90	80 - 120
Isopropylbenzene	1.00	0.986		mg/Kg		99	74 - 125
Methyl acetate	2.00	1.51		mg/Kg		75	40 - 130
Methyl tert-butyl ether	1.00	0.796		mg/Kg		80	77 - 125
Methylcyclohexane	1.00	0.926		mg/Kg		93	75 - 127
Methylene Chloride	1.00	0.728		mg/Kg		73	73 - 120
m-Xylene & p-Xylene	1.00	0.876		mg/Kg		88	79 - 120
n-Butylbenzene	1.00	0.998		mg/Kg		100	68 - 120
N-Propylbenzene	1.00	0.924		mg/Kg		92	68 - 120
o-Xylene	1.00	0.879		mg/Kg		88	80 - 123
sec-Butylbenzene	1.00	0.936		mg/Kg		94	77 - 126

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QC Sample Results

Client: Haley & Aldrich Inc
Project/Site: Former Port Mobil

Job ID: 460-348810-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 460-1102402/3

Matrix: Solid

Analysis Batch: 1102402

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Styrene	1.00	0.903		mg/Kg		90	80 - 124
tert-Butylbenzene	1.00	0.878		mg/Kg		88	80 - 120
Tetrachloroethene	1.00	0.824		mg/Kg		82	78 - 120
Toluene	1.00	0.883		mg/Kg		88	80 - 120
trans-1,2-Dichloroethene	1.00	0.805		mg/Kg		80	70 - 120
trans-1,3-Dichloropropene	1.00	0.875		mg/Kg		87	73 - 120
Trichloroethene	1.00	0.763	*	mg/Kg		76	77 - 120
Trichlorofluoromethane	1.00	1.07		mg/Kg		107	61 - 143
Vinyl chloride	1.00	0.860		mg/Kg		86	50 - 131
Xylenes, Total	2.00	1.75		mg/Kg		88	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	108		60 - 150
4-Bromofluorobenzene	106		70 - 150
Dibromofluoromethane (Surr)	109		68 - 150
Toluene-d8 (Surr)	108		64 - 157

Lab Sample ID: LCSD 460-1102402/4

Matrix: Solid

Analysis Batch: 1102402

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	1.00	0.829		mg/Kg		83	76 - 120	0	30
1,1,2,2-Tetrachloroethane	1.00	0.868		mg/Kg		87	72 - 120	5	30
1,1,2-Trichloro-1,2,2-trifluoroethane	1.00	0.967		mg/Kg		97	79 - 120	10	30
1,1,2-Trichloroethane	1.00	0.908		mg/Kg		91	80 - 120	4	30
1,1-Dichloroethane	1.00	0.886		mg/Kg		89	70 - 120	4	30
1,1-Dichloroethene	1.00	0.703		mg/Kg		70	69 - 120	7	30
1,2,3-Trichlorobenzene	1.00	1.02		mg/Kg		102	80 - 137	11	30
1,2,4-Trichlorobenzene	1.00	0.938		mg/Kg		94	80 - 134	7	30
1,2,4-Trimethylbenzene	1.00	0.918		mg/Kg		92	75 - 120	3	30
1,2-Dibromo-3-Chloropropane	1.00	0.822		mg/Kg		82	68 - 134	4	30
1,2-Dichlorobenzene	1.00	0.914		mg/Kg		91	80 - 120	8	30
1,2-Dichloroethane	1.00	0.822		mg/Kg		82	72 - 124	4	30
1,2-Dichloropropane	1.00	0.905		mg/Kg		91	74 - 120	4	30
1,3,5-Trimethylbenzene	1.00	0.877		mg/Kg		88	71 - 120	5	30
1,3-Dichlorobenzene	1.00	0.905		mg/Kg		90	80 - 120	5	30
1,4-Dichlorobenzene	1.00	0.920		mg/Kg		92	80 - 120	4	30
2-Butanone (MEK)	5.00	4.25		mg/Kg		85	64 - 121	4	30
2-Hexanone	5.00	3.86		mg/Kg		77	70 - 120	3	30
4-Methyl-2-pentanone (MIBK)	5.00	4.57		mg/Kg		91	64 - 127	1	30
Acetone	5.00	4.14		mg/Kg		83	52 - 127	3	30
Benzene	1.00	0.850		mg/Kg		85	75 - 120	5	30
Bromoform	1.00	0.869		mg/Kg		87	68 - 122	0	30
Bromomethane	1.00	1.01		mg/Kg		101	16 - 125	1	30
Carbon disulfide	1.00	0.750		mg/Kg		75	59 - 127	13	30
Carbon tetrachloride	1.00	0.862		mg/Kg		86	77 - 120	1	30
Chlorobenzene	1.00	0.876		mg/Kg		88	80 - 120	7	30

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QC Sample Results

Client: Haley & Aldrich Inc
Project/Site: Former Port Mobil

Job ID: 460-348810-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 460-1102402/4

Matrix: Solid

Analysis Batch: 1102402

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chlorobromomethane	1.00	0.873		mg/Kg		87	77 - 120	2	30
Chlorodibromomethane	1.00	0.863		mg/Kg		86	80 - 120	6	30
Chloroethane	1.00	0.943		mg/Kg		94	61 - 140	10	30
Chloroform	1.00	0.895		mg/Kg		90	73 - 120	1	30
Chloromethane	1.00	0.878		mg/Kg		88	42 - 136	13	30
cis-1,2-Dichloroethene	1.00	0.862		mg/Kg		86	73 - 120	2	30
cis-1,3-Dichloropropene	1.00	0.847		mg/Kg		85	79 - 120	5	30
Cyclohexane	1.00	0.859		mg/Kg		86	76 - 125	2	30
Dichlorobromomethane	1.00	0.829		mg/Kg		83	77 - 120	2	30
Dichlorodifluoromethane	1.00	0.995		mg/Kg		100	39 - 140	4	30
Ethylbenzene	1.00	0.863		mg/Kg		86	80 - 121	4	30
Ethylene Dibromide	1.00	0.843		mg/Kg		84	80 - 120	7	30
Isopropylbenzene	1.00	0.967		mg/Kg		97	74 - 125	2	30
Methyl acetate	2.00	1.72		mg/Kg		86	40 - 130	14	30
Methyl tert-butyl ether	1.00	0.703	*	mg/Kg		70	77 - 125	12	30
Methylcyclohexane	1.00	0.945		mg/Kg		95	75 - 127	2	30
Methylene Chloride	1.00	0.673	*	mg/Kg		67	73 - 120	8	30
m-Xylene & p-Xylene	1.00	0.850		mg/Kg		85	79 - 120	3	30
n-Butylbenzene	1.00	0.928		mg/Kg		93	68 - 120	7	30
N-Propylbenzene	1.00	0.908		mg/Kg		91	68 - 120	2	30
o-Xylene	1.00	0.849		mg/Kg		85	80 - 123	3	30
sec-Butylbenzene	1.00	0.895		mg/Kg		89	77 - 126	4	30
Styrene	1.00	0.863		mg/Kg		86	80 - 124	5	30
tert-Butylbenzene	1.00	0.841		mg/Kg		84	80 - 120	4	30
Tetrachloroethene	1.00	0.817		mg/Kg		82	78 - 120	1	30
Toluene	1.00	0.845		mg/Kg		84	80 - 120	4	30
trans-1,2-Dichloroethene	1.00	0.746		mg/Kg		75	70 - 120	8	30
trans-1,3-Dichloropropene	1.00	0.832		mg/Kg		83	73 - 120	5	30
Trichloroethene	1.00	0.758	*	mg/Kg		76	77 - 120	1	30
Trichlorofluoromethane	1.00	0.993		mg/Kg		99	61 - 143	7	30
Vinyl chloride	1.00	0.790		mg/Kg		79	50 - 131	8	30
Xylenes, Total	2.00	1.70		mg/Kg		85	80 - 120	3	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
1,2-Dichloroethane-d4 (Surr)	91		60 - 150
4-Bromofluorobenzene	91		70 - 150
Dibromofluoromethane (Surr)	92		68 - 150
Toluene-d8 (Surr)	90		64 - 157

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 460-1101641/1-A

Matrix: Solid

Analysis Batch: 1101665

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 1101641

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.33	U	0.33	0.0029	mg/Kg		04/15/26 21:44	04/16/26 07:43	1
1,2,4,5-Tetrachlorobenzene	0.33	U	0.33	0.0074	mg/Kg		04/15/26 21:44	04/16/26 07:43	1
1,4-Dioxane	0.033	U	0.033	0.025	mg/Kg		04/15/26 21:44	04/16/26 07:43	1

Eurofins Edison

QC Sample Results

Client: Haley & Aldrich Inc
Project/Site: Former Port Mobil

Job ID: 460-348810-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 460-1101641/1-A

Matrix: Solid

Analysis Batch: 1101665

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 1101641

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
2,2'-oxybis[1-chloropropane]	0.33	U	0.33	0.015	mg/Kg		04/15/26 21:44	04/16/26 07:43	1
2,3,4,6-Tetrachlorophenol	0.33	U	0.33	0.0063	mg/Kg		04/15/26 21:44	04/16/26 07:43	1
2,4,5-Trichlorophenol	0.33	U	0.33	0.015	mg/Kg		04/15/26 21:44	04/16/26 07:43	1
2,4,6-Trichlorophenol	0.13	U	0.13	0.010	mg/Kg		04/15/26 21:44	04/16/26 07:43	1
2,4-Dichlorophenol	0.13	U	0.13	0.020	mg/Kg		04/15/26 21:44	04/16/26 07:43	1
2,4-Dimethylphenol	0.33	U	0.33	0.018	mg/Kg		04/15/26 21:44	04/16/26 07:43	1
2,4-Dinitrophenol	0.27	U	0.27	0.12	mg/Kg		04/15/26 21:44	04/16/26 07:43	1
2,4-Dinitrotoluene	0.067	U	0.067	0.013	mg/Kg		04/15/26 21:44	04/16/26 07:43	1
2,6-Dinitrotoluene	0.067	U	0.067	0.011	mg/Kg		04/15/26 21:44	04/16/26 07:43	1
2-Chloronaphthalene	0.33	U	0.33	0.0036	mg/Kg		04/15/26 21:44	04/16/26 07:43	1
2-Chlorophenol	0.33	U	0.33	0.0085	mg/Kg		04/15/26 21:44	04/16/26 07:43	1
2-Methylnaphthalene	0.33	U	0.33	0.0049	mg/Kg		04/15/26 21:44	04/16/26 07:43	1
2-Methylphenol	0.20	U	0.20	0.0096	mg/Kg		04/15/26 21:44	04/16/26 07:43	1
2-Nitroaniline	0.33	U	0.33	0.019	mg/Kg		04/15/26 21:44	04/16/26 07:43	1
2-Nitrophenol	0.33	U	0.33	0.019	mg/Kg		04/15/26 21:44	04/16/26 07:43	1
3 & 4 Methylphenol	0.20	U	0.20	0.021	mg/Kg		04/15/26 21:44	04/16/26 07:43	1
3,3'-Dichlorobenzidine	0.13	U	0.13	0.013	mg/Kg		04/15/26 21:44	04/16/26 07:43	1
3-Nitroaniline	0.33	U	0.33	0.023	mg/Kg		04/15/26 21:44	04/16/26 07:43	1
4,6-Dinitro-2-methylphenol	0.27	U	0.27	0.022	mg/Kg		04/15/26 21:44	04/16/26 07:43	1
4-Bromophenyl phenyl ether	0.33	U	0.33	0.0061	mg/Kg		04/15/26 21:44	04/16/26 07:43	1
4-Chloro-3-methylphenol	0.33	U	0.33	0.015	mg/Kg		04/15/26 21:44	04/16/26 07:43	1
4-Chloroaniline	0.33	U	0.33	0.015	mg/Kg		04/15/26 21:44	04/16/26 07:43	1
4-Chlorophenyl phenyl ether	0.33	U	0.33	0.0088	mg/Kg		04/15/26 21:44	04/16/26 07:43	1
4-Methylphenol	0.33	U	0.33	0.017	mg/Kg		04/15/26 21:44	04/16/26 07:43	1
4-Nitroaniline	0.33	U	0.33	0.021	mg/Kg		04/15/26 21:44	04/16/26 07:43	1
4-Nitrophenol	0.67	U	0.67	0.042	mg/Kg		04/15/26 21:44	04/16/26 07:43	1
Acenaphthene	0.33	U	0.33	0.0048	mg/Kg		04/15/26 21:44	04/16/26 07:43	1
Acenaphthylene	0.33	U	0.33	0.0041	mg/Kg		04/15/26 21:44	04/16/26 07:43	1
Acetophenone	0.33	U	0.33	0.014	mg/Kg		04/15/26 21:44	04/16/26 07:43	1
Anthracene	0.33	U	0.33	0.0032	mg/Kg		04/15/26 21:44	04/16/26 07:43	1
Atrazine	0.13	U	0.13	0.0087	mg/Kg		04/15/26 21:44	04/16/26 07:43	1
Benzaldehyde	0.33	U	0.33	0.014	mg/Kg		04/15/26 21:44	04/16/26 07:43	1
Benzo[a]anthracene	0.033	U	0.033	0.0031	mg/Kg		04/15/26 21:44	04/16/26 07:43	1
Benzo[a]pyrene	0.033	U	0.033	0.0060	mg/Kg		04/15/26 21:44	04/16/26 07:43	1
Benzo[b]fluoranthene	0.033	U	0.033	0.0049	mg/Kg		04/15/26 21:44	04/16/26 07:43	1
Benzo[g,h,i]perylene	0.33	U	0.33	0.0055	mg/Kg		04/15/26 21:44	04/16/26 07:43	1
Benzo[k]fluoranthene	0.033	U	0.033	0.0050	mg/Kg		04/15/26 21:44	04/16/26 07:43	1
Bis(2-chloroethoxy)methane	0.33	U	0.33	0.015	mg/Kg		04/15/26 21:44	04/16/26 07:43	1
Bis(2-chloroethyl)ether	0.033	U	0.033	0.015	mg/Kg		04/15/26 21:44	04/16/26 07:43	1
Bis(2-ethylhexyl) phthalate	0.33	U	0.33	0.011	mg/Kg		04/15/26 21:44	04/16/26 07:43	1
Butyl benzyl phthalate	0.33	U	0.33	0.011	mg/Kg		04/15/26 21:44	04/16/26 07:43	1
Caprolactam	0.33	U	0.33	0.021	mg/Kg		04/15/26 21:44	04/16/26 07:43	1
Carbazole	0.33	U	0.33	0.0092	mg/Kg		04/15/26 21:44	04/16/26 07:43	1
Chrysene	0.33	U	0.33	0.0036	mg/Kg		04/15/26 21:44	04/16/26 07:43	1
Dibenz(a,h)anthracene	0.033	U	0.033	0.0069	mg/Kg		04/15/26 21:44	04/16/26 07:43	1
Dibenzofuran	0.33	U	0.33	0.0052	mg/Kg		04/15/26 21:44	04/16/26 07:43	1
Diethyl phthalate	0.33	U	0.33	0.0056	mg/Kg		04/15/26 21:44	04/16/26 07:43	1
Dimethyl phthalate	0.33	U	0.33	0.0039	mg/Kg		04/15/26 21:44	04/16/26 07:43	1
Di-n-butyl phthalate	0.33	U	0.33	0.0082	mg/Kg		04/15/26 21:44	04/16/26 07:43	1

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QC Sample Results

Client: Haley & Aldrich Inc
Project/Site: Former Port Mobil

Job ID: 460-348810-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 460-1101641/1-A

Matrix: Solid

Analysis Batch: 1101665

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 1101641

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate	0.33	U	0.33	0.014	mg/Kg		04/15/26 21:44	04/16/26 07:43	1
Fluoranthene	0.33	U	0.33	0.0059	mg/Kg		04/15/26 21:44	04/16/26 07:43	1
Fluorene	0.33	U	0.33	0.0061	mg/Kg		04/15/26 21:44	04/16/26 07:43	1
Hexachlorobenzene	0.033	U	0.033	0.0061	mg/Kg		04/15/26 21:44	04/16/26 07:43	1
Hexachlorobutadiene	0.067	U	0.067	0.0063	mg/Kg		04/15/26 21:44	04/16/26 07:43	1
Hexachlorocyclopentadiene	0.33	U	0.33	0.018	mg/Kg		04/15/26 21:44	04/16/26 07:43	1
Hexachloroethane	0.033	U	0.033	0.0086	mg/Kg		04/15/26 21:44	04/16/26 07:43	1
Indeno[1,2,3-cd]pyrene	0.033	U	0.033	0.022	mg/Kg		04/15/26 21:44	04/16/26 07:43	1
Isophorone	0.13	U	0.13	0.0077	mg/Kg		04/15/26 21:44	04/16/26 07:43	1
Naphthalene	0.33	U	0.33	0.0026	mg/Kg		04/15/26 21:44	04/16/26 07:43	1
Nitrobenzene	0.033	U	0.033	0.015	mg/Kg		04/15/26 21:44	04/16/26 07:43	1
N-Nitrosodi-n-propylamine	0.033	U	0.033	0.015	mg/Kg		04/15/26 21:44	04/16/26 07:43	1
N-Nitrosodiphenylamine	0.33	U	0.33	0.0058	mg/Kg		04/15/26 21:44	04/16/26 07:43	1
Pentachlorophenol	0.27	U	0.27	0.022	mg/Kg		04/15/26 21:44	04/16/26 07:43	1
Phenanthrene	0.33	U	0.33	0.0056	mg/Kg		04/15/26 21:44	04/16/26 07:43	1
Phenol	0.20	U	0.20	0.019	mg/Kg		04/15/26 21:44	04/16/26 07:43	1
Pyrene	0.33	U	0.33	0.0054	mg/Kg		04/15/26 21:44	04/16/26 07:43	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	65		18 - 137	04/15/26 21:44	04/16/26 07:43	1
2-Fluorobiphenyl	67		33 - 117	04/15/26 21:44	04/16/26 07:43	1
2-Fluorophenol (Surr)	70		24 - 120	04/15/26 21:44	04/16/26 07:43	1
Nitrobenzene-d5 (Surr)	69		27 - 120	04/15/26 21:44	04/16/26 07:43	1
Phenol-d5 (Surr)	69		28 - 118	04/15/26 21:44	04/16/26 07:43	1
Terphenyl-d14 (Surr)	65		33 - 124	04/15/26 21:44	04/16/26 07:43	1

Lab Sample ID: LCS 460-1101641/2-A

Matrix: Solid

Analysis Batch: 1101665

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 1101641

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1'-Biphenyl	3.33	2.54		mg/Kg		76	64 - 120
1,2,4,5-Tetrachlorobenzene	3.33	2.50		mg/Kg		75	60 - 120
1,4-Dioxane	3.33	2.15		mg/Kg		64	31 - 105
2,2'-oxybis[1-chloropropane]	3.33	2.53		mg/Kg		76	50 - 126
2,3,4,6-Tetrachlorophenol	3.33	2.68		mg/Kg		80	62 - 120
2,4,5-Trichlorophenol	3.33	2.64		mg/Kg		79	64 - 120
2,4,6-Trichlorophenol	3.33	2.66		mg/Kg		80	65 - 120
2,4-Dichlorophenol	3.33	2.83		mg/Kg		85	66 - 120
2,4-Dimethylphenol	3.33	2.79		mg/Kg		84	75 - 136
2,4-Dinitrophenol	6.67	5.60		mg/Kg		84	41 - 120
2,4-Dinitrotoluene	3.33	2.80		mg/Kg		84	65 - 124
2,6-Dinitrotoluene	3.33	2.82		mg/Kg		85	67 - 121
2-Chloronaphthalene	3.33	2.56		mg/Kg		77	64 - 120
2-Chlorophenol	3.33	2.72		mg/Kg		82	63 - 120
2-Methylnaphthalene	3.33	2.72		mg/Kg		82	56 - 102
2-Methylphenol	3.33	2.79		mg/Kg		84	63 - 120
2-Nitroaniline	3.33	2.64		mg/Kg		79	52 - 120

Eurofins Edison

QC Sample Results

Client: Haley & Aldrich Inc
Project/Site: Former Port Mobil

Job ID: 460-348810-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 460-1101641/2-A

Matrix: Solid

Analysis Batch: 1101665

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 1101641

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Nitrophenol	3.33	2.72		mg/Kg		82	64 - 120
3 & 4 Methylphenol	3.33	2.80		mg/Kg		84	61 - 120
3,3'-Dichlorobenzidine	3.33	2.38		mg/Kg		71	10 - 106
3-Nitroaniline	3.33	2.43		mg/Kg		73	18 - 105
4,6-Dinitro-2-methylphenol	6.67	5.92		mg/Kg		89	61 - 127
4-Bromophenyl phenyl ether	3.33	2.72		mg/Kg		82	64 - 120
4-Chloro-3-methylphenol	3.33	2.85		mg/Kg		86	68 - 120
4-Chloroaniline	3.33	2.31		mg/Kg		69	10 - 107
4-Chlorophenyl phenyl ether	3.33	2.60		mg/Kg		78	62 - 120
4-Methylphenol	3.33	2.80		mg/Kg		84	61 - 120
4-Nitroaniline	3.33	2.67		mg/Kg		80	51 - 112
4-Nitrophenol	6.67	5.91		mg/Kg		89	52 - 122
Acenaphthene	3.33	2.56		mg/Kg		77	65 - 120
Acenaphthylene	3.33	2.66		mg/Kg		80	68 - 120
Acetophenone	3.33	2.71		mg/Kg		81	61 - 111
Anthracene	3.33	2.68		mg/Kg		80	67 - 120
Atrazine	1.33	1.35		mg/Kg		101	52 - 150
Benzaldehyde	1.33	1.27		mg/Kg		95	45 - 150
Benzo[a]anthracene	3.33	2.74		mg/Kg		82	66 - 120
Benzo[a]pyrene	3.33	2.79		mg/Kg		84	69 - 123
Benzo[b]fluoranthene	3.33	2.67		mg/Kg		80	66 - 125
Benzo[g,h,i]perylene	3.33	2.84		mg/Kg		85	66 - 138
Benzo[k]fluoranthene	3.33	2.80		mg/Kg		84	67 - 122
Bis(2-chloroethoxy)methane	3.33	2.66		mg/Kg		80	62 - 120
Bis(2-chloroethyl)ether	3.33	2.62		mg/Kg		79	60 - 120
Bis(2-ethylhexyl) phthalate	3.33	2.78		mg/Kg		83	64 - 125
Butyl benzyl phthalate	3.33	2.92		mg/Kg		88	62 - 127
Caprolactam	1.33	1.48		mg/Kg		111	46 - 150
Carbazole	3.33	2.74		mg/Kg		82	64 - 120
Chrysene	3.33	2.69		mg/Kg		81	67 - 120
Dibenz(a,h)anthracene	3.33	2.97		mg/Kg		89	66 - 128
Dibenzofuran	3.33	2.61		mg/Kg		78	61 - 120
Diethyl phthalate	3.33	2.67		mg/Kg		80	63 - 120
Dimethyl phthalate	3.33	2.71		mg/Kg		81	65 - 120
Di-n-butyl phthalate	3.33	2.95		mg/Kg		89	61 - 120
Di-n-octyl phthalate	3.33	2.82		mg/Kg		85	61 - 123
Fluoranthene	3.33	2.73		mg/Kg		82	61 - 120
Fluorene	3.33	2.60		mg/Kg		78	64 - 120
Hexachlorobenzene	3.33	2.67		mg/Kg		80	66 - 120
Hexachlorobutadiene	3.33	2.55		mg/Kg		77	62 - 120
Hexachlorocyclopentadiene	3.33	2.03		mg/Kg		61	32 - 150
Hexachloroethane	3.33	2.59		mg/Kg		78	61 - 112
Indeno[1,2,3-cd]pyrene	3.33	2.68		mg/Kg		80	63 - 137
Isophorone	3.33	2.70		mg/Kg		81	61 - 120
Naphthalene	3.33	2.61		mg/Kg		78	63 - 113
Nitrobenzene	3.33	2.69		mg/Kg		81	63 - 120
N-Nitrosodi-n-propylamine	3.33	2.80		mg/Kg		84	60 - 120
N-Nitrosodiphenylamine	3.33	2.72		mg/Kg		82	63 - 120
Pentachlorophenol	6.67	5.83		mg/Kg		87	61 - 126

Eurofins Edison

QC Sample Results

Client: Haley & Aldrich Inc
Project/Site: Former Port Mobil

Job ID: 460-348810-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 460-1101641/2-A

Matrix: Solid

Analysis Batch: 1101665

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 1101641

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phenanthrene	3.33	2.70		mg/Kg		81	66 - 120
Phenol	3.33	2.74		mg/Kg		82	63 - 120
Pyrene	3.33	2.71		mg/Kg		81	61 - 121

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	69		18 - 137
2-Fluorobiphenyl	67		33 - 117
2-Fluorophenol (Surr)	70		24 - 120
Nitrobenzene-d5 (Surr)	69		27 - 120
Phenol-d5 (Surr)	70		28 - 118
Terphenyl-d14 (Surr)	64		33 - 124

Lab Sample ID: LCSD 460-1101641/3-A

Matrix: Solid

Analysis Batch: 1101665

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 1101641

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1'-Biphenyl	3.33	2.57		mg/Kg		77	64 - 120	1	30
1,2,4,5-Tetrachlorobenzene	3.33	2.51		mg/Kg		75	60 - 120	0	30
1,4-Dioxane	3.33	2.23		mg/Kg		67	31 - 105	3	30
2,2'-oxybis[1-chloropropane]	3.33	2.49		mg/Kg		75	50 - 126	2	30
2,3,4,6-Tetrachlorophenol	3.33	2.61		mg/Kg		78	62 - 120	2	30
2,4,5-Trichlorophenol	3.33	2.62		mg/Kg		79	64 - 120	1	30
2,4,6-Trichlorophenol	3.33	2.66		mg/Kg		80	65 - 120	0	30
2,4-Dichlorophenol	3.33	2.76		mg/Kg		83	66 - 120	3	30
2,4-Dimethylphenol	3.33	2.74		mg/Kg		82	75 - 136	1	30
2,4-Dinitrophenol	6.67	5.45		mg/Kg		82	41 - 120	3	30
2,4-Dinitrotoluene	3.33	2.74		mg/Kg		82	65 - 124	2	30
2,6-Dinitrotoluene	3.33	2.76		mg/Kg		83	67 - 121	2	30
2-Chloronaphthalene	3.33	2.51		mg/Kg		75	64 - 120	2	30
2-Chlorophenol	3.33	2.63		mg/Kg		79	63 - 120	3	30
2-Methylnaphthalene	3.33	2.68		mg/Kg		80	56 - 102	1	30
2-Methylphenol	3.33	2.71		mg/Kg		81	63 - 120	3	30
2-Nitroaniline	3.33	2.58		mg/Kg		77	52 - 120	2	30
2-Nitrophenol	3.33	2.68		mg/Kg		81	64 - 120	1	30
3 & 4 Methylphenol	3.33	2.70		mg/Kg		81	61 - 120	3	30
3,3'-Dichlorobenzidine	3.33	2.33		mg/Kg		70	10 - 106	2	30
3-Nitroaniline	3.33	2.34		mg/Kg		70	18 - 105	4	30
4,6-Dinitro-2-methylphenol	6.67	5.76		mg/Kg		86	61 - 127	3	30
4-Bromophenyl phenyl ether	3.33	2.67		mg/Kg		80	64 - 120	2	30
4-Chloro-3-methylphenol	3.33	2.76		mg/Kg		83	68 - 120	3	30
4-Chloroaniline	3.33	2.20		mg/Kg		66	10 - 107	5	30
4-Chlorophenyl phenyl ether	3.33	2.56		mg/Kg		77	62 - 120	2	30
4-Methylphenol	3.33	2.70		mg/Kg		81	61 - 120	3	30
4-Nitroaniline	3.33	2.67		mg/Kg		80	51 - 112	0	30
4-Nitrophenol	6.67	5.85		mg/Kg		88	52 - 122	1	30
Acenaphthene	3.33	2.56		mg/Kg		77	65 - 120	0	30
Acenaphthylene	3.33	2.62		mg/Kg		79	68 - 120	2	30

Eurofins Edison

QC Sample Results

Client: Haley & Aldrich Inc
Project/Site: Former Port Mobil

Job ID: 460-348810-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 460-1101641/3-A

Matrix: Solid

Analysis Batch: 1101665

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 1101641

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetophenone	3.33	2.60		mg/Kg		78	61 - 111	4	30
Anthracene	3.33	2.65		mg/Kg		80	67 - 120	1	30
Atrazine	1.33	1.18		mg/Kg		88	52 - 150	13	30
Benzaldehyde	1.33	1.04		mg/Kg		78	45 - 150	20	30
Benzo[a]anthracene	3.33	2.66		mg/Kg		80	66 - 120	3	30
Benzo[a]pyrene	3.33	2.70		mg/Kg		81	69 - 123	3	30
Benzo[b]fluoranthene	3.33	2.81		mg/Kg		84	66 - 125	5	30
Benzo[g,h,i]perylene	3.33	2.78		mg/Kg		83	66 - 138	2	30
Benzo[k]fluoranthene	3.33	2.56		mg/Kg		77	67 - 122	9	30
Bis(2-chloroethoxy)methane	3.33	2.68		mg/Kg		81	62 - 120	1	30
Bis(2-chloroethyl)ether	3.33	2.61		mg/Kg		78	60 - 120	0	30
Bis(2-ethylhexyl) phthalate	3.33	2.72		mg/Kg		82	64 - 125	2	30
Butyl benzyl phthalate	3.33	2.87		mg/Kg		86	62 - 127	2	30
Caprolactam	1.33	1.21		mg/Kg		91	46 - 150	20	30
Carbazole	3.33	2.69		mg/Kg		81	64 - 120	2	30
Chrysene	3.33	2.66		mg/Kg		80	67 - 120	1	30
Dibenz(a,h)anthracene	3.33	2.88		mg/Kg		86	66 - 128	3	30
Dibenzofuran	3.33	2.59		mg/Kg		78	61 - 120	1	30
Diethyl phthalate	3.33	2.64		mg/Kg		79	63 - 120	1	30
Dimethyl phthalate	3.33	2.66		mg/Kg		80	65 - 120	2	30
Di-n-butyl phthalate	3.33	2.94		mg/Kg		88	61 - 120	0	30
Di-n-octyl phthalate	3.33	2.77		mg/Kg		83	61 - 123	2	30
Fluoranthene	3.33	2.64		mg/Kg		79	61 - 120	3	30
Fluorene	3.33	2.58		mg/Kg		78	64 - 120	1	30
Hexachlorobenzene	3.33	2.65		mg/Kg		80	66 - 120	1	30
Hexachlorobutadiene	3.33	2.58		mg/Kg		77	62 - 120	1	30
Hexachlorocyclopentadiene	3.33	2.10		mg/Kg		63	32 - 150	4	30
Hexachloroethane	3.33	2.59		mg/Kg		78	61 - 112	0	30
Indeno[1,2,3-cd]pyrene	3.33	2.47		mg/Kg		74	63 - 137	8	30
Isophorone	3.33	2.68		mg/Kg		80	61 - 120	1	30
Naphthalene	3.33	2.63		mg/Kg		79	63 - 113	0	30
Nitrobenzene	3.33	2.65		mg/Kg		80	63 - 120	1	30
N-Nitrosodi-n-propylamine	3.33	2.68		mg/Kg		81	60 - 120	4	30
N-Nitrosodiphenylamine	3.33	2.66		mg/Kg		80	63 - 120	2	30
Pentachlorophenol	6.67	5.16		mg/Kg		77	61 - 126	12	30
Phenanthrene	3.33	2.66		mg/Kg		80	66 - 120	2	30
Phenol	3.33	2.64		mg/Kg		79	63 - 120	4	30
Pyrene	3.33	2.67		mg/Kg		80	61 - 121	2	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	69		18 - 137
2-Fluorobiphenyl	68		33 - 117
2-Fluorophenol (Surr)	70		24 - 120
Nitrobenzene-d5 (Surr)	69		27 - 120
Phenol-d5 (Surr)	69		28 - 118
Terphenyl-d14 (Surr)	64		33 - 124

QC Sample Results

Client: Haley & Aldrich Inc
Project/Site: Former Port Mobil

Job ID: 460-348810-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 460-348803-E-6-A MS

Matrix: Solid

Analysis Batch: 1101665

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 1101641

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier	Added	Result	Qualifier				
1,1'-Biphenyl	0.38	U	3.82	2.77		mg/Kg	✱	72	64 - 120
1,2,4,5-Tetrachlorobenzene	0.38	U	3.82	2.73		mg/Kg	✱	71	60 - 120
1,4-Dioxane	0.038	U	3.82	2.23		mg/Kg	✱	58	31 - 105
2,2'-oxybis[1-chloropropane]	0.38	U	3.82	2.73		mg/Kg	✱	71	50 - 126
2,3,4,6-Tetrachlorophenol	0.38	U	3.82	2.81		mg/Kg	✱	73	62 - 120
2,4,5-Trichlorophenol	0.38	U	3.82	2.72		mg/Kg	✱	71	64 - 120
2,4,6-Trichlorophenol	0.15	U	3.82	2.86		mg/Kg	✱	75	65 - 120
2,4-Dichlorophenol	0.15	U	3.82	2.97		mg/Kg	✱	78	66 - 120
2,4-Dimethylphenol	0.38	U	3.82	2.92		mg/Kg	✱	76	75 - 136
2,4-Dinitrophenol	0.31	U	7.65	5.02		mg/Kg	✱	66	41 - 120
2,4-Dinitrotoluene	0.077	U	3.82	2.89		mg/Kg	✱	75	65 - 124
2,6-Dinitrotoluene	0.077	U	3.82	2.95		mg/Kg	✱	77	67 - 121
2-Chloronaphthalene	0.38	U	3.82	2.74		mg/Kg	✱	72	64 - 120
2-Chlorophenol	0.38	U	3.82	2.90		mg/Kg	✱	76	63 - 120
2-Methylnaphthalene	0.38	U	3.82	2.94		mg/Kg	✱	77	56 - 102
2-Methylphenol	0.23	U	3.82	2.95		mg/Kg	✱	77	63 - 120
2-Nitroaniline	0.38	U	3.82	2.85		mg/Kg	✱	75	52 - 120
2-Nitrophenol	0.38	U	3.82	2.82		mg/Kg	✱	74	64 - 120
3 & 4 Methylphenol	0.23	U	3.82	2.97		mg/Kg	✱	78	61 - 120
3,3'-Dichlorobenzidine	0.15	U	3.82	2.34		mg/Kg	✱	61	10 - 106
3-Nitroaniline	0.38	U	3.82	2.51		mg/Kg	✱	66	18 - 105
4,6-Dinitro-2-methylphenol	0.31	U	7.65	5.73		mg/Kg	✱	75	61 - 127
4-Bromophenyl phenyl ether	0.38	U	3.82	2.81		mg/Kg	✱	73	64 - 120
4-Chloro-3-methylphenol	0.38	U	3.82	2.92		mg/Kg	✱	76	68 - 120
4-Chloroaniline	0.38	U	3.82	2.32		mg/Kg	✱	61	10 - 107
4-Chlorophenyl phenyl ether	0.38	U	3.82	2.71		mg/Kg	✱	71	62 - 120
4-Methylphenol	0.38	U	3.82	2.97		mg/Kg	✱	78	61 - 120
4-Nitroaniline	0.38	U	3.82	2.74		mg/Kg	✱	72	51 - 112
4-Nitrophenol	0.77	U	7.65	6.02		mg/Kg	✱	79	52 - 122
Acenaphthene	0.012	J	3.82	2.76		mg/Kg	✱	72	65 - 120
Acenaphthylene	0.012	J	3.82	2.82		mg/Kg	✱	73	68 - 120
Acetophenone	0.38	U	3.82	2.87		mg/Kg	✱	75	61 - 111
Anthracene	0.048	J	3.82	2.87		mg/Kg	✱	74	67 - 120
Atrazine	0.15	U	1.53	1.57		mg/Kg	✱	103	52 - 150
Benzaldehyde	0.38	U	1.53	1.59	E	mg/Kg	✱	104	45 - 150
Benzo[a]anthracene	0.23		3.82	3.10		mg/Kg	✱	75	66 - 120
Benzo[a]pyrene	0.18		3.82	3.13		mg/Kg	✱	77	69 - 123
Benzo[b]fluoranthene	0.26		3.82	3.19		mg/Kg	✱	77	66 - 125
Benzo[g,h,i]perylene	0.12	J	3.82	3.21		mg/Kg	✱	81	66 - 138
Benzo[k]fluoranthene	0.10		3.82	2.90		mg/Kg	✱	73	67 - 122
Bis(2-chloroethoxy)methane	0.38	U	3.82	2.83		mg/Kg	✱	74	62 - 120
Bis(2-chloroethyl)ether	0.038	U	3.82	2.86		mg/Kg	✱	75	60 - 120
Bis(2-ethylhexyl) phthalate	0.38	U	3.82	2.98		mg/Kg	✱	78	64 - 125
Butyl benzyl phthalate	0.38	U	3.82	3.11		mg/Kg	✱	81	62 - 127
Caprolactam	0.38	U	1.53	1.54		mg/Kg	✱	100	46 - 150
Carbazole	0.38	U	3.82	2.88		mg/Kg	✱	75	64 - 120
Chrysene	0.20	J	3.82	3.03		mg/Kg	✱	74	67 - 120
Dibenz(a,h)anthracene	0.024	J	3.82	3.18		mg/Kg	✱	83	66 - 128

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QC Sample Results

Client: Haley & Aldrich Inc
Project/Site: Former Port Mobil

Job ID: 460-348810-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 460-348803-E-6-A MS

Matrix: Solid

Analysis Batch: 1101665

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 1101641

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	
	Result	Qualifier	Added	Result	Qualifier				Limits	
Dibenzofuran	0.011	J	3.82	2.79		mg/Kg	✱	73	61 - 120	
Diethyl phthalate	0.38	U	3.82	2.79		mg/Kg	✱	73	63 - 120	
Dimethyl phthalate	0.38	U	3.82	2.80		mg/Kg	✱	73	65 - 120	
Di-n-butyl phthalate	0.38	U	3.82	3.13		mg/Kg	✱	82	61 - 120	
Di-n-octyl phthalate	0.38	U	3.82	3.02		mg/Kg	✱	79	61 - 123	
Fluoranthene	0.42		3.82	3.25		mg/Kg	✱	74	61 - 120	
Fluorene	0.017	J	3.82	2.79		mg/Kg	✱	72	64 - 120	
Hexachlorobenzene	0.038	U	3.82	2.82		mg/Kg	✱	74	66 - 120	
Hexachlorobutadiene	0.077	U	3.82	2.79		mg/Kg	✱	73	62 - 120	
Hexachlorocyclopentadiene	0.38	U	3.82	2.67		mg/Kg	✱	70	32 - 150	
Hexachloroethane	0.038	U	3.82	2.86		mg/Kg	✱	75	61 - 112	
Indeno[1,2,3-cd]pyrene	0.12		3.82	2.94		mg/Kg	✱	74	63 - 137	
Isophorone	0.15	U	3.82	2.87		mg/Kg	✱	75	61 - 120	
Naphthalene	0.38	U	3.82	2.86		mg/Kg	✱	75	63 - 113	
Nitrobenzene	0.038	U	3.82	2.84		mg/Kg	✱	74	63 - 120	
N-Nitrosodi-n-propylamine	0.038	U	3.82	2.94		mg/Kg	✱	77	60 - 120	
N-Nitrosodiphenylamine	0.38	U	3.82	2.85		mg/Kg	✱	74	63 - 120	
Pentachlorophenol	0.31	U	7.65	5.92		mg/Kg	✱	77	61 - 126	
Phenanthrene	0.20	J	3.82	3.04		mg/Kg	✱	74	66 - 120	
Phenol	0.23	U	3.82	2.95		mg/Kg	✱	77	63 - 120	
Pyrene	0.37	J	3.82	3.25		mg/Kg	✱	76	61 - 121	

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	63		18 - 137
2-Fluorobiphenyl	62		33 - 117
2-Fluorophenol (Surr)	65		24 - 120
Nitrobenzene-d5 (Surr)	64		27 - 120
Phenol-d5 (Surr)	65		28 - 118
Terphenyl-d14 (Surr)	61		33 - 124

Lab Sample ID: 460-348803-E-6-B MSD

Matrix: Solid

Analysis Batch: 1101665

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 1101641

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec		RPD	
	Result	Qualifier	Added	Result	Qualifier				Limits		RPD	Limit
1,1'-Biphenyl	0.38	U	3.84	2.74		mg/Kg	✱	71	64 - 120		1	30
1,2,4,5-Tetrachlorobenzene	0.38	U	3.84	2.65		mg/Kg	✱	69	60 - 120		3	30
1,4-Dioxane	0.038	U	3.84	1.76		mg/Kg	✱	46	31 - 105		24	30
2,2'-oxybis[1-chloropropane]	0.38	U	3.84	2.46		mg/Kg	✱	64	50 - 126		11	30
2,3,4,6-Tetrachlorophenol	0.38	U	3.84	2.92		mg/Kg	✱	76	62 - 120		4	30
2,4,5-Trichlorophenol	0.38	U	3.84	2.84		mg/Kg	✱	74	64 - 120		4	30
2,4,6-Trichlorophenol	0.15	U	3.84	2.87		mg/Kg	✱	75	65 - 120		0	30
2,4-Dichlorophenol	0.15	U	3.84	2.88		mg/Kg	✱	75	66 - 120		3	30
2,4-Dimethylphenol	0.38	U	3.84	2.89		mg/Kg	✱	75	75 - 136		1	30
2,4-Dinitrophenol	0.31	U	7.68	5.25		mg/Kg	✱	68	41 - 120		5	30
2,4-Dinitrotoluene	0.077	U	3.84	2.95		mg/Kg	✱	77	65 - 124		2	30
2,6-Dinitrotoluene	0.077	U	3.84	3.07		mg/Kg	✱	80	67 - 121		4	30
2-Chloronaphthalene	0.38	U	3.84	2.71		mg/Kg	✱	71	64 - 120		1	30

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QC Sample Results

Client: Haley & Aldrich Inc
Project/Site: Former Port Mobil

Job ID: 460-348810-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 460-348803-E-6-B MSD

Matrix: Solid

Analysis Batch: 1101665

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 1101641

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
2-Chlorophenol	0.38	U	3.84	2.61		mg/Kg	✱	68	63 - 120	11	30
2-Methylnaphthalene	0.38	U	3.84	2.81		mg/Kg	✱	73	56 - 102	5	30
2-Methylphenol	0.23	U	3.84	2.76		mg/Kg	✱	72	63 - 120	7	30
2-Nitroaniline	0.38	U	3.84	2.84		mg/Kg	✱	74	52 - 120	0	30
2-Nitrophenol	0.38	U	3.84	2.66		mg/Kg	✱	69	64 - 120	6	30
3 & 4 Methylphenol	0.23	U	3.84	2.83		mg/Kg	✱	74	61 - 120	5	30
3,3'-Dichlorobenzidine	0.15	U	3.84	2.33		mg/Kg	✱	61	10 - 106	1	30
3-Nitroaniline	0.38	U	3.84	2.49		mg/Kg	✱	65	18 - 105	1	30
4,6-Dinitro-2-methylphenol	0.31	U	7.68	6.02		mg/Kg	✱	78	61 - 127	5	30
4-Bromophenyl phenyl ether	0.38	U	3.84	2.92		mg/Kg	✱	76	64 - 120	4	30
4-Chloro-3-methylphenol	0.38	U	3.84	2.99		mg/Kg	✱	78	68 - 120	3	30
4-Chloroaniline	0.38	U	3.84	2.16		mg/Kg	✱	56	10 - 107	7	30
4-Chlorophenyl phenyl ether	0.38	U	3.84	2.77		mg/Kg	✱	72	62 - 120	2	30
4-Methylphenol	0.38	U	3.84	2.83		mg/Kg	✱	74	61 - 120	5	30
4-Nitroaniline	0.38	U	3.84	2.76		mg/Kg	✱	72	51 - 112	1	30
4-Nitrophenol	0.77	U	7.68	6.35		mg/Kg	✱	83	52 - 122	5	30
Acenaphthene	0.012	J	3.84	2.99		mg/Kg	✱	78	65 - 120	8	30
Acenaphthylene	0.012	J	3.84	2.87		mg/Kg	✱	74	68 - 120	2	30
Acetophenone	0.38	U	3.84	2.62		mg/Kg	✱	68	61 - 111	9	30
Anthracene	0.048	J	3.84	3.41		mg/Kg	✱	87	67 - 120	17	30
Atrazine	0.15	U	1.54	1.43		mg/Kg	✱	93	52 - 150	10	30
Benzaldehyde	0.38	U	1.54	1.16	*	mg/Kg	✱	75	45 - 150	31	30
Benzo[a]anthracene	0.23		3.84	4.31	*	mg/Kg	✱	106	66 - 120	33	30
Benzo[a]pyrene	0.18		3.84	4.10		mg/Kg	✱	102	69 - 123	27	30
Benzo[b]fluoranthene	0.26		3.84	4.27		mg/Kg	✱	105	66 - 125	29	30
Benzo[g,h,i]perylene	0.12	J	3.84	3.77		mg/Kg	✱	95	66 - 138	16	30
Benzo[k]fluoranthene	0.10		3.84	3.60		mg/Kg	✱	91	67 - 122	21	30
Bis(2-chloroethoxy)methane	0.38	U	3.84	2.70		mg/Kg	✱	70	62 - 120	5	30
Bis(2-chloroethyl)ether	0.038	U	3.84	2.44		mg/Kg	✱	63	60 - 120	16	30
Bis(2-ethylhexyl) phthalate	0.38	U	3.84	3.05		mg/Kg	✱	80	64 - 125	3	30
Butyl benzyl phthalate	0.38	U	3.84	3.22		mg/Kg	✱	84	62 - 127	4	30
Caprolactam	0.38	U	1.54	1.32		mg/Kg	✱	86	46 - 150	15	30
Carbazole	0.38	U	3.84	3.23		mg/Kg	✱	84	64 - 120	12	30
Chrysene	0.20	J	3.84	4.06		mg/Kg	✱	100	67 - 120	29	30
Dibenz(a,h)anthracene	0.024	J	3.84	3.41		mg/Kg	✱	88	66 - 128	7	30
Dibenzofuran	0.011	J	3.84	2.93		mg/Kg	✱	76	61 - 120	5	30
Diethyl phthalate	0.38	U	3.84	2.88		mg/Kg	✱	75	63 - 120	3	30
Dimethyl phthalate	0.38	U	3.84	2.90		mg/Kg	✱	76	65 - 120	3	30
Di-n-butyl phthalate	0.38	U	3.84	3.18		mg/Kg	✱	83	61 - 120	2	30
Di-n-octyl phthalate	0.38	U	3.84	3.12		mg/Kg	✱	81	61 - 123	3	30
Fluoranthene	0.42		3.84	5.51	*	mg/Kg	✱	133	61 - 120	52	30
Fluorene	0.017	J	3.84	3.01		mg/Kg	✱	78	64 - 120	8	30
Hexachlorobenzene	0.038	U	3.84	2.94		mg/Kg	✱	77	66 - 120	4	30
Hexachlorobutadiene	0.077	U	3.84	2.52		mg/Kg	✱	66	62 - 120	10	30
Hexachlorocyclopentadiene	0.38	U	3.84	2.38		mg/Kg	✱	62	32 - 150	12	30
Hexachloroethane	0.038	U	3.84	2.39		mg/Kg	✱	62	61 - 112	18	30
Indeno[1,2,3-cd]pyrene	0.12		3.84	3.62		mg/Kg	✱	91	63 - 137	21	30
Isophorone	0.15	U	3.84	2.76		mg/Kg	✱	72	61 - 120	4	30
Naphthalene	0.38	U	3.84	2.63		mg/Kg	✱	68	63 - 113	8	30

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QC Sample Results

Client: Haley & Aldrich Inc
Project/Site: Former Port Mobil

Job ID: 460-348810-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 460-348803-E-6-B MSD

Matrix: Solid

Analysis Batch: 1101665

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 1101641

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrobenzene	0.038	U	3.84	2.52		mg/Kg	☼	66	63 - 120	12	30
N-Nitrosodi-n-propylamine	0.038	U	3.84	2.74		mg/Kg	☼	71	60 - 120	7	30
N-Nitrosodiphenylamine	0.38	U	3.84	2.89		mg/Kg	☼	75	63 - 120	1	30
Pentachlorophenol	0.31	U	7.68	6.07		mg/Kg	☼	79	61 - 126	3	30
Phenanthrene	0.20	J	3.84	5.10	*	mg/Kg	☼	128	66 - 120	51	30
Phenol	0.23	U	3.84	2.72		mg/Kg	☼	71	63 - 120	8	30
Pyrene	0.37	J	3.84	5.15	*	mg/Kg	☼	125	61 - 121	45	30

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
2,4,6-Tribromophenol (Surr)	64		18 - 137
2-Fluorobiphenyl	61		33 - 117
2-Fluorophenol (Surr)	56		24 - 120
Nitrobenzene-d5 (Surr)	59		27 - 120
Phenol-d5 (Surr)	59		28 - 118
Terphenyl-d14 (Surr)	60		33 - 124

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 460-1101787/1-A

Matrix: Solid

Analysis Batch: 1101966

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 1101787

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0020	U	0.0020	0.00081	mg/Kg		04/16/26 10:13	04/17/26 06:58	1
4,4'-DDD	0.0020	U	0.0020	0.00081	mg/Kg		04/16/26 10:13	04/17/26 06:58	1
4,4'-DDE	0.0020	U	0.0020	0.00052	mg/Kg		04/16/26 10:13	04/17/26 06:58	1
4,4'-DDE	0.0020	U	0.0020	0.00052	mg/Kg		04/16/26 10:13	04/17/26 06:58	1
4,4'-DDT	0.0020	U	0.0020	0.00068	mg/Kg		04/16/26 10:13	04/17/26 06:58	1
4,4'-DDT	0.0020	U	0.0020	0.00068	mg/Kg		04/16/26 10:13	04/17/26 06:58	1
Aldrin	0.0020	U	0.0020	0.00030	mg/Kg		04/16/26 10:13	04/17/26 06:58	1
Aldrin	0.0020	U	0.0020	0.00030	mg/Kg		04/16/26 10:13	04/17/26 06:58	1
alpha-BHC	0.0020	U	0.0020	0.00034	mg/Kg		04/16/26 10:13	04/17/26 06:58	1
alpha-BHC	0.0020	U	0.0020	0.00034	mg/Kg		04/16/26 10:13	04/17/26 06:58	1
beta-BHC	0.0020	U	0.0020	0.00040	mg/Kg		04/16/26 10:13	04/17/26 06:58	1
beta-BHC	0.0020	U	0.0020	0.00040	mg/Kg		04/16/26 10:13	04/17/26 06:58	1
Chlordane (technical)	0.067	U	0.067	0.016	mg/Kg		04/16/26 10:13	04/17/26 06:58	1
Chlordane (technical)	0.067	U	0.067	0.016	mg/Kg		04/16/26 10:13	04/17/26 06:58	1
cis-Chlordane	0.0020	U	0.0020	0.00021	mg/Kg		04/16/26 10:13	04/17/26 06:58	1
cis-Chlordane	0.0020	U	0.0020	0.00021	mg/Kg		04/16/26 10:13	04/17/26 06:58	1
delta-BHC	0.0020	U	0.0020	0.00028	mg/Kg		04/16/26 10:13	04/17/26 06:58	1
delta-BHC	0.0020	U	0.0020	0.00028	mg/Kg		04/16/26 10:13	04/17/26 06:58	1
Dieldrin	0.0020	U	0.0020	0.00057	mg/Kg		04/16/26 10:13	04/17/26 06:58	1
Dieldrin	0.0020	U	0.0020	0.00057	mg/Kg		04/16/26 10:13	04/17/26 06:58	1
Endosulfan I	0.0020	U	0.0020	0.00025	mg/Kg		04/16/26 10:13	04/17/26 06:58	1
Endosulfan I	0.0020	U	0.0020	0.00025	mg/Kg		04/16/26 10:13	04/17/26 06:58	1
Endosulfan II	0.0020	U	0.0020	0.00034	mg/Kg		04/16/26 10:13	04/17/26 06:58	1
Endosulfan II	0.0020	U	0.0020	0.00034	mg/Kg		04/16/26 10:13	04/17/26 06:58	1
Endosulfan sulfate	0.0020	U	0.0020	0.00044	mg/Kg		04/16/26 10:13	04/17/26 06:58	1
Endosulfan sulfate	0.0020	U	0.0020	0.00044	mg/Kg		04/16/26 10:13	04/17/26 06:58	1

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QC Sample Results

Client: Haley & Aldrich Inc
Project/Site: Former Port Mobil

Job ID: 460-348810-1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 460-1101787/1-A

Matrix: Solid

Analysis Batch: 1101966

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 1101787

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endrin	0.0020	U	0.0020	0.00020	mg/Kg		04/16/26 10:13	04/17/26 06:58	1
Endrin	0.0020	U	0.0020	0.00020	mg/Kg		04/16/26 10:13	04/17/26 06:58	1
Endrin aldehyde	0.0020	U	0.0020	0.00040	mg/Kg		04/16/26 10:13	04/17/26 06:58	1
Endrin aldehyde	0.0020	U	0.0020	0.00040	mg/Kg		04/16/26 10:13	04/17/26 06:58	1
Endrin ketone	0.0020	U	0.0020	0.00031	mg/Kg		04/16/26 10:13	04/17/26 06:58	1
Endrin ketone	0.0020	U	0.0020	0.00031	mg/Kg		04/16/26 10:13	04/17/26 06:58	1
gamma-BHC (Lindane)	0.0020	U	0.0020	0.00019	mg/Kg		04/16/26 10:13	04/17/26 06:58	1
gamma-BHC (Lindane)	0.0020	U	0.0020	0.00019	mg/Kg		04/16/26 10:13	04/17/26 06:58	1
Heptachlor	0.0020	U	0.0020	0.00025	mg/Kg		04/16/26 10:13	04/17/26 06:58	1
Heptachlor	0.0020	U	0.0020	0.00025	mg/Kg		04/16/26 10:13	04/17/26 06:58	1
Heptachlor epoxide	0.0020	U	0.0020	0.00038	mg/Kg		04/16/26 10:13	04/17/26 06:58	1
Heptachlor epoxide	0.0020	U	0.0020	0.00038	mg/Kg		04/16/26 10:13	04/17/26 06:58	1
Methoxychlor	0.0020	U	0.0020	0.00076	mg/Kg		04/16/26 10:13	04/17/26 06:58	1
Methoxychlor	0.0020	U	0.0020	0.00076	mg/Kg		04/16/26 10:13	04/17/26 06:58	1
Toxaphene	0.067	U	0.067	0.024	mg/Kg		04/16/26 10:13	04/17/26 06:58	1
Toxaphene	0.067	U	0.067	0.024	mg/Kg		04/16/26 10:13	04/17/26 06:58	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	99		10 - 150	04/16/26 10:13	04/17/26 06:58	1
DCB Decachlorobiphenyl	110		10 - 150	04/16/26 10:13	04/17/26 06:58	1
Tetrachloro-m-xylene	82		14 - 150	04/16/26 10:13	04/17/26 06:58	1
Tetrachloro-m-xylene	84		14 - 150	04/16/26 10:13	04/17/26 06:58	1

Lab Sample ID: LCS 460-1101787/2-A

Matrix: Solid

Analysis Batch: 1101966

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 1101787

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	0.133	0.141		mg/Kg		106	71 - 134
4,4'-DDD	0.133	0.135		mg/Kg		101	71 - 134
4,4'-DDE	0.133	0.147		mg/Kg		110	71 - 137
4,4'-DDE	0.133	0.136		mg/Kg		102	71 - 137
4,4'-DDT	0.133	0.154		mg/Kg		115	69 - 140
4,4'-DDT	0.133	0.141		mg/Kg		105	69 - 140
Aldrin	0.133	0.139		mg/Kg		104	68 - 136
Aldrin	0.133	0.134		mg/Kg		101	68 - 136
alpha-BHC	0.133	0.142		mg/Kg		106	71 - 136
alpha-BHC	0.133	0.141		mg/Kg		105	71 - 136
beta-BHC	0.133	0.133		mg/Kg		100	67 - 133
beta-BHC	0.133	0.135		mg/Kg		101	67 - 133
cis-Chlordane	0.133	0.143		mg/Kg		107	70 - 140
cis-Chlordane	0.133	0.133		mg/Kg		100	70 - 140
delta-BHC	0.133	0.148		mg/Kg		111	70 - 135
delta-BHC	0.133	0.145		mg/Kg		109	70 - 135
Dieldrin	0.133	0.145		mg/Kg		109	71 - 135
Dieldrin	0.133	0.135		mg/Kg		101	71 - 135
Endosulfan I	0.133	0.144		mg/Kg		108	70 - 141
Endosulfan I	0.133	0.136		mg/Kg		102	70 - 141

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QC Sample Results

Client: Haley & Aldrich Inc
Project/Site: Former Port Mobil

Job ID: 460-348810-1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 460-1101787/2-A

Matrix: Solid

Analysis Batch: 1101966

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 1101787

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Endosulfan II	0.133	0.143		mg/Kg		107	75 - 141
Endosulfan II	0.133	0.138		mg/Kg		103	75 - 141
Endosulfan sulfate	0.133	0.143		mg/Kg		107	67 - 130
Endosulfan sulfate	0.133	0.139		mg/Kg		105	67 - 130
Endrin	0.133	0.148		mg/Kg		111	66 - 143
Endrin	0.133	0.134		mg/Kg		100	66 - 143
Endrin aldehyde	0.133	0.144		mg/Kg		108	70 - 132
Endrin aldehyde	0.133	0.139		mg/Kg		104	70 - 132
Endrin ketone	0.133	0.146		mg/Kg		110	66 - 137
Endrin ketone	0.133	0.144		mg/Kg		108	66 - 137
gamma-BHC (Lindane)	0.133	0.144		mg/Kg		108	71 - 137
gamma-BHC (Lindane)	0.133	0.141		mg/Kg		106	71 - 137
Heptachlor	0.133	0.139		mg/Kg		104	70 - 140
Heptachlor	0.133	0.137		mg/Kg		103	70 - 140
Heptachlor epoxide	0.133	0.141		mg/Kg		106	70 - 135
Heptachlor epoxide	0.133	0.135		mg/Kg		101	70 - 135
Methoxychlor	0.133	0.147		mg/Kg		110	63 - 138
Methoxychlor	0.133	0.140		mg/Kg		105	63 - 138

Surrogate	LCS		Limits
	%Recovery	Qualifier	
DCB Decachlorobiphenyl	95		10 - 150
DCB Decachlorobiphenyl	110		10 - 150
Tetrachloro-m-xylene	80		14 - 150
Tetrachloro-m-xylene	82		14 - 150

Lab Sample ID: LCSD 460-1101787/3-A

Matrix: Solid

Analysis Batch: 1101966

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 1101787

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	
								RPD	Limit
4,4'-DDD	0.133	0.139		mg/Kg		104	71 - 134	2	30
4,4'-DDD	0.133	0.136		mg/Kg		102	71 - 134	1	30
4,4'-DDE	0.133	0.145		mg/Kg		108	71 - 137	2	30
4,4'-DDE	0.133	0.137		mg/Kg		103	71 - 137	1	30
4,4'-DDT	0.133	0.151		mg/Kg		113	69 - 140	2	30
4,4'-DDT	0.133	0.139		mg/Kg		105	69 - 140	1	30
Aldrin	0.133	0.137		mg/Kg		103	68 - 136	1	30
Aldrin	0.133	0.135		mg/Kg		101	68 - 136	1	30
alpha-BHC	0.133	0.140		mg/Kg		105	71 - 136	1	30
alpha-BHC	0.133	0.141		mg/Kg		106	71 - 136	0	30
beta-BHC	0.133	0.132		mg/Kg		99	67 - 133	1	30
beta-BHC	0.133	0.136		mg/Kg		102	67 - 133	1	30
cis-Chlordane	0.133	0.140		mg/Kg		105	70 - 140	2	30
cis-Chlordane	0.133	0.134		mg/Kg		101	70 - 140	1	30
delta-BHC	0.133	0.146		mg/Kg		109	70 - 135	2	30
delta-BHC	0.133	0.146		mg/Kg		109	70 - 135	1	30
Dieldrin	0.133	0.143		mg/Kg		107	71 - 135	2	30
Dieldrin	0.133	0.136		mg/Kg		102	71 - 135	1	30

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QC Sample Results

Client: Haley & Aldrich Inc
Project/Site: Former Port Mobil

Job ID: 460-348810-1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCSD 460-1101787/3-A

Matrix: Solid

Analysis Batch: 1101966

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 1101787

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Endosulfan I	0.133	0.142		mg/Kg		106	70 - 141	2	30
Endosulfan I	0.133	0.137		mg/Kg		103	70 - 141	1	30
Endosulfan II	0.133	0.141		mg/Kg		106	75 - 141	2	30
Endosulfan II	0.133	0.139		mg/Kg		104	75 - 141	1	30
Endosulfan sulfate	0.133	0.141		mg/Kg		106	67 - 130	1	30
Endosulfan sulfate	0.133	0.140		mg/Kg		105	67 - 130	0	30
Endrin	0.133	0.145		mg/Kg		109	66 - 143	2	30
Endrin	0.133	0.134		mg/Kg		101	66 - 143	0	30
Endrin aldehyde	0.133	0.143		mg/Kg		107	70 - 132	1	30
Endrin aldehyde	0.133	0.138		mg/Kg		103	70 - 132	1	30
Endrin ketone	0.133	0.144		mg/Kg		108	66 - 137	1	30
Endrin ketone	0.133	0.145		mg/Kg		109	66 - 137	0	30
gamma-BHC (Lindane)	0.133	0.143		mg/Kg		107	71 - 137	1	30
gamma-BHC (Lindane)	0.133	0.141		mg/Kg		106	71 - 137	0	30
Heptachlor	0.133	0.137		mg/Kg		103	70 - 140	1	30
Heptachlor	0.133	0.137		mg/Kg		103	70 - 140	0	30
Heptachlor epoxide	0.133	0.139		mg/Kg		104	70 - 135	2	30
Heptachlor epoxide	0.133	0.136		mg/Kg		102	70 - 135	1	30
Methoxychlor	0.133	0.145		mg/Kg		109	63 - 138	1	30
Methoxychlor	0.133	0.136		mg/Kg		102	63 - 138	3	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
DCB Decachlorobiphenyl	97		10 - 150
DCB Decachlorobiphenyl	106		10 - 150
Tetrachloro-m-xylene	80		14 - 150
Tetrachloro-m-xylene	84		14 - 150

Lab Sample ID: 460-348801-B-1-F MS

Matrix: Solid

Analysis Batch: 1101966

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 1101787

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	0.0023	U	0.151	0.106	*	mg/Kg	⊛	70	71 - 134
4,4'-DDD	0.0023	U	0.151	0.106	*	mg/Kg	⊛	70	71 - 134
4,4'-DDE	0.0023	U	0.151	0.108		mg/Kg	⊛	72	71 - 137
4,4'-DDE	0.0023	U	0.151	0.107		mg/Kg	⊛	71	71 - 137
4,4'-DDT	0.0023	U	0.151	0.115		mg/Kg	⊛	76	69 - 140
4,4'-DDT	0.0023	U	0.151	0.112		mg/Kg	⊛	74	69 - 140
Aldrin	0.0023	U	0.151	0.0985	*	mg/Kg	⊛	65	68 - 136
Aldrin	0.0023	U	0.151	0.0999	*	mg/Kg	⊛	66	68 - 136
alpha-BHC	0.0023	U	0.151	0.103	*	mg/Kg	⊛	68	71 - 136
alpha-BHC	0.0023	U	0.151	0.107		mg/Kg	⊛	71	71 - 136
beta-BHC	0.0023	U	0.151	0.104		mg/Kg	⊛	69	67 - 133
beta-BHC	0.0023	U	0.151	0.107		mg/Kg	⊛	71	67 - 133
cis-Chlordane	0.0023	U	0.151	0.108		mg/Kg	⊛	72	70 - 140
cis-Chlordane	0.0023	U	0.151	0.106		mg/Kg	⊛	70	70 - 140
delta-BHC	0.0023	U	0.151	0.111		mg/Kg	⊛	73	70 - 135
delta-BHC	0.0023	U	0.151	0.114		mg/Kg	⊛	76	70 - 135

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QC Sample Results

Client: Haley & Aldrich Inc
Project/Site: Former Port Mobil

Job ID: 460-348810-1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 460-348801-B-1-F MS

Matrix: Solid

Analysis Batch: 1101966

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 1101787

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Dieldrin	0.0023	U	0.151	0.109		mg/Kg	☼	72	71 - 135
Dieldrin	0.0023	U	0.151	0.107		mg/Kg	☼	71	71 - 135
Endosulfan I	0.0023	U	0.151	0.108		mg/Kg	☼	72	70 - 141
Endosulfan I	0.0023	U	0.151	0.108		mg/Kg	☼	72	70 - 141
Endosulfan II	0.0023	U	0.151	0.109	*	mg/Kg	☼	72	75 - 141
Endosulfan II	0.0023	U	0.151	0.110	*	mg/Kg	☼	72	75 - 141
Endosulfan sulfate	0.0023	U	0.151	0.108		mg/Kg	☼	72	67 - 130
Endosulfan sulfate	0.0023	U	0.151	0.110		mg/Kg	☼	73	67 - 130
Endrin	0.0023	U	0.151	0.112		mg/Kg	☼	74	66 - 143
Endrin	0.0023	U	0.151	0.106		mg/Kg	☼	70	66 - 143
Endrin aldehyde	0.0023	U	0.151	0.103	*	mg/Kg	☼	68	70 - 132
Endrin aldehyde	0.0023	U	0.151	0.105		mg/Kg	☼	70	70 - 132
Endrin ketone	0.0023	U	0.151	0.112		mg/Kg	☼	74	66 - 137
Endrin ketone	0.0023	U	0.151	0.115		mg/Kg	☼	76	66 - 137
gamma-BHC (Lindane)	0.0023	U	0.151	0.106	*	mg/Kg	☼	70	71 - 137
gamma-BHC (Lindane)	0.0023	U	0.151	0.108		mg/Kg	☼	71	71 - 137
Heptachlor	0.0023	U	0.151	0.102	*	mg/Kg	☼	68	70 - 140
Heptachlor	0.0023	U	0.151	0.108		mg/Kg	☼	71	70 - 140
Heptachlor epoxide	0.0023	U	0.151	0.107		mg/Kg	☼	71	70 - 135
Heptachlor epoxide	0.0023	U	0.151	0.108		mg/Kg	☼	71	70 - 135
Methoxychlor	0.0023	U	0.151	0.115		mg/Kg	☼	76	63 - 138
Methoxychlor	0.0023	U	0.151	0.110		mg/Kg	☼	73	63 - 138

Surrogate	MS %Recovery	MS Qualifier	Limits
DCB Decachlorobiphenyl	71		10 - 150
DCB Decachlorobiphenyl	72		10 - 150
Tetrachloro-m-xylene	55		14 - 150
Tetrachloro-m-xylene	57		14 - 150

Lab Sample ID: 460-348801-B-1-G MSD

Matrix: Solid

Analysis Batch: 1101966

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 1101787

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4,4'-DDD	0.0023	U	0.151	0.125		mg/Kg	☼	83	71 - 134	17	30
4,4'-DDD	0.0023	U	0.151	0.127		mg/Kg	☼	84	71 - 134	18	30
4,4'-DDE	0.0023	U	0.151	0.130		mg/Kg	☼	86	71 - 137	18	30
4,4'-DDE	0.0023	U	0.151	0.126		mg/Kg	☼	83	71 - 137	16	30
4,4'-DDT	0.0023	U	0.151	0.137		mg/Kg	☼	90	69 - 140	17	30
4,4'-DDT	0.0023	U	0.151	0.132		mg/Kg	☼	87	69 - 140	17	30
Aldrin	0.0023	U	0.151	0.116		mg/Kg	☼	77	68 - 136	17	30
Aldrin	0.0023	U	0.151	0.119		mg/Kg	☼	78	68 - 136	17	30
alpha-BHC	0.0023	U	0.151	0.124		mg/Kg	☼	82	71 - 136	19	30
alpha-BHC	0.0023	U	0.151	0.128		mg/Kg	☼	85	71 - 136	18	30
beta-BHC	0.0023	U	0.151	0.123		mg/Kg	☼	81	67 - 133	17	30
beta-BHC	0.0023	U	0.151	0.129		mg/Kg	☼	85	67 - 133	18	30
cis-Chlordane	0.0023	U	0.151	0.129		mg/Kg	☼	85	70 - 140	17	30
cis-Chlordane	0.0023	U	0.151	0.125		mg/Kg	☼	83	70 - 140	17	30

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QC Sample Results

Client: Haley & Aldrich Inc
Project/Site: Former Port Mobil

Job ID: 460-348810-1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 460-348801-B-1-G MSD

Matrix: Solid

Analysis Batch: 1101966

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 1101787

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
delta-BHC	0.0023	U	0.151	0.133		mg/Kg	☼	88	70 - 135	18	30
delta-BHC	0.0023	U	0.151	0.136		mg/Kg	☼	90	70 - 135	17	30
Dieldrin	0.0023	U	0.151	0.129		mg/Kg	☼	85	71 - 135	16	30
Dieldrin	0.0023	U	0.151	0.126		mg/Kg	☼	83	71 - 135	16	30
Endosulfan I	0.0023	U	0.151	0.128		mg/Kg	☼	85	70 - 141	17	30
Endosulfan I	0.0023	U	0.151	0.128		mg/Kg	☼	84	70 - 141	16	30
Endosulfan II	0.0023	U	0.151	0.128		mg/Kg	☼	84	75 - 141	16	30
Endosulfan II	0.0023	U	0.151	0.129		mg/Kg	☼	85	75 - 141	16	30
Endosulfan sulfate	0.0023	U	0.151	0.128		mg/Kg	☼	85	67 - 130	16	30
Endosulfan sulfate	0.0023	U	0.151	0.129		mg/Kg	☼	85	67 - 130	16	30
Endrin	0.0023	U	0.151	0.131		mg/Kg	☼	87	66 - 143	16	30
Endrin	0.0023	U	0.151	0.125		mg/Kg	☼	83	66 - 143	16	30
Endrin aldehyde	0.0023	U	0.151	0.119		mg/Kg	☼	79	70 - 132	14	30
Endrin aldehyde	0.0023	U	0.151	0.121		mg/Kg	☼	80	70 - 132	14	30
Endrin ketone	0.0023	U	0.151	0.132		mg/Kg	☼	88	66 - 137	17	30
Endrin ketone	0.0023	U	0.151	0.135		mg/Kg	☼	89	66 - 137	16	30
gamma-BHC (Lindane)	0.0023	U	0.151	0.128		mg/Kg	☼	85	71 - 137	18	30
gamma-BHC (Lindane)	0.0023	U	0.151	0.130		mg/Kg	☼	86	71 - 137	18	30
Heptachlor	0.0023	U	0.151	0.123		mg/Kg	☼	81	70 - 140	18	30
Heptachlor	0.0023	U	0.151	0.128		mg/Kg	☼	84	70 - 140	17	30
Heptachlor epoxide	0.0023	U	0.151	0.126		mg/Kg	☼	83	70 - 135	16	30
Heptachlor epoxide	0.0023	U	0.151	0.127		mg/Kg	☼	84	70 - 135	16	30
Methoxychlor	0.0023	U	0.151	0.134		mg/Kg	☼	89	63 - 138	15	30
Methoxychlor	0.0023	U	0.151	0.128		mg/Kg	☼	84	63 - 138	15	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
DCB Decachlorobiphenyl	86		10 - 150
DCB Decachlorobiphenyl	89		10 - 150
Tetrachloro-m-xylene	68		14 - 150
Tetrachloro-m-xylene	71		14 - 150

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 460-1101784/1-A

Matrix: Solid

Analysis Batch: 1102005

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 1101784

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.067	U	0.067	0.018	mg/Kg		04/16/26 10:09	04/17/26 12:18	1
Aroclor 1016	0.067	U	0.067	0.018	mg/Kg		04/16/26 10:09	04/17/26 12:18	1
Aroclor 1221	0.067	U	0.067	0.018	mg/Kg		04/16/26 10:09	04/17/26 12:18	1
Aroclor 1221	0.067	U	0.067	0.018	mg/Kg		04/16/26 10:09	04/17/26 12:18	1
Aroclor 1232	0.067	U	0.067	0.018	mg/Kg		04/16/26 10:09	04/17/26 12:18	1
Aroclor 1232	0.067	U	0.067	0.018	mg/Kg		04/16/26 10:09	04/17/26 12:18	1
Aroclor 1242	0.067	U	0.067	0.018	mg/Kg		04/16/26 10:09	04/17/26 12:18	1
Aroclor 1242	0.067	U	0.067	0.018	mg/Kg		04/16/26 10:09	04/17/26 12:18	1
Aroclor 1248	0.067	U	0.067	0.018	mg/Kg		04/16/26 10:09	04/17/26 12:18	1
Aroclor 1248	0.067	U	0.067	0.018	mg/Kg		04/16/26 10:09	04/17/26 12:18	1
Aroclor 1254	0.067	U	0.067	0.018	mg/Kg		04/16/26 10:09	04/17/26 12:18	1

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QC Sample Results

Client: Haley & Aldrich Inc
Project/Site: Former Port Mobil

Job ID: 460-348810-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 460-1101784/1-A

Matrix: Solid

Analysis Batch: 1102005

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 1101784

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Aroclor 1254	0.067	U	0.067	0.018	mg/Kg		04/16/26 10:09	04/17/26 12:18	1
Aroclor 1260	0.067	U	0.067	0.018	mg/Kg		04/16/26 10:09	04/17/26 12:18	1
Aroclor 1260	0.067	U	0.067	0.018	mg/Kg		04/16/26 10:09	04/17/26 12:18	1
Aroclor-1262	0.067	U	0.067	0.018	mg/Kg		04/16/26 10:09	04/17/26 12:18	1
Aroclor-1262	0.067	U	0.067	0.018	mg/Kg		04/16/26 10:09	04/17/26 12:18	1
Aroclor 1268	0.067	U	0.067	0.018	mg/Kg		04/16/26 10:09	04/17/26 12:18	1
Aroclor 1268	0.067	U	0.067	0.018	mg/Kg		04/16/26 10:09	04/17/26 12:18	1
Polychlorinated biphenyls, Total	0.067	U	0.067	0.018	mg/Kg		04/16/26 10:09	04/17/26 12:18	1
Polychlorinated biphenyls, Total	0.067	U	0.067	0.018	mg/Kg		04/16/26 10:09	04/17/26 12:18	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
DCB Decachlorobiphenyl	120		10 - 150	04/16/26 10:09	04/17/26 12:18	1
DCB Decachlorobiphenyl	107		10 - 150	04/16/26 10:09	04/17/26 12:18	1
Tetrachloro-m-xylene	94		10 - 150	04/16/26 10:09	04/17/26 12:18	1
Tetrachloro-m-xylene	97		10 - 150	04/16/26 10:09	04/17/26 12:18	1

Lab Sample ID: LCS 460-1101784/2-A

Matrix: Solid

Analysis Batch: 1102005

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 1101784

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Aroclor 1016	0.333	0.294		mg/Kg		88	59 - 149
Aroclor 1016	0.333	0.309		mg/Kg		93	59 - 149
Aroclor 1260	0.333	0.299		mg/Kg		90	62 - 145
Aroclor 1260	0.333	0.315		mg/Kg		95	62 - 145

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
DCB Decachlorobiphenyl	112		10 - 150
DCB Decachlorobiphenyl	103		10 - 150
Tetrachloro-m-xylene	88		10 - 150
Tetrachloro-m-xylene	92		10 - 150

Lab Sample ID: LCSD 460-1101784/3-A

Matrix: Solid

Analysis Batch: 1102005

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 1101784

Analyte	Spike Added	LCSD LCSD		Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
		Result	Qualifier						
Aroclor 1016	0.333	0.323		mg/Kg		97	59 - 149	9	30
Aroclor 1016	0.333	0.354		mg/Kg		106	59 - 149	14	30
Aroclor 1260	0.333	0.344		mg/Kg		103	62 - 145	14	30
Aroclor 1260	0.333	0.363		mg/Kg		109	62 - 145	14	30

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
DCB Decachlorobiphenyl	129		10 - 150
DCB Decachlorobiphenyl	119		10 - 150
Tetrachloro-m-xylene	100		10 - 150
Tetrachloro-m-xylene	107		10 - 150

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QC Sample Results

Client: Haley & Aldrich Inc
Project/Site: Former Port Mobil

Job ID: 460-348810-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 460-348801-B-1-C MS

Matrix: Solid

Analysis Batch: 1102182

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 1101784

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aroclor 1016	0.076	U	0.378	0.299		mg/Kg	☼	79	59 - 149
Aroclor 1016	0.076	U	0.378	0.344		mg/Kg	☼	91	59 - 149
Aroclor 1260	0.076	U	0.378	0.321		mg/Kg	☼	85	62 - 145
Aroclor 1260	0.076	U	0.378	0.354		mg/Kg	☼	94	62 - 145

Surrogate	MS %Recovery	MS Qualifier	Limits
DCB Decachlorobiphenyl	106		10 - 150
DCB Decachlorobiphenyl	104		10 - 150
Tetrachloro-m-xylene	85		10 - 150
Tetrachloro-m-xylene	89		10 - 150

Lab Sample ID: 460-348801-B-1-D MSD

Matrix: Solid

Analysis Batch: 1102182

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 1101784

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor 1016	0.076	U	0.378	0.329		mg/Kg	☼	87	59 - 149	10	30
Aroclor 1016	0.076	U	0.378	0.383		mg/Kg	☼	101	59 - 149	11	30
Aroclor 1260	0.076	U	0.378	0.363		mg/Kg	☼	96	62 - 145	12	30
Aroclor 1260	0.076	U	0.378	0.395		mg/Kg	☼	104	62 - 145	11	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
DCB Decachlorobiphenyl	117		10 - 150
DCB Decachlorobiphenyl	115		10 - 150
Tetrachloro-m-xylene	98		10 - 150
Tetrachloro-m-xylene	101		10 - 150

Method: 1633A - Per- and Polyfluoroalkyl Substances by LC/MS/MS, 1633A

Lab Sample ID: MB 410-801581/1-A

Matrix: Solid

Analysis Batch: 801092

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 801581

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.40	U	0.40	0.10	ug/Kg		04/16/26 14:24	04/16/26 21:50	1
Perfluoropentanoic acid (PFPeA)	0.20	U	0.20	0.10	ug/Kg		04/16/26 14:24	04/16/26 21:50	1
Perfluorohexanoic acid (PFHxA)	0.20	U	0.20	0.10	ug/Kg		04/16/26 14:24	04/16/26 21:50	1
Perfluoroheptanoic acid (PFHpA)	0.20	U	0.20	0.10	ug/Kg		04/16/26 14:24	04/16/26 21:50	1
Perfluorooctanoic acid (PFOA)	0.20	U	0.20	0.060	ug/Kg		04/16/26 14:24	04/16/26 21:50	1
Perfluorononanoic acid (PFNA)	0.20	U	0.20	0.10	ug/Kg		04/16/26 14:24	04/16/26 21:50	1
Perfluorodecanoic acid (PFDA)	0.20	U	0.20	0.060	ug/Kg		04/16/26 14:24	04/16/26 21:50	1
Perfluoroundecanoic acid (PFUnA)	0.20	U	0.20	0.10	ug/Kg		04/16/26 14:24	04/16/26 21:50	1
Perfluorododecanoic acid (PFDoA)	0.20	U	0.20	0.10	ug/Kg		04/16/26 14:24	04/16/26 21:50	1
Perfluorotridecanoic acid (PFTTrDA)	0.20	U	0.20	0.10	ug/Kg		04/16/26 14:24	04/16/26 21:50	1
Perfluorotetradecanoic acid (PFTeDA)	0.20	U	0.20	0.10	ug/Kg		04/16/26 14:24	04/16/26 21:50	1
Perfluorobutanesulfonic acid (PFBS)	0.20	U	0.20	0.10	ug/Kg		04/16/26 14:24	04/16/26 21:50	1
Perfluoropentanesulfonic acid (PFPeS)	0.20	U	0.20	0.10	ug/Kg		04/16/26 14:24	04/16/26 21:50	1

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QC Sample Results

Client: Haley & Aldrich Inc
Project/Site: Former Port Mobil

Job ID: 460-348810-1

Method: 1633A - Per- and Polyfluoroalkyl Substances by LC/MS/MS, 1633A (Continued)

Lab Sample ID: MB 410-801581/1-A

Matrix: Solid

Analysis Batch: 801092

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 801581

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanesulfonic acid (PFHxS)	0.20	U	0.20	0.10	ug/Kg		04/16/26 14:24	04/16/26 21:50	1
Perfluoroheptanesulfonic acid (PFHpS)	0.20	U	0.20	0.10	ug/Kg		04/16/26 14:24	04/16/26 21:50	1
Perfluorooctanesulfonic acid (PFOS)	0.20	U	0.20	0.10	ug/Kg		04/16/26 14:24	04/16/26 21:50	1
Perfluorononanesulfonic acid (PFNS)	0.20	U	0.20	0.10	ug/Kg		04/16/26 14:24	04/16/26 21:50	1
Perfluorodecanesulfonic acid (PFDS)	0.20	U	0.20	0.10	ug/Kg		04/16/26 14:24	04/16/26 21:50	1
Perfluorododecanesulfonic acid (PFDoS)	0.20	U	0.20	0.10	ug/Kg		04/16/26 14:24	04/16/26 21:50	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.40	U	0.40	0.20	ug/Kg		04/16/26 14:24	04/16/26 21:50	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.40	U	0.40	0.20	ug/Kg		04/16/26 14:24	04/16/26 21:50	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.40	U	0.40	0.20	ug/Kg		04/16/26 14:24	04/16/26 21:50	1
Perfluorooctanesulfonamide (PFOSA)	0.20	U	0.20	0.10	ug/Kg		04/16/26 14:24	04/16/26 21:50	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.20	U	0.20	0.10	ug/Kg		04/16/26 14:24	04/16/26 21:50	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.20	U	0.20	0.10	ug/Kg		04/16/26 14:24	04/16/26 21:50	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.20	U	0.20	0.10	ug/Kg		04/16/26 14:24	04/16/26 21:50	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.20	U	0.20	0.10	ug/Kg		04/16/26 14:24	04/16/26 21:50	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1.00	U	1.00	0.50	ug/Kg		04/16/26 14:24	04/16/26 21:50	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1.00	U	1.00	0.50	ug/Kg		04/16/26 14:24	04/16/26 21:50	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.20	U	0.20	0.10	ug/Kg		04/16/26 14:24	04/16/26 21:50	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.20	U	0.20	0.10	ug/Kg		04/16/26 14:24	04/16/26 21:50	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.20	U	0.20	0.10	ug/Kg		04/16/26 14:24	04/16/26 21:50	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.20	U	0.20	0.10	ug/Kg		04/16/26 14:24	04/16/26 21:50	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.20	U	0.20	0.10	ug/Kg		04/16/26 14:24	04/16/26 21:50	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	0.20	U	0.20	0.10	ug/Kg		04/16/26 14:24	04/16/26 21:50	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.20	U	0.20	0.10	ug/Kg		04/16/26 14:24	04/16/26 21:50	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.20	U	0.20	0.10	ug/Kg		04/16/26 14:24	04/16/26 21:50	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.40	U	0.40	0.20	ug/Kg		04/16/26 14:24	04/16/26 21:50	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	1.00	U	1.00	0.50	ug/Kg		04/16/26 14:24	04/16/26 21:50	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	1.00	U	1.00	0.50	ug/Kg		04/16/26 14:24	04/16/26 21:50	1
Isotope Dilution	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	122		8 - 130				04/16/26 14:24	04/16/26 21:50	1
13C5 PFPeA	115		35 - 130				04/16/26 14:24	04/16/26 21:50	1
13C5 PFHxA	116		40 - 130				04/16/26 14:24	04/16/26 21:50	1

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QC Sample Results

Client: Haley & Aldrich Inc
Project/Site: Former Port Mobil

Job ID: 460-348810-1

Method: 1633A - Per- and Polyfluoroalkyl Substances by LC/MS/MS, 1633A (Continued)

Lab Sample ID: MB 410-801581/1-A

Matrix: Solid

Analysis Batch: 801092

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 801581

Isotope Dilution	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C4 PFHpA	113		40 - 130	04/16/26 14:24	04/16/26 21:50	1
13C8 PFOA	107		40 - 130	04/16/26 14:24	04/16/26 21:50	1
13C9 PFNA	105		40 - 130	04/16/26 14:24	04/16/26 21:50	1
13C6 PFDA	108		40 - 130	04/16/26 14:24	04/16/26 21:50	1
13C7 PFUnA	98.6		40 - 130	04/16/26 14:24	04/16/26 21:50	1
13C2 PFTeDA	93.8		20 - 130	04/16/26 14:24	04/16/26 21:50	1
13C3 PFBS	112		40 - 135	04/16/26 14:24	04/16/26 21:50	1
13C3 PFHxS	111		40 - 130	04/16/26 14:24	04/16/26 21:50	1
13C8 PFOS	101		40 - 130	04/16/26 14:24	04/16/26 21:50	1
13C8 FOSA	92.0		40 - 130	04/16/26 14:24	04/16/26 21:50	1
d3-NMeFOSAA	98.2		40 - 135	04/16/26 14:24	04/16/26 21:50	1
d5-NEtFOSAA	90.1		40 - 150	04/16/26 14:24	04/16/26 21:50	1
13C2 4:2 FTS	120		40 - 165	04/16/26 14:24	04/16/26 21:50	1
13C2 6:2 FTS	122		40 - 215	04/16/26 14:24	04/16/26 21:50	1
13C2 8:2 FTS	237		40 - 275	04/16/26 14:24	04/16/26 21:50	1
13C3 HFPO-DA	110		40 - 130	04/16/26 14:24	04/16/26 21:50	1
d7-N-MeFOSE-M	52.5		20 - 130	04/16/26 14:24	04/16/26 21:50	1
d9-N-EtFOSE-M	48.3		15 - 130	04/16/26 14:24	04/16/26 21:50	1
d5-NEtPFOSA	72.2		10 - 130	04/16/26 14:24	04/16/26 21:50	1
d3-NMePFOSA	78.6		10 - 130	04/16/26 14:24	04/16/26 21:50	1
13C2 PFDoA	90.2		40 - 130	04/16/26 14:24	04/16/26 21:50	1

Lab Sample ID: LCS 410-801581/2-A

Matrix: Solid

Analysis Batch: 801092

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 801581

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Perfluorobutanoic acid (PFBA)	5.00	4.697		ug/Kg		94	70 - 140
Perfluoropentanoic acid (PFPeA)	2.50	2.186		ug/Kg		87	60 - 150
Perfluorohexanoic acid (PFHxA)	2.50	2.123		ug/Kg		85	65 - 140
Perfluoroheptanoic acid (PFHpA)	2.50	2.058		ug/Kg		82	65 - 145
Perfluorooctanoic acid (PFOA)	2.50	2.155		ug/Kg		86	70 - 150
Perfluorononanoic acid (PFNA)	2.50	2.162		ug/Kg		86	70 - 155
Perfluorodecanoic acid (PFDA)	2.50	2.153		ug/Kg		86	70 - 155
Perfluoroundecanoic acid (PFUnA)	2.50	2.194		ug/Kg		88	70 - 155
Perfluorododecanoic acid (PFDoA)	2.50	2.228		ug/Kg		89	70 - 150
Perfluorotridecanoic acid (PFTTrDA)	2.50	2.122		ug/Kg		85	65 - 150
Perfluorotetradecanoic acid (PFTeDA)	2.50	1.863		ug/Kg		75	65 - 150
Perfluorobutanesulfonic acid (PFBS)	2.22	1.766		ug/Kg		80	65 - 145
Perfluoropentanesulfonic acid (PFPeS)	2.35	2.037		ug/Kg		87	55 - 160
Perfluorohexanesulfonic acid (PFHxS)	2.28	1.984		ug/Kg		87	60 - 150
Perfluoroheptanesulfonic acid (PFHpS)	2.39	2.101		ug/Kg		88	65 - 155

Eurofins Edison

QC Sample Results

Client: Haley & Aldrich Inc
Project/Site: Former Port Mobil

Job ID: 460-348810-1

Method: 1633A - Per- and Polyfluoroalkyl Substances by LC/MS/MS, 1633A (Continued)

Lab Sample ID: LCS 410-801581/2-A

Matrix: Solid

Analysis Batch: 801092

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 801581

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanesulfonic acid (PFOS)	2.33	1.990		ug/Kg		86	65 - 160
Perfluorononanesulfonic acid (PFNS)	2.41	1.669		ug/Kg		69	55 - 140
Perfluorodecanesulfonic acid (PFDS)	2.41	1.628		ug/Kg		68	40 - 155
Perfluorododecanesulfonic acid (PFDoS)	2.43	1.450		ug/Kg		60	25 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	4.69	4.197		ug/Kg		89	60 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	4.76	4.143		ug/Kg		87	55 - 200
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	4.80	4.021		ug/Kg		84	70 - 150
Perfluorooctanesulfonamide (PFOSA)	2.50	2.142		ug/Kg		86	70 - 140
N-methylperfluorooctane sulfonamide (NMeFOSA)	2.50	2.238		ug/Kg		90	70 - 155
N-ethylperfluorooctane sulfonamide (NEtFOSA)	2.50	2.120		ug/Kg		85	70 - 140
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.50	2.182		ug/Kg		87	65 - 155
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.50	1.957		ug/Kg		78	65 - 165
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	12.5	11.17		ug/Kg		89	70 - 140
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	12.5	11.69		ug/Kg		94	70 - 135
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	1.88	1.641		ug/Kg		87	70 - 145
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.37	2.231		ug/Kg		94	70 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	2.50	2.298		ug/Kg		92	30 - 140
Perfluoro-4-methoxybutanoic acid (PFMBA)	2.50	2.336		ug/Kg		93	60 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	2.50	2.061		ug/Kg		82	60 - 155
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.34	1.779		ug/Kg		76	70 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.36	1.712		ug/Kg		73	45 - 160
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	2.23	1.903		ug/Kg		85	70 - 140
3-Perfluoropropylpropanoic acid (3:3 FTCA)	5.00	4.238		ug/Kg		85	45 - 130
3-Perfluoropentylpropanoic acid (5:3 FTCA)	12.5	9.930		ug/Kg		79	60 - 130
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	12.5	9.157		ug/Kg		73	60 - 150

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
¹³ C4 PFBA	107		8 - 130

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QC Sample Results

Client: Haley & Aldrich Inc
Project/Site: Former Port Mobil

Job ID: 460-348810-1

Method: 1633A - Per- and Polyfluoroalkyl Substances by LC/MS/MS, 1633A (Continued)

Lab Sample ID: LCS 410-801581/2-A

Matrix: Solid

Analysis Batch: 801092

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 801581

Isotope Dilution	LCS LCS		Limits
	%Recovery	Qualifier	
13C5 PFPeA	99.1		35 - 130
13C5 PFHxA	103		40 - 130
13C4 PFHpA	105		40 - 130
13C8 PFOA	98.9		40 - 130
13C9 PFNA	93.4		40 - 130
13C6 PFDA	90.4		40 - 130
13C7 PFUnA	81.9		40 - 130
13C2 PFTeDA	71.3		20 - 130
13C3 PFBS	98.8		40 - 135
13C3 PFHxS	96.2		40 - 130
13C8 PFOS	78.2		40 - 130
13C8 FOSA	73.2		40 - 130
d3-NMeFOSAA	77.0		40 - 135
d5-NEtFOSAA	69.9		40 - 150
13C2 4:2 FTS	101		40 - 165
13C2 6:2 FTS	106		40 - 215
13C2 8:2 FTS	212		40 - 275
13C3 HFPO-DA	97.5		40 - 130
d7-N-MeFOSE-M	46.7		20 - 130
d9-N-EtFOSE-M	42.1		15 - 130
d5-NEtPFOSA	55.4		10 - 130
d3-NMePFOSA	59.8		10 - 130
13C2 PFDoA	71.0		40 - 130

Lab Sample ID: LLCS 410-801581/3-A

Matrix: Solid

Analysis Batch: 801092

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 801581

Analyte	Spike Added	LLCS LLCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Perfluorobutanoic acid (PFBA)	0.500	0.457		ug/Kg		91	70 - 140
Perfluoropentanoic acid (PFPeA)	0.250	0.226		ug/Kg		91	60 - 150
Perfluorohexanoic acid (PFHxA)	0.250	0.235		ug/Kg		94	65 - 140
Perfluoroheptanoic acid (PFHpA)	0.250	0.215		ug/Kg		86	65 - 145
Perfluorooctanoic acid (PFOA)	0.250	0.252		ug/Kg		101	70 - 150
Perfluorononanoic acid (PFNA)	0.250	0.250		ug/Kg		100	70 - 155
Perfluorodecanoic acid (PFDA)	0.250	0.246		ug/Kg		98	70 - 155
Perfluoroundecanoic acid (PFUnA)	0.250	0.235		ug/Kg		94	70 - 155
Perfluorododecanoic acid (PFDoA)	0.250	0.243		ug/Kg		97	70 - 150
Perfluorotridecanoic acid (PFTTrDA)	0.250	0.218		ug/Kg		87	65 - 150
Perfluorotetradecanoic acid (PFTeDA)	0.250	0.211		ug/Kg		84	65 - 150
Perfluorobutanesulfonic acid (PFBS)	0.222	0.203		ug/Kg		92	65 - 145
Perfluoropentanesulfonic acid (PFPeS)	0.235	0.207		ug/Kg		88	55 - 160
Perfluorohexanesulfonic acid (PFHxS)	0.228	0.205		ug/Kg		90	60 - 150

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QC Sample Results

Client: Haley & Aldrich Inc
Project/Site: Former Port Mobil

Job ID: 460-348810-1

Method: 1633A - Per- and Polyfluoroalkyl Substances by LC/MS/MS, 1633A (Continued)

Lab Sample ID: LLCS 410-801581/3-A

Matrix: Solid

Analysis Batch: 801092

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 801581

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoroheptanesulfonic acid (PFHpS)	0.239	0.217		ug/Kg		91	65 - 155
Perfluorooctanesulfonic acid (PFOS)	0.233	0.219		ug/Kg		94	65 - 160
Perfluorononanesulfonic acid (PFNS)	0.241	0.196	J	ug/Kg		82	55 - 140
Perfluorodecanesulfonic acid (PFDS)	0.241	0.178	J	ug/Kg		74	40 - 155
Perfluorododecanesulfonic acid (PFDoS)	0.243	0.166	J	ug/Kg		68	25 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.469	0.469		ug/Kg		100	60 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.476	0.473		ug/Kg		99	55 - 200
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.480	0.445		ug/Kg		93	70 - 150
Perfluorooctanesulfonamide (PFOSA)	0.250	0.236		ug/Kg		95	70 - 140
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.250	0.247		ug/Kg		99	70 - 155
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.250	0.236		ug/Kg		94	70 - 140
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.250	0.200		ug/Kg		80	65 - 155
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.250	0.248		ug/Kg		99	65 - 165
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1.25	1.141		ug/Kg		91	70 - 140
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1.25	1.161		ug/Kg		93	70 - 135
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.188	0.173	J	ug/Kg		92	70 - 145
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.237	0.234		ug/Kg		99	70 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.250	0.247		ug/Kg		99	30 - 140
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.250	0.203		ug/Kg		81	60 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.250	0.247		ug/Kg		99	60 - 155
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	0.234	0.196	J	ug/Kg		84	70 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.236	0.190	J	ug/Kg		80	45 - 160
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	0.223	0.201		ug/Kg		90	70 - 140
3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.500	0.475		ug/Kg		95	45 - 130
3-Perfluoropentylpropanoic acid (5:3 FTCA)	1.25	1.123		ug/Kg		90	60 - 130
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	1.25	0.918	J	ug/Kg		73	60 - 150

Eurofins Edison

QC Sample Results

Client: Haley & Aldrich Inc
Project/Site: Former Port Mobil

Job ID: 460-348810-1

Method: 1633A - Per- and Polyfluoroalkyl Substances by LC/MS/MS, 1633A (Continued)

Isotope Dilution	LLCS LLCS		Limits
	%Recovery	Qualifier	
13C4 PFBA	107		8 - 130
13C5 PFPeA	102		35 - 130
13C5 PFHxA	102		40 - 130
13C4 PFHpA	99.5		40 - 130
13C8 PFOA	97.2		40 - 130
13C9 PFNA	93.0		40 - 130
13C6 PFDA	92.6		40 - 130
13C7 PFUnA	90.9		40 - 130
13C2 PFTeDA	85.8		20 - 130
13C3 PFBS	97.7		40 - 135
13C3 PFHxS	99.2		40 - 130
13C8 PFOS	93.7		40 - 130
13C8 FOSA	82.1		40 - 130
d3-NMeFOSAA	87.6		40 - 135
d5-NEtFOSAA	77.6		40 - 150
13C2 4:2 FTS	103		40 - 165
13C2 6:2 FTS	113		40 - 215
13C2 8:2 FTS	181		40 - 275
13C3 HFPO-DA	95.2		40 - 130
d7-N-MeFOSE-M	45.2		20 - 130
d9-N-EtFOSE-M	42.9		15 - 130
d5-NEtPFOSA	61.8		10 - 130
d3-NMePFOSA	66.9		10 - 130
13C2 PFDoA	80.1		40 - 130

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 460-1101835/1-A

Matrix: Solid

Analysis Batch: 1102145

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 1101835

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Aluminum	20.0	U	20.0	5.5	mg/Kg		04/16/26 14:02	04/17/26 11:08	1
Antimony	1.0	U	1.0	0.060	mg/Kg		04/16/26 14:02	04/17/26 11:08	1
Arsenic	1.0	U	1.0	0.10	mg/Kg		04/16/26 14:02	04/17/26 11:08	1
Barium	2.0	U	2.0	0.15	mg/Kg		04/16/26 14:02	04/17/26 11:08	1
Beryllium	0.40	U	0.40	0.022	mg/Kg		04/16/26 14:02	04/17/26 11:08	1
Cadmium	0.50	U	0.50	0.11	mg/Kg		04/16/26 14:02	04/17/26 11:08	1
Calcium	100	U	100	9.7	mg/Kg		04/16/26 14:02	04/17/26 11:08	1
Chromium	2.0	U	2.0	0.30	mg/Kg		04/16/26 14:02	04/17/26 11:08	1
Cobalt	1.0	U	1.0	0.15	mg/Kg		04/16/26 14:02	04/17/26 11:08	1
Copper	2.0	U	2.0	0.37	mg/Kg		04/16/26 14:02	04/17/26 11:08	1
Iron	60.0	U	60.0	7.7	mg/Kg		04/16/26 14:02	04/17/26 11:08	1
Lead	0.60	U	0.60	0.20	mg/Kg		04/16/26 14:02	04/17/26 11:08	1
Magnesium	100	U	100	10.2	mg/Kg		04/16/26 14:02	04/17/26 11:08	1
Manganese	4.0	U	4.0	0.40	mg/Kg		04/16/26 14:02	04/17/26 11:08	1
Nickel	2.0	U	2.0	0.18	mg/Kg		04/16/26 14:02	04/17/26 11:08	1
Potassium	100	U	100	6.2	mg/Kg		04/16/26 14:02	04/17/26 11:08	1
Selenium	1.3	U	1.3	0.13	mg/Kg		04/16/26 14:02	04/17/26 11:08	1
Silver	0.40	U	0.40	0.089	mg/Kg		04/16/26 14:02	04/17/26 11:08	1
Sodium	100	U	100	17.3	mg/Kg		04/16/26 14:02	04/17/26 11:08	1
Thallium	0.40	U	0.40	0.041	mg/Kg		04/16/26 14:02	04/17/26 11:08	1

Eurofins Edison

QC Sample Results

Client: Haley & Aldrich Inc
Project/Site: Former Port Mobil

Job ID: 460-348810-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 460-1101835/1-A

Matrix: Solid

Analysis Batch: 1102145

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 1101835

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	2.0	U	2.0	0.21	mg/Kg		04/16/26 14:02	04/17/26 11:08	1
Zinc	8.0	U	8.0	1.1	mg/Kg		04/16/26 14:02	04/17/26 11:08	1

Lab Sample ID: LCSSRM 460-1101835/2-A

Matrix: Solid

Analysis Batch: 1102145

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 1101835

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	6570	4637		mg/Kg		70.6	51.3 - 148.7
Antimony	147	80.75		mg/Kg		54.9	7.3 - 191.8
Arsenic	141	129.5		mg/Kg		91.8	80.9 - 118.4
Barium	221	196.9		mg/Kg		89.1	81.9 - 118.1
Beryllium	181	153.7		mg/Kg		84.9	82.9 - 117.1
Cadmium	230	212.0		mg/Kg		92.2	82.6 - 117.8
Calcium	4010	3862		mg/Kg		96.3	82.0 - 118.0
Chromium	198	181.8		mg/Kg		91.8	81.8 - 118.2
Cobalt	252	236.9		mg/Kg		94.0	83.3 - 116.7
Copper	130	122.6		mg/Kg		94.3	83.8 - 116.9
Iron	6920	5471		mg/Kg		79.1	60.1 - 139.7
Lead	198	176.5		mg/Kg		89.1	82.8 - 117.2
Magnesium	1710	1455		mg/Kg		85.1	76.0 - 124.6
Manganese	440	387.5		mg/Kg		88.1	81.6 - 118.4
Nickel	280	270.0		mg/Kg		96.4	82.1 - 117.5
Potassium	2100	1758		mg/Kg		83.7	71.4 - 128.1
Selenium	189	176.3		mg/Kg		93.3	79.4 - 121.2
Silver	64.0	57.42		mg/Kg		89.7	80.3 - 119.7
Sodium	343	330.9	J	mg/Kg		96.5	74.6 - 125.1
Thallium	114	103.5		mg/Kg		90.8	81.0 - 119.3
Vanadium	192	174.1		mg/Kg		90.7	78.6 - 121.9
Zinc	190	177.1		mg/Kg		93.2	80.5 - 119.5

Eurofins Edison

QC Sample Results

Client: Haley & Aldrich Inc
Project/Site: Former Port Mobil

Job ID: 460-348810-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 460-348815-A-1-D MS

Matrix: Solid

Analysis Batch: 1102145

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 1101835

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	3150		515	4368	4	mg/Kg	✱	237	75 - 125
Antimony	0.086	J	5.15	3.26	N	mg/Kg	✱	62	75 - 125
Arsenic	2.9		10.3	12.37		mg/Kg	✱	92	75 - 125
Barium	23.4		10.3	36.27		mg/Kg	✱	125	75 - 125
Beryllium	0.15	J	5.15	4.39		mg/Kg	✱	82	75 - 125
Cadmium	0.51	U	5.15	4.69		mg/Kg	✱	91	75 - 125
Calcium	10800		515	22990	4	mg/Kg	✱	2369	75 - 125
Chromium	8.3		10.3	19.01		mg/Kg	✱	104	75 - 125
Cobalt	2.5		5.15	7.22		mg/Kg	✱	92	75 - 125
Copper	12.8		10.3	23.00		mg/Kg	✱	99	75 - 125
Iron	7090		515	7888	4	mg/Kg	✱	155	75 - 125
Lead	18.4		5.15	24.82	N	mg/Kg	✱	126	75 - 125
Magnesium	2740		515	5436	4	mg/Kg	✱	525	75 - 125
Manganese	79.7		51.5	130.4		mg/Kg	✱	99	75 - 125
Nickel	6.2		10.3	16.40		mg/Kg	✱	99	75 - 125
Potassium	638		515	1136		mg/Kg	✱	97	75 - 125
Selenium	0.14	J	10.3	9.41		mg/Kg	✱	90	75 - 125
Silver	0.41	U	5.15	4.59		mg/Kg	✱	89	75 - 125
Sodium	159		515	648.7		mg/Kg	✱	95	75 - 125
Thallium	0.066	J	4.12	3.82		mg/Kg	✱	91	75 - 125
Vanadium	12.8		10.3	23.07		mg/Kg	✱	100	75 - 125
Zinc	30.3		51.5	75.78		mg/Kg	✱	88	75 - 125

Lab Sample ID: 460-348815-A-1-C DU

Matrix: Solid

Analysis Batch: 1102145

Client Sample ID: Duplicate

Prep Type: Total/NA

Prep Batch: 1101835

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Aluminum	3150		3759		mg/Kg	✱	18	20
Antimony	0.086	J	0.0887	J	mg/Kg	✱	3	20
Arsenic	2.9		2.89		mg/Kg	✱	0.9	20
Barium	23.4		25.15		mg/Kg	✱	7	20
Beryllium	0.15	J	0.159	J	mg/Kg	✱	8	20
Cadmium	0.51	U	0.51	U	mg/Kg	✱	NC	20
Calcium	10800		13530	*	mg/Kg	✱	22	20
Chromium	8.3		9.68		mg/Kg	✱	15	20
Cobalt	2.5		3.28		mg/Kg	✱	27	20
Copper	12.8		18.22	*	mg/Kg	✱	35	20
Iron	7090		8568		mg/Kg	✱	19	20
Lead	18.4		17.18		mg/Kg	✱	7	20
Magnesium	2740		3663	*	mg/Kg	✱	29	20
Manganese	79.7		77.23		mg/Kg	✱	3	20
Nickel	6.2		7.41		mg/Kg	✱	18	20
Potassium	638		707.8		mg/Kg	✱	10	20
Selenium	0.14	J	1.3	U	mg/Kg	✱	NC	20
Silver	0.41	U	0.41	U	mg/Kg	✱	NC	20
Sodium	159		200.4		mg/Kg	✱	23	20
Thallium	0.066	J	0.0433	J	mg/Kg	✱	42	20
Vanadium	12.8		16.03	*	mg/Kg	✱	22	20

Eurofins Edison

QC Sample Results

Client: Haley & Aldrich Inc
Project/Site: Former Port Mobil

Job ID: 460-348810-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 460-348815-A-1-C DU

Matrix: Solid

Analysis Batch: 1102145

Client Sample ID: Duplicate

Prep Type: Total/NA

Prep Batch: 1101835

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Zinc	30.3		33.45		mg/Kg	✱	10	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 460-1102522/1-A

Matrix: Solid

Analysis Batch: 1102656

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 1102522

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.017	U	0.017	0.0060	mg/Kg		04/20/26 02:12	04/20/26 11:39	1

Lab Sample ID: LCSSRM 460-1102522/2-A

Matrix: Solid

Analysis Batch: 1102656

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 1102522

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	21.3	21.51		mg/Kg		101.0	68.5 - 131.0

Lab Sample ID: 460-348989-B-1-O MS

Matrix: Solid

Analysis Batch: 1102656

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 1102522

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.0069	J	0.0800	0.0860		mg/Kg	✱	99	80 - 120

Lab Sample ID: 460-348989-B-1-P MSD

Matrix: Solid

Analysis Batch: 1102656

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 1102522

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Mercury	0.0069	J	0.0800	0.0853		mg/Kg	✱	98	80 - 120	1	20

Lab Sample ID: 460-348989-B-1-N DU

Matrix: Solid

Analysis Batch: 1102656

Client Sample ID: Duplicate

Prep Type: Total/NA

Prep Batch: 1102522

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Mercury	0.0069	J	0.00680	J	mg/Kg	✱	1	20

Method: Moisture - Percent Moisture

Lab Sample ID: 460-348340-D-4 DU

Matrix: Solid

Analysis Batch: 1101588

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Percent Moisture	14.8		18.8	*	%		23	20
Percent Solids	85.2		81.2		%		5	20

Eurofins Edison

QC Sample Results

Client: Haley & Aldrich Inc
Project/Site: Former Port Mobil

Job ID: 460-348810-1

Method: Moisture - Percent Moisture (Continued)

Lab Sample ID: 460-348628-A-1 DU

Matrix: Solid

Analysis Batch: 1101588

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Percent Moisture	51.1		55.4		%		8	20
Percent Solids	48.9		44.6		%		9	20

Lab Sample ID: 460-348805-A-39 DU

Matrix: Solid

Analysis Batch: 1101630

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Percent Moisture	10.2		11.2		%		9	20
Percent Solids	89.8		88.8		%		1	20

QC Association Summary

Client: Haley & Aldrich Inc
Project/Site: Former Port Mobil

Job ID: 460-348810-1

GC/MS VOA

Prep Batch: 1101612

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-348810-1	AST04-ISS11_A	Total/NA	Solid	5035	
460-348810-2	AST04-ISS11_B	Total/NA	Solid	5035	

Prep Batch: 1101613

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-348810-3	AST04-ISS11_C	Total/NA	Solid	5035	
460-348810-4	AST04-ISS12_A	Total/NA	Solid	5035	
460-348810-5	AST04-ISS12_B	Total/NA	Solid	5035	
460-348810-6	AST04-ISS12_C	Total/NA	Solid	5035	
460-348810-7	AST04-ISS12_D	Total/NA	Solid	5035	
460-348810-8	AST04-ISS13_A	Total/NA	Solid	5035	
460-348810-9	AST04-ISS13_B	Total/NA	Solid	5035	
460-348810-10	AST04-ISS13_C	Total/NA	Solid	5035	
460-348810-11	AST04-ISS14_A	Total/NA	Solid	5035	
460-348810-12	AST04-ISS14_B	Total/NA	Solid	5035	
460-348810-13	AST04-ISS14_C	Total/NA	Solid	5035	
460-348810-14	AST04-ISS14_D	Total/NA	Solid	5035	

Analysis Batch: 1101958

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-348810-7	AST04-ISS12_D	Total/NA	Solid	8260D	1101613
460-348810-8	AST04-ISS13_A	Total/NA	Solid	8260D	1101613
460-348810-9	AST04-ISS13_B	Total/NA	Solid	8260D	1101613
460-348810-10	AST04-ISS13_C	Total/NA	Solid	8260D	1101613
460-348810-11	AST04-ISS14_A	Total/NA	Solid	8260D	1101613
MB 460-1101958/7	Method Blank	Total/NA	Solid	8260D	
LCS 460-1101958/3	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 460-1101958/4	Lab Control Sample Dup	Total/NA	Solid	8260D	

Analysis Batch: 1102111

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-348810-3	AST04-ISS11_C	Total/NA	Solid	8260D	1101613
460-348810-4	AST04-ISS12_A	Total/NA	Solid	8260D	1101613
460-348810-5	AST04-ISS12_B	Total/NA	Solid	8260D	1101613
460-348810-6	AST04-ISS12_C	Total/NA	Solid	8260D	1101613
460-348810-12	AST04-ISS14_B	Total/NA	Solid	8260D	1101613
460-348810-13	AST04-ISS14_C	Total/NA	Solid	8260D	1101613
460-348810-14	AST04-ISS14_D	Total/NA	Solid	8260D	1101613
MB 460-1102111/7	Method Blank	Total/NA	Solid	8260D	
LCS 460-1102111/2	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 460-1102111/3	Lab Control Sample Dup	Total/NA	Solid	8260D	

Analysis Batch: 1102402

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-348810-1	AST04-ISS11_A	Total/NA	Solid	8260D	1101612
460-348810-2	AST04-ISS11_B	Total/NA	Solid	8260D	1101612
MB 460-1102402/9	Method Blank	Total/NA	Solid	8260D	
LCS 460-1102402/3	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 460-1102402/4	Lab Control Sample Dup	Total/NA	Solid	8260D	

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QC Association Summary

Client: Haley & Aldrich Inc
Project/Site: Former Port Mobil

Job ID: 460-348810-1

GC/MS Semi VOA

Prep Batch: 1101641

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-348810-15	AST04-ISS11_0-5	Total/NA	Solid	3546	
460-348810-16	AST04-ISS12_0-6	Total/NA	Solid	3546	
460-348810-17	AST04-ISS13_0-6	Total/NA	Solid	3546	
460-348810-18	AST04-ISS14_0-7	Total/NA	Solid	3546	
MB 460-1101641/1-A	Method Blank	Total/NA	Solid	3546	
LCS 460-1101641/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 460-1101641/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
460-348803-E-6-A MS	Matrix Spike	Total/NA	Solid	3546	
460-348803-E-6-B MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Analysis Batch: 1101665

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-348810-15	AST04-ISS11_0-5	Total/NA	Solid	8270E	1101641
460-348810-16	AST04-ISS12_0-6	Total/NA	Solid	8270E	1101641
460-348810-17	AST04-ISS13_0-6	Total/NA	Solid	8270E	1101641
460-348810-18	AST04-ISS14_0-7	Total/NA	Solid	8270E	1101641
MB 460-1101641/1-A	Method Blank	Total/NA	Solid	8270E	1101641
LCS 460-1101641/2-A	Lab Control Sample	Total/NA	Solid	8270E	1101641
LCSD 460-1101641/3-A	Lab Control Sample Dup	Total/NA	Solid	8270E	1101641
460-348803-E-6-A MS	Matrix Spike	Total/NA	Solid	8270E	1101641
460-348803-E-6-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8270E	1101641

GC Semi VOA

Prep Batch: 1101784

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-348810-15	AST04-ISS11_0-5	Total/NA	Solid	3546	
460-348810-16	AST04-ISS12_0-6	Total/NA	Solid	3546	
460-348810-17	AST04-ISS13_0-6	Total/NA	Solid	3546	
460-348810-18	AST04-ISS14_0-7	Total/NA	Solid	3546	
MB 460-1101784/1-A	Method Blank	Total/NA	Solid	3546	
LCS 460-1101784/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 460-1101784/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
460-348801-B-1-C MS	Matrix Spike	Total/NA	Solid	3546	
460-348801-B-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Prep Batch: 1101787

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-348810-15	AST04-ISS11_0-5	Total/NA	Solid	3546	
460-348810-16	AST04-ISS12_0-6	Total/NA	Solid	3546	
460-348810-17	AST04-ISS13_0-6	Total/NA	Solid	3546	
460-348810-18	AST04-ISS14_0-7	Total/NA	Solid	3546	
MB 460-1101787/1-A	Method Blank	Total/NA	Solid	3546	
LCS 460-1101787/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 460-1101787/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
460-348801-B-1-F MS	Matrix Spike	Total/NA	Solid	3546	
460-348801-B-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Analysis Batch: 1101966

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-348810-15	AST04-ISS11_0-5	Total/NA	Solid	8081B	1101787

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QC Association Summary

Client: Haley & Aldrich Inc
Project/Site: Former Port Mobil

Job ID: 460-348810-1

GC Semi VOA (Continued)

Analysis Batch: 1101966 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-348810-16	AST04-ISS12_0-6	Total/NA	Solid	8081B	1101787
460-348810-17	AST04-ISS13_0-6	Total/NA	Solid	8081B	1101787
460-348810-18	AST04-ISS14_0-7	Total/NA	Solid	8081B	1101787
MB 460-1101787/1-A	Method Blank	Total/NA	Solid	8081B	1101787
LCS 460-1101787/2-A	Lab Control Sample	Total/NA	Solid	8081B	1101787
LCSD 460-1101787/3-A	Lab Control Sample Dup	Total/NA	Solid	8081B	1101787
460-348801-B-1-F MS	Matrix Spike	Total/NA	Solid	8081B	1101787
460-348801-B-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8081B	1101787

Analysis Batch: 1102005

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 460-1101784/1-A	Method Blank	Total/NA	Solid	8082A	1101784
LCS 460-1101784/2-A	Lab Control Sample	Total/NA	Solid	8082A	1101784
LCSD 460-1101784/3-A	Lab Control Sample Dup	Total/NA	Solid	8082A	1101784

Analysis Batch: 1102182

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-348810-15	AST04-ISS11_0-5	Total/NA	Solid	8082A	1101784
460-348810-16	AST04-ISS12_0-6	Total/NA	Solid	8082A	1101784
460-348810-17	AST04-ISS13_0-6	Total/NA	Solid	8082A	1101784
460-348810-18	AST04-ISS14_0-7	Total/NA	Solid	8082A	1101784
460-348801-B-1-C MS	Matrix Spike	Total/NA	Solid	8082A	1101784
460-348801-B-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8082A	1101784

LCMS

Analysis Batch: 801092

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 410-801581/1-A	Method Blank	Total/NA	Solid	1633A	801581
LCS 410-801581/2-A	Lab Control Sample	Total/NA	Solid	1633A	801581
LLCS 410-801581/3-A	Lab Control Sample	Total/NA	Solid	1633A	801581

Prep Batch: 801581

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-348810-15	AST04-ISS11_0-5	Total/NA	Solid	1633A	
460-348810-16	AST04-ISS12_0-6	Total/NA	Solid	1633A	
460-348810-17	AST04-ISS13_0-6	Total/NA	Solid	1633A	
460-348810-18	AST04-ISS14_0-7	Total/NA	Solid	1633A	
MB 410-801581/1-A	Method Blank	Total/NA	Solid	1633A	
LCS 410-801581/2-A	Lab Control Sample	Total/NA	Solid	1633A	
LLCS 410-801581/3-A	Lab Control Sample	Total/NA	Solid	1633A	

Analysis Batch: 802721

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-348810-15	AST04-ISS11_0-5	Total/NA	Solid	1633A	801581
460-348810-16	AST04-ISS12_0-6	Total/NA	Solid	1633A	801581

Analysis Batch: 803471

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-348810-17	AST04-ISS13_0-6	Total/NA	Solid	1633A	801581
460-348810-18	AST04-ISS14_0-7	Total/NA	Solid	1633A	801581

Eurofins Edison

QC Association Summary

Client: Haley & Aldrich Inc
Project/Site: Former Port Mobil

Job ID: 460-348810-1

Metals

Prep Batch: 1101835

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-348810-15	AST04-ISS11_0-5	Total/NA	Solid	3050B	
460-348810-16	AST04-ISS12_0-6	Total/NA	Solid	3050B	
460-348810-17	AST04-ISS13_0-6	Total/NA	Solid	3050B	
460-348810-18	AST04-ISS14_0-7	Total/NA	Solid	3050B	
MB 460-1101835/1-A	Method Blank	Total/NA	Solid	3050B	
LCSSRM 460-1101835/2-A	Lab Control Sample	Total/NA	Solid	3050B	
460-348815-A-1-D MS	Matrix Spike	Total/NA	Solid	3050B	
460-348815-A-1-C DU	Duplicate	Total/NA	Solid	3050B	

Analysis Batch: 1102145

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-348810-15	AST04-ISS11_0-5	Total/NA	Solid	6020B	1101835
460-348810-16	AST04-ISS12_0-6	Total/NA	Solid	6020B	1101835
460-348810-17	AST04-ISS13_0-6	Total/NA	Solid	6020B	1101835
460-348810-18	AST04-ISS14_0-7	Total/NA	Solid	6020B	1101835
MB 460-1101835/1-A	Method Blank	Total/NA	Solid	6020B	1101835
LCSSRM 460-1101835/2-A	Lab Control Sample	Total/NA	Solid	6020B	1101835
460-348815-A-1-D MS	Matrix Spike	Total/NA	Solid	6020B	1101835
460-348815-A-1-C DU	Duplicate	Total/NA	Solid	6020B	1101835

Prep Batch: 1102522

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-348810-15	AST04-ISS11_0-5	Total/NA	Solid	7471B	
460-348810-16	AST04-ISS12_0-6	Total/NA	Solid	7471B	
460-348810-17	AST04-ISS13_0-6	Total/NA	Solid	7471B	
460-348810-18	AST04-ISS14_0-7	Total/NA	Solid	7471B	
MB 460-1102522/1-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 460-1102522/2-A	Lab Control Sample	Total/NA	Solid	7471B	
460-348989-B-1-O MS	Matrix Spike	Total/NA	Solid	7471B	
460-348989-B-1-P MSD	Matrix Spike Duplicate	Total/NA	Solid	7471B	
460-348989-B-1-N DU	Duplicate	Total/NA	Solid	7471B	

Analysis Batch: 1102656

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-348810-15	AST04-ISS11_0-5	Total/NA	Solid	7471B	1102522
460-348810-16	AST04-ISS12_0-6	Total/NA	Solid	7471B	1102522
460-348810-17	AST04-ISS13_0-6	Total/NA	Solid	7471B	1102522
460-348810-18	AST04-ISS14_0-7	Total/NA	Solid	7471B	1102522
MB 460-1102522/1-A	Method Blank	Total/NA	Solid	7471B	1102522
LCSSRM 460-1102522/2-A	Lab Control Sample	Total/NA	Solid	7471B	1102522
460-348989-B-1-O MS	Matrix Spike	Total/NA	Solid	7471B	1102522
460-348989-B-1-P MSD	Matrix Spike Duplicate	Total/NA	Solid	7471B	1102522
460-348989-B-1-N DU	Duplicate	Total/NA	Solid	7471B	1102522

General Chemistry

Analysis Batch: 1101588

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-348810-1	AST04-ISS11_A	Total/NA	Solid	Moisture	
460-348810-2	AST04-ISS11_B	Total/NA	Solid	Moisture	
460-348810-3	AST04-ISS11_C	Total/NA	Solid	Moisture	

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QC Association Summary

Client: Haley & Aldrich Inc
Project/Site: Former Port Mobil

Job ID: 460-348810-1

General Chemistry (Continued)

Analysis Batch: 1101588 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-348810-4	AST04-ISS12_A	Total/NA	Solid	Moisture	
460-348810-5	AST04-ISS12_B	Total/NA	Solid	Moisture	
460-348810-6	AST04-ISS12_C	Total/NA	Solid	Moisture	
460-348810-7	AST04-ISS12_D	Total/NA	Solid	Moisture	
460-348810-8	AST04-ISS13_A	Total/NA	Solid	Moisture	
460-348810-9	AST04-ISS13_B	Total/NA	Solid	Moisture	
460-348810-10	AST04-ISS13_C	Total/NA	Solid	Moisture	
460-348810-11	AST04-ISS14_A	Total/NA	Solid	Moisture	
460-348810-12	AST04-ISS14_B	Total/NA	Solid	Moisture	
460-348810-13	AST04-ISS14_C	Total/NA	Solid	Moisture	
460-348810-14	AST04-ISS14_D	Total/NA	Solid	Moisture	
460-348741-B-1 MS	Matrix Spike	Total/NA	Solid	Moisture	
460-348741-B-1 MSD	Matrix Spike Duplicate	Total/NA	Solid	Moisture	
460-348340-D-4 DU	Duplicate	Total/NA	Solid	Moisture	
460-348628-A-1 DU	Duplicate	Total/NA	Solid	Moisture	

Analysis Batch: 1101630

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-348810-15	AST04-ISS11_0-5	Total/NA	Solid	Moisture	
460-348810-16	AST04-ISS12_0-6	Total/NA	Solid	Moisture	
460-348810-17	AST04-ISS13_0-6	Total/NA	Solid	Moisture	
460-348810-18	AST04-ISS14_0-7	Total/NA	Solid	Moisture	
460-348805-A-39 DU	Duplicate	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Haley & Aldrich Inc
Project/Site: Former Port Mobil

Job ID: 460-348810-1

Client Sample ID: AST04-ISS11_A

Lab Sample ID: 460-348810-1

Date Collected: 04/14/26 13:32

Matrix: Solid

Date Received: 04/14/26 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	1101588	CJC	EET EDI	04/15/26 16:45

Client Sample ID: AST04-ISS11_A

Lab Sample ID: 460-348810-1

Date Collected: 04/14/26 13:32

Matrix: Solid

Date Received: 04/14/26 16:45

Percent Solids: 93.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1101612	AIN	EET EDI	04/15/26 17:33
Total/NA	Analysis	8260D		50	1102402	KLB	EET EDI	04/19/26 10:49

Client Sample ID: AST04-ISS11_B

Lab Sample ID: 460-348810-2

Date Collected: 04/14/26 13:35

Matrix: Solid

Date Received: 04/14/26 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	1101588	CJC	EET EDI	04/15/26 16:46

Client Sample ID: AST04-ISS11_B

Lab Sample ID: 460-348810-2

Date Collected: 04/14/26 13:35

Matrix: Solid

Date Received: 04/14/26 16:45

Percent Solids: 96.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1101612	AIN	EET EDI	04/15/26 17:33
Total/NA	Analysis	8260D		50	1102402	KLB	EET EDI	04/19/26 11:14

Client Sample ID: AST04-ISS11_C

Lab Sample ID: 460-348810-3

Date Collected: 04/14/26 13:38

Matrix: Solid

Date Received: 04/14/26 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	1101588	CJC	EET EDI	04/15/26 16:46

Client Sample ID: AST04-ISS11_C

Lab Sample ID: 460-348810-3

Date Collected: 04/14/26 13:38

Matrix: Solid

Date Received: 04/14/26 16:45

Percent Solids: 88.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1101613	AIN	EET EDI	04/15/26 17:43
Total/NA	Analysis	8260D		1	1102111	AAT	EET EDI	04/17/26 23:06

Client Sample ID: AST04-ISS12_A

Lab Sample ID: 460-348810-4

Date Collected: 04/14/26 13:42

Matrix: Solid

Date Received: 04/14/26 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	1101588	CJC	EET EDI	04/15/26 16:46

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Lab Chronicle

Client: Haley & Aldrich Inc
Project/Site: Former Port Mobil

Job ID: 460-348810-1

Client Sample ID: AST04-ISS12_A

Lab Sample ID: 460-348810-4

Date Collected: 04/14/26 13:42

Matrix: Solid

Date Received: 04/14/26 16:45

Percent Solids: 86.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1101613	AIN	EET EDI	04/15/26 17:44
Total/NA	Analysis	8260D		1	1102111	AAT	EET EDI	04/17/26 22:43

Client Sample ID: AST04-ISS12_B

Lab Sample ID: 460-348810-5

Date Collected: 04/14/26 13:44

Matrix: Solid

Date Received: 04/14/26 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	1101588	CJC	EET EDI	04/15/26 16:46

Client Sample ID: AST04-ISS12_B

Lab Sample ID: 460-348810-5

Date Collected: 04/14/26 13:44

Matrix: Solid

Date Received: 04/14/26 16:45

Percent Solids: 82.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1101613	AIN	EET EDI	04/15/26 17:44
Total/NA	Analysis	8260D		1	1102111	AAT	EET EDI	04/17/26 22:19

Client Sample ID: AST04-ISS12_C

Lab Sample ID: 460-348810-6

Date Collected: 04/14/26 13:46

Matrix: Solid

Date Received: 04/14/26 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	1101588	CJC	EET EDI	04/15/26 16:46

Client Sample ID: AST04-ISS12_C

Lab Sample ID: 460-348810-6

Date Collected: 04/14/26 13:46

Matrix: Solid

Date Received: 04/14/26 16:45

Percent Solids: 85.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1101613	AIN	EET EDI	04/15/26 17:45
Total/NA	Analysis	8260D		1	1102111	AAT	EET EDI	04/17/26 21:56

Client Sample ID: AST04-ISS12_D

Lab Sample ID: 460-348810-7

Date Collected: 04/14/26 13:48

Matrix: Solid

Date Received: 04/14/26 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	1101588	CJC	EET EDI	04/15/26 16:46

Lab Chronicle

Client: Haley & Aldrich Inc
Project/Site: Former Port Mobil

Job ID: 460-348810-1

Client Sample ID: AST04-ISS12_D

Lab Sample ID: 460-348810-7

Date Collected: 04/14/26 13:48

Matrix: Solid

Date Received: 04/14/26 16:45

Percent Solids: 87.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1101613	AIN	EET EDI	04/15/26 17:46
Total/NA	Analysis	8260D		1	1101958	EMM	EET EDI	04/17/26 13:49

Client Sample ID: AST04-ISS13_A

Lab Sample ID: 460-348810-8

Date Collected: 04/14/26 13:52

Matrix: Solid

Date Received: 04/14/26 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	1101588	CJC	EET EDI	04/15/26 16:46

Client Sample ID: AST04-ISS13_A

Lab Sample ID: 460-348810-8

Date Collected: 04/14/26 13:52

Matrix: Solid

Date Received: 04/14/26 16:45

Percent Solids: 85.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1101613	AIN	EET EDI	04/15/26 17:46
Total/NA	Analysis	8260D		1	1101958	EMM	EET EDI	04/17/26 14:13

Client Sample ID: AST04-ISS13_B

Lab Sample ID: 460-348810-9

Date Collected: 04/14/26 13:55

Matrix: Solid

Date Received: 04/14/26 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	1101588	CJC	EET EDI	04/15/26 16:46

Client Sample ID: AST04-ISS13_B

Lab Sample ID: 460-348810-9

Date Collected: 04/14/26 13:55

Matrix: Solid

Date Received: 04/14/26 16:45

Percent Solids: 89.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1101613	AIN	EET EDI	04/15/26 17:47
Total/NA	Analysis	8260D		1	1101958	EMM	EET EDI	04/17/26 14:36

Client Sample ID: AST04-ISS13_C

Lab Sample ID: 460-348810-10

Date Collected: 04/14/26 13:58

Matrix: Solid

Date Received: 04/14/26 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	1101588	CJC	EET EDI	04/15/26 16:46

Lab Chronicle

Client: Haley & Aldrich Inc
Project/Site: Former Port Mobil

Job ID: 460-348810-1

Client Sample ID: AST04-ISS13_C

Lab Sample ID: 460-348810-10

Date Collected: 04/14/26 13:58

Matrix: Solid

Date Received: 04/14/26 16:45

Percent Solids: 88.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1101613	AIN	EET EDI	04/15/26 17:48
Total/NA	Analysis	8260D		1	1101958	EMM	EET EDI	04/17/26 14:59

Client Sample ID: AST04-ISS14_A

Lab Sample ID: 460-348810-11

Date Collected: 04/14/26 14:02

Matrix: Solid

Date Received: 04/14/26 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	1101588	CJC	EET EDI	04/15/26 16:46

Client Sample ID: AST04-ISS14_A

Lab Sample ID: 460-348810-11

Date Collected: 04/14/26 14:02

Matrix: Solid

Date Received: 04/14/26 16:45

Percent Solids: 83.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1101613	AIN	EET EDI	04/15/26 17:48
Total/NA	Analysis	8260D		1	1101958	EMM	EET EDI	04/17/26 15:22

Client Sample ID: AST04-ISS14_B

Lab Sample ID: 460-348810-12

Date Collected: 04/14/26 14:04

Matrix: Solid

Date Received: 04/14/26 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	1101588	CJC	EET EDI	04/15/26 16:46

Client Sample ID: AST04-ISS14_B

Lab Sample ID: 460-348810-12

Date Collected: 04/14/26 14:04

Matrix: Solid

Date Received: 04/14/26 16:45

Percent Solids: 94.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1101613	AIN	EET EDI	04/15/26 17:49
Total/NA	Analysis	8260D		1	1102111	AAT	EET EDI	04/17/26 23:29

Client Sample ID: AST04-ISS14_C

Lab Sample ID: 460-348810-13

Date Collected: 04/14/26 14:06

Matrix: Solid

Date Received: 04/14/26 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	1101588	CJC	EET EDI	04/15/26 16:46

Lab Chronicle

Client: Haley & Aldrich Inc
Project/Site: Former Port Mobil

Job ID: 460-348810-1

Client Sample ID: AST04-ISS14_C

Lab Sample ID: 460-348810-13

Date Collected: 04/14/26 14:06

Matrix: Solid

Date Received: 04/14/26 16:45

Percent Solids: 94.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1101613	AIN	EET EDI	04/15/26 17:50
Total/NA	Analysis	8260D		1	1102111	AAT	EET EDI	04/17/26 21:10

Client Sample ID: AST04-ISS14_D

Lab Sample ID: 460-348810-14

Date Collected: 04/14/26 14:08

Matrix: Solid

Date Received: 04/14/26 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	1101588	CJC	EET EDI	04/15/26 16:46

Client Sample ID: AST04-ISS14_D

Lab Sample ID: 460-348810-14

Date Collected: 04/14/26 14:08

Matrix: Solid

Date Received: 04/14/26 16:45

Percent Solids: 91.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1101613	AIN	EET EDI	04/15/26 17:50
Total/NA	Analysis	8260D		1	1102111	AAT	EET EDI	04/17/26 21:33

Client Sample ID: AST04-ISS11_0-5

Lab Sample ID: 460-348810-15

Date Collected: 04/14/26 13:30

Matrix: Solid

Date Received: 04/14/26 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	1101630	CJC	EET EDI	04/15/26 19:54

Client Sample ID: AST04-ISS11_0-5

Lab Sample ID: 460-348810-15

Date Collected: 04/14/26 13:30

Matrix: Solid

Date Received: 04/14/26 16:45

Percent Solids: 84.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			1101641	GXY	EET EDI	04/15/26 21:44
Total/NA	Analysis	8270E		1	1101665	MDJ	EET EDI	04/16/26 09:49
Total/NA	Prep	3546			1101787	OTS	EET EDI	04/16/26 10:13
Total/NA	Analysis	8081B		1	1101966	FAM	EET EDI	04/17/26 13:03
Total/NA	Prep	3546			1101784	OTS	EET EDI	04/16/26 10:09
Total/NA	Analysis	8082A		1	1102182	AAA	EET EDI	04/18/26 22:01
Total/NA	Prep	1633A			801581	D5RZ	ELLE	04/16/26 14:24
Total/NA	Analysis	1633A		1	802721	VGQ7	ELLE	04/18/26 23:28
Total/NA	Prep	3050B			1101835	MXF	EET EDI	04/16/26 14:02
Total/NA	Analysis	6020B		1	1102145	CDC	EET EDI	04/17/26 11:46
Total/NA	Prep	7471B			1102522	TJS	EET EDI	04/20/26 02:12
Total/NA	Analysis	7471B		1	1102656	TJS	EET EDI	04/20/26 12:16

Lab Chronicle

Client: Haley & Aldrich Inc
Project/Site: Former Port Mobil

Job ID: 460-348810-1

Client Sample ID: AST04-ISS12_0-6

Lab Sample ID: 460-348810-16

Date Collected: 04/14/26 13:40

Matrix: Solid

Date Received: 04/14/26 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	1101630	CJC	EET EDI	04/15/26 19:54

Client Sample ID: AST04-ISS12_0-6

Lab Sample ID: 460-348810-16

Date Collected: 04/14/26 13:40

Matrix: Solid

Date Received: 04/14/26 16:45

Percent Solids: 81.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			1101641	GXY	EET EDI	04/15/26 21:44
Total/NA	Analysis	8270E		1	1101665	MDJ	EET EDI	04/16/26 10:07
Total/NA	Prep	3546			1101787	OTS	EET EDI	04/16/26 10:13
Total/NA	Analysis	8081B		1	1101966	FAM	EET EDI	04/17/26 13:16
Total/NA	Prep	3546			1101784	OTS	EET EDI	04/16/26 10:09
Total/NA	Analysis	8082A		1	1102182	AAA	EET EDI	04/18/26 22:18
Total/NA	Prep	1633A			801581	D5RZ	ELLE	04/16/26 14:24
Total/NA	Analysis	1633A		1	802721	VGQ7	ELLE	04/18/26 23:42
Total/NA	Prep	3050B			1101835	MXF	EET EDI	04/16/26 14:02
Total/NA	Analysis	6020B		1	1102145	CDC	EET EDI	04/17/26 11:48
Total/NA	Prep	7471B			1102522	TJS	EET EDI	04/20/26 02:12
Total/NA	Analysis	7471B		1	1102656	TJS	EET EDI	04/20/26 12:19

Client Sample ID: AST04-ISS13_0-6

Lab Sample ID: 460-348810-17

Date Collected: 04/14/26 13:50

Matrix: Solid

Date Received: 04/14/26 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	1101630	CJC	EET EDI	04/15/26 19:54

Client Sample ID: AST04-ISS13_0-6

Lab Sample ID: 460-348810-17

Date Collected: 04/14/26 13:50

Matrix: Solid

Date Received: 04/14/26 16:45

Percent Solids: 86.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			1101641	GXY	EET EDI	04/15/26 21:44
Total/NA	Analysis	8270E		1	1101665	MDJ	EET EDI	04/16/26 12:14
Total/NA	Prep	3546			1101787	OTS	EET EDI	04/16/26 10:13
Total/NA	Analysis	8081B		1	1101966	FAM	EET EDI	04/17/26 13:29
Total/NA	Prep	3546			1101784	OTS	EET EDI	04/16/26 10:09
Total/NA	Analysis	8082A		1	1102182	AAA	EET EDI	04/18/26 22:36
Total/NA	Prep	1633A			801581	D5RZ	ELLE	04/16/26 14:24
Total/NA	Analysis	1633A		1	803471	LDU5	ELLE	04/20/26 19:38
Total/NA	Prep	3050B			1101835	MXF	EET EDI	04/16/26 14:02
Total/NA	Analysis	6020B		1	1102145	CDC	EET EDI	04/17/26 11:51
Total/NA	Prep	7471B			1102522	TJS	EET EDI	04/20/26 02:12
Total/NA	Analysis	7471B		1	1102656	TJS	EET EDI	04/20/26 12:22

Eurofins Edison

Lab Chronicle

Client: Haley & Aldrich Inc
Project/Site: Former Port Mobil

Job ID: 460-348810-1

Client Sample ID: AST04-ISS14_0-7

Lab Sample ID: 460-348810-18

Date Collected: 04/14/26 14:00

Matrix: Solid

Date Received: 04/14/26 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	1101630	CJC	EET EDI	04/15/26 19:54

Client Sample ID: AST04-ISS14_0-7

Lab Sample ID: 460-348810-18

Date Collected: 04/14/26 14:00

Matrix: Solid

Date Received: 04/14/26 16:45

Percent Solids: 92.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			1101641	GXY	EET EDI	04/15/26 21:44
Total/NA	Analysis	8270E		1	1101665	MDJ	EET EDI	04/16/26 09:31
Total/NA	Prep	3546			1101787	OTS	EET EDI	04/16/26 10:13
Total/NA	Analysis	8081B		1	1101966	FAM	EET EDI	04/17/26 13:42
Total/NA	Prep	3546			1101784	OTS	EET EDI	04/16/26 10:09
Total/NA	Analysis	8082A		1	1102182	AAA	EET EDI	04/18/26 22:53
Total/NA	Prep	1633A			801581	D5RZ	ELLE	04/16/26 14:24
Total/NA	Analysis	1633A		1	803471	LDU5	ELLE	04/20/26 19:51
Total/NA	Prep	3050B			1101835	MXF	EET EDI	04/16/26 14:02
Total/NA	Analysis	6020B		1	1102145	CDC	EET EDI	04/17/26 11:54
Total/NA	Prep	7471B			1102522	TJS	EET EDI	04/20/26 02:12
Total/NA	Analysis	7471B		1	1102656	TJS	EET EDI	04/20/26 12:25

Laboratory References:

EET EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Haley & Aldrich Inc
Project/Site: Former Port Mobil

Job ID: 460-348810-1

Laboratory: Eurofins Edison

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	11452	04-01-27
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8270E	3546	Solid	3 & 4 Methylphenol
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	0001.01	11-30-26
A2LA	Dept. of Energy	0001.01	11-30-26
A2LA	ISO/IEC 17025	0001.01	11-30-26
Alabama	State	43200	01-31-27
Alaska	State	PA00009	06-30-26
Alaska (UST)	State	17-027	12-30-26
Arizona	State	AZ0780	03-12-27
Arkansas DEQ	State	88-00660	08-09-26
California	State	2792	01-31-26 *
Colorado	State	PA00009	06-30-26
Connecticut	State	PH-0746	06-30-27
DE Haz. Subst. Cleanup Act (HSCA)	State	019-006 (PA cert)	01-31-27
Delaware (DW)	State	N/A	01-31-27
Florida	NELAP	E87997	06-30-26
Georgia (DW)	State	C048	01-31-27
Illinois	NELAP	200027	01-31-27
Iowa	State	361	03-01-28
Kansas	NELAP	E-10151	10-31-26
Kentucky (DW)	State	KY90088	12-31-26
Kentucky (UST)	State	0001.01	11-30-26
Kentucky (WW)	State	KY90088	12-31-26
Louisiana (All)	NELAP	02055	06-30-26
Maine	State	2019012	03-12-27
Maryland	State	100	06-30-26
Massachusetts	State	M-PA009	06-30-26
Michigan	State	9930	01-31-27
Minnesota	NELAP	042-999-487	12-31-26
Mississippi	State	023	01-31-27
Missouri	State	450	01-31-28
Montana (DW)	State	0098	01-01-27
Nebraska	State	NE-OS-32-17	01-31-27
New Hampshire	NELAP	2730	01-10-27
New Jersey	NELAP	PA011	06-30-26
New York	NELAP	10670	04-01-27
North Carolina (DW)	State	42705	07-31-26
North Carolina (WW/SW)	State	521	01-03-27
North Dakota	State	R-205	01-31-24 *
Ohio	State	87787	01-31-27

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Edison

Accreditation/Certification Summary

Client: Haley & Aldrich Inc
Project/Site: Former Port Mobil

Job ID: 460-348810-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Oklahoma	NELAP	9804	12-13-26
Oregon	NELAP	PA200001	09-11-26
Pennsylvania	NELAP	36-00037	01-31-27
Quebec Ministry of Environment and Fight against Climate Change	PALA	507	09-16-29
Rhode Island	State	LAO00338	12-31-26
South Carolina	State	89002	01-31-27
Tennessee	State	02838	01-31-27
Texas	NELAP	T104704194-23-46	08-31-26
USDA	US Federal Programs	525-22-298-19481	05-08-26
Vermont	State	VT - 36037	10-28-26
Virginia	NELAP	460182	06-14-26
Washington	State	C457	04-11-27
West Virginia (DW)	State	9906 C	01-31-27
West Virginia DEP	State	055	07-31-26
Wyoming	State	8TMS-L	01-31-27
Wyoming (UST)	A2LA	0001.01	11-30-26

Method Summary

Client: Haley & Aldrich Inc
Project/Site: Former Port Mobil

Job ID: 460-348810-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET EDI
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET EDI
8081B	Organochlorine Pesticides (GC)	SW846	EET EDI
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET EDI
1633A	Per- and Polyfluoroalkyl Substances by LC/MS/MS, 1633A	EPA	ELLE
6020B	Metals (ICP/MS)	SW846	EET EDI
7471B	Mercury (CVAA)	SW846	EET EDI
Moisture	Percent Moisture	EPA	EET EDI
1633A	Shake Extraction with SPE	EPA	ELLE
3050B	Preparation, Metals	SW846	EET EDI
3546	Microwave Extraction	SW846	EET EDI
5035	Closed System Purge and Trap	SW846	EET EDI
7471B	Preparation, Mercury	SW846	EET EDI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Haley & Aldrich Inc
Project/Site: Former Port Mobil

Job ID: 460-348810-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
460-348810-1	AST04-ISS11_A	Solid	04/14/26 13:32	04/14/26 16:45	New York
460-348810-2	AST04-ISS11_B	Solid	04/14/26 13:35	04/14/26 16:45	New York
460-348810-3	AST04-ISS11_C	Solid	04/14/26 13:38	04/14/26 16:45	New York
460-348810-4	AST04-ISS12_A	Solid	04/14/26 13:42	04/14/26 16:45	New York
460-348810-5	AST04-ISS12_B	Solid	04/14/26 13:44	04/14/26 16:45	New York
460-348810-6	AST04-ISS12_C	Solid	04/14/26 13:46	04/14/26 16:45	New York
460-348810-7	AST04-ISS12_D	Solid	04/14/26 13:48	04/14/26 16:45	New York
460-348810-8	AST04-ISS13_A	Solid	04/14/26 13:52	04/14/26 16:45	New York
460-348810-9	AST04-ISS13_B	Solid	04/14/26 13:55	04/14/26 16:45	New York
460-348810-10	AST04-ISS13_C	Solid	04/14/26 13:58	04/14/26 16:45	New York
460-348810-11	AST04-ISS14_A	Solid	04/14/26 14:02	04/14/26 16:45	New York
460-348810-12	AST04-ISS14_B	Solid	04/14/26 14:04	04/14/26 16:45	New York
460-348810-13	AST04-ISS14_C	Solid	04/14/26 14:06	04/14/26 16:45	New York
460-348810-14	AST04-ISS14_D	Solid	04/14/26 14:08	04/14/26 16:45	New York
460-348810-15	AST04-ISS11_0-5	Solid	04/14/26 13:30	04/14/26 16:45	New York
460-348810-16	AST04-ISS12_0-6	Solid	04/14/26 13:40	04/14/26 16:45	New York
460-348810-17	AST04-ISS13_0-6	Solid	04/14/26 13:50	04/14/26 16:45	New York
460-348810-18	AST04-ISS14_0-7	Solid	04/14/26 14:00	04/14/26 16:45	New York

Lab Address: 777 New Durham Road, Edison, NJ
Eurofins' services under this CoC shall be performed in accordance with the T8Cs within BSA #2025-2027-Eurofins by and between Haley & Aldrich, Inc. its subsidiaries and affiliates, and Eurofins and its named affiliates.

Client Information		Lab PM Flannery Elizabeth J		Carrier Tracking No(s):		COC No:					
Client Contact: NP Staten Island Industrial, LLC		Phone: 917 796-7383		State of Origin: NY		Page: 2 of 2					
Company: Haley & Aldrich Inc		FWSID:		Analysis Requested		Job #: 348810					
Address: 213 West 35th Street, 7th Floor		Due Date Requested:		Total Number of Containers		Preservation/Notes:					
City: New York		TAT Requested (days): Standard				A HCL B NaOH C Zn Acetate D Nitric Acid E NaHSO4 F MeOH G Amchlor H Ascorbic Acid I Ice J DI Water K EDTA L EDA Other					
State Zip: New York, 10001		Compliance Project: ☐ Yes ☒ No				M Hexane N None O AsNaO2 P Na2O4S Q Na2SO3 R Na2SO3 S H2SO4 T TSP Dodecahydrate U Acetone V MCAA W pH 4-5 Z other (specify)					
Phone: 516-317-9861		PO #: 0213836-003-002-05									
Email: sami_s@r_vald_h.com		WO #: 0213836-003-002-05									
Project Name: 41010 Arthur Kill Former Port Mobil		Project #: 46042832									
Site: 4101 Arthur Kill Road, Staten Island, NY		SSOW#:									
Sample Identification		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Wetzer, Swick, Gensel, etc.)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D TCL VOCs	6020B, 7471B, 8081B, 8082A, 8270E	1633A 1633 Standard list 40	Special Instructions/Note:
AST04-ISS14_B		4/14/2026	14:04	G	S	N	N	X			13
AST04-ISS14_C		4/14/2026	14:06	G	S	N	N	X			13
AST04-ISS14_D		4/14/2026	14:08	G	S	N	N	X			14
AST04-ISS11_0-5		4/14/2026	13:30	C	S	N	N	X			16
AST04-ISS12_0-6		4/14/2026	13:40	C	S	N	N	X			17
AST04-ISS13_0-6		4/14/2026	13:50	C	S	N	N	X			18
AST04-ISS14_0-7		4/14/2026	14:00	C	S	N	N	X			
Possible Hazard Identification		☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological									
Deliverable Requested: I, II, III, IV Other (specify)											
Empty Kit Relinquished by		Date:		Time:							
Relinquished by: <i>Bo Zaverio</i>		Date/Time: 4/14/26 16:15		Company: <i>H&A</i>		Received by: <i>Bo Zaverio</i>		Date/Time: 4/14/26 16:15		Company: <i>Bo Zaverio</i>	
Relinquished by: <i>Bo Zaverio</i>		Date/Time: 4/14/26 14:45		Company: <i>Bo Zaverio</i>		Received by: <i>Bo Zaverio</i>		Date/Time: 4/14/26 16:45		Company: <i>Bo Zaverio</i>	
Relinquished by: <i>Bo Zaverio</i>		Date/Time:		Company:		Received by:		Date/Time:		Company:	
Custody Seals Intact: ☒ Yes ☐ No		Custody Seal No. <i>NO 05</i>									

Job Number:

348810

Number of Coolers:

8

IR Gun #

2

Cooler Temperatures

	RAW	CORRECTED		RAW	CORRECTED
Cooler #1:	1.7°C	1.2°C	Cooler #4:	°C	°C
Cooler #2:	1.3°C	0.9°C	Cooler #5:	°C	°C
Cooler #3:	°C	°C	Cooler #6:	°C	°C
			Cooler #7:	°C	°C
			Cooler #8:	°C	°C
			Cooler #9:	°C	°C

[illegible]

If pH adjustments are required record the information below:

Sample No(s). adjusted.

Preservative Name/Conc.

Volume of Preservative used (ml)

Lot # of Preservative(s):

Expiration Date

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.

* Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.

9/5/2025

9/5/2025

Initials.

Date:

9241-14

15

11

12

13

15

16

1

1

1

1

Chain of Custody Record

[illegible]

Login Sample Receipt Checklist

Client: Haley & Aldrich Inc

Job Number: 460-348810-1

Login Number: 348810

List Source: Eurofins Edison

List Number: 1

Creator: Meyers, Gary

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

Login Sample Receipt Checklist

Client: Haley & Aldrich Inc

Job Number: 460-348810-1

Login Number: 348810

List Number: 2

Creator: Onate, Maggie

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Creation: 04/16/26 06:16 AM

Question	Answer	Comment
The cooler's custody seal is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature acceptable,where thermal pres is required(</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV:Container Temp acceptable,where thermal pres is required (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	

ATTACHMENT C
Data Usability Summary Report

Data Usability Summary Report (DUSR)

Project Name: Port Mobil AST4 Reuse Sampling

Project Description: Soil Samples

Sample Date(s): April 14, 2026

Analytical Laboratory: Eurofins Edison – Edison, NJ

Validation Performed by: Savannah Perno

Validation Reviewed by: Kristina Ilina

Validation Date: April 24, 2026

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1. Introduction

Haley & Aldrich of New York Engineering and Geology, LLP prepared this Data Usability Summary Report (DUSR) to summarize the review and validation of the analytical results for the Sample Delivery Group (SDG) listed.

This data validation and usability assessment was performed per the guidance and requirements established by the United States Environmental Protection Agency (USEPA) using the following reference materials:

- National Functional Guidelines (NFG) for Inorganic Data Review.
- NFG for Organic Data Review.
- Department of Defense (DoD) Quality Systems Manual (QSM) for Environmental Laboratories, Version 5.4, Table B-24.
- DoD Data Validation Guidelines Module 6: Data Validation Procedure for PFAS by QSM Table B-24.
- Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS) Under New York State Department of Environmental Conservation's (NYSDEC's) Part 375 Remedial Programs.
- NYSDEC DER-10: Technical Guidance for Site Investigation and Remediation.

Data reported in this sampling event were reported to the laboratory reporting limit (RL). Results reported between the MDL and reporting limit (RL) are flagged J as estimated.

Sample data were qualified in accordance with the laboratory's standard operating procedures (SOPs). The results presented in each laboratory report were found to be compliant with the data quality objectives (DQOs) for the project and are therefore usable; any exceptions are noted in the following pages and listed below.

All results are usable with no exceptions noted. A subset of data was qualified as estimated due to low laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) recoveries and low/high isotope dilution (internal standard) recoveries. A summary of qualifications is provided in Section 2.15.

2. Sample Delivery Group Number 460-348810-1

2.1 SAMPLE MANAGEMENT

This DUSR summarizes the review of SDG number 460-348810-1, dated April 21, 2026.

Samples were collected, preserved, and shipped following standard chain of custody (COC) protocols.

- Samples for E1633A analysis were subcontracted to Eurofins Lancaster Laboratories Environment Testing - Lancaster, PA.

Samples were also received appropriately, identified correctly, and analyzed according to the COC. Analyses were performed on the following samples:

Sample ID	Sample Type	Lab ID	Sample Date	Matrix	Methods
AST04-ISS11_A	N	460-348810-1	04/14/2026	SO	F
AST04-ISS11_B	N	460-348810-2	04/14/2026	SO	F
AST04-ISS11_C	N	460-348810-3	04/14/2026	SO	F
AST04-ISS12_A	N	460-348810-4	04/14/2026	SO	F
AST04-ISS12_B	N	460-348810-5	04/14/2026	SO	F
AST04-ISS12_C	N	460-348810-6	04/14/2026	SO	F
AST04-ISS12_D	N	460-348810-7	04/14/2026	SO	F
AST04-ISS13_A	N	460-348810-8	04/14/2026	SO	F
AST04-ISS13_B	N	460-348810-9	04/14/2026	SO	F
AST04-ISS13_C	N	460-348810-10	04/14/2026	SO	F
AST04-ISS14_A	N	460-348810-11	04/14/2026	SO	F
AST04-ISS14_B	N	460-348810-12	04/14/2026	SO	F
AST04-ISS14_C	N	460-348810-13	04/14/2026	SO	F
AST04-ISS14_D	N	460-348810-14	04/14/2026	SO	F
AST04-ISS11_0-5	N	460-348810-15	04/14/2026	SO	A, B, C, D, E, G
AST04-ISS12_0-6	N	460-348810-16	04/14/2026	SO	A, B, C, D, E, G
AST04-ISS13_0-6	N	460-348810-17	04/14/2026	SO	A, B, C, D, E, G
AST04-ISS14_0-7	N	460-348810-18	04/14/2026	SO	A, B, C, D, E, G

Method Holding Times			
A.	E1633A	PFAS	14 days extraction / 40 days analysis for solid, unpreserved
B.	SW6020B	Metals	180 days for solid unpreserved
C.	SW7471B	Mercury (in Solids)	28 days for solid unpreserved
D.	SW8081B	Organochlorine Pesticides	14 days extraction / 40 days analysis for solid, unpreserved
E.	SW8082A	Polychlorinated Biphenyls (PCBs)	1 year extraction / 40 days analysis for solid, unpreserved
F.	SW8260D	Volatile Organic Compounds (VOCs)	14 days for solid, preserved 14 days for solid unpreserved

Method Holding Times			
G.	SW8270E	Semi-volatile Organic Compounds (SVOCs)	14 days extraction / 40 days analysis for solid, unpreserved

**# days/# days notation indicates the holding time is # days for extraction and then an additional # days for analysis.*

***Holding time specified by NYSDEC Guidance.*

2.2 CASE NARRATIVE

The laboratory report case narrative lists various additional quality control issues, such as internal standard exceedances and initial calibration verification (ICV) and/or continuing calibration verification (CCV) exceedances. Since these additional quality control issues were not required for the project's DQOs, these quality control issues were not reviewed.

2.3 HOLDING TIMES/PRESERVATION

The samples arrived at the laboratory in good condition, at the proper temperature, and were prepared and analyzed within the holding time and preservation criteria specified per method protocol.

Cooler temperatures on arrival to the laboratory were 0.9 and 1.2 degrees Celsius (°C).

2.4 REPORTING LIMITS AND SAMPLE DILUTIONS

All sample dilutions were reviewed and found to be justified. Dilution of the project samples was required to bring calibration of target analytes within calibration range. Elevated RLs are provided.

2.5 REPORTING BASIS (WET/DRY)

Refer to Section E 1.1. Soil data in this SDG were reported on a dry-weight basis. Percent solid results were reviewed and found to be within limits.

2.6 SURROGATE RECOVERY COMPLIANCE

Refer to Section E 1.2. The percent recovery (%R) for each surrogate compound added to each project sample was determined to be within the laboratory-specified quality control limits. No additional qualification of the reported results is recommended.

2.7 BLANK SAMPLE ANALYSIS

Refer to Section E 1.3. Method blank samples had no detections, indicating that no contamination from laboratory activities occurred.

2.8 LABORATORY CONTROL SAMPLES

Refer to Section E 1.4. Compounds associated with the low-level laboratory control sample (LLCS) and the LCS/LCSD analyses associated with client samples exhibited recoveries and relative percent differences (RPDs) within the specified limits, with the following exceptions:

Sample Type	Method	Batch ID	Analyte	%R	Qualifier	Affected Samples
LCS/LCSD	SW8260D	1101958	Chloromethane	132%/134%	J/None	None, samples are non-detect (ND)
LCS/LCSD			Methyl acetate	124%/121%	J/None	
LCS		1102111	1,1-Dichloroethane	121%	J/None	None, samples are non-detect (ND)
LCS			1,2-Dichloropropane	125%	J/None	
LCS			Chloromethane	126%	J/None	
LCS/LCSD			Methyl acetate	126%/129%	J/None	
LCS/LCSD		1102402	Trichloroethene	76%/76%	J/UJ	AST04-ISS11_A and AST04-ISS11_B
LCSD			Methyl tert-butyl ether	70%	J/UJ	
LCSD			Methylene Chloride	67%	J/UJ	

2.9 MATRIX SPIKE SAMPLES

Refer to Section E 1.5. No client samples were used for matrix spike/matrix spike duplicate (MS/MSD) analysis in this SDG.

2.10 DUPLICATE SAMPLE ANALYSIS

Refer to Section E 1.6. No client samples were used for laboratory duplicate analysis.

2.11 PRECISION AND ACCURACY

Refer to Section E 1.7. Where required by the method, some measurement of analytical accuracy and precision was reported for each method with the site samples.

2.12 PFAS SAMPLE PREPARATION

Refer to Section E 1.8. The laboratory's SOP was reviewed, and the reviewer confirmed it is the laboratory's procedure to use solid-phase extraction (SPE) for sample preparation.

2.13 PFAS IDENTIFICATION

Refer to Section E 1.9. Ion ratios could not be reviewed because the laboratory did not provide an ion ratio summary. However, this lab typically qualifies data impacted by ion ratio exceedance with an "I" flag. As no data was qualified, it can be assumed ion ratios were within limits.

2.14 EXTRACTION INTERNAL STANDARDS

Refer to Section E 1.10. Recoveries were reviewed and found to be within the limits of 50 to 150 percent of the initial calibration (ICAL) midpoint standard/initial CCV, with the following exceptions:

Sample ID	Lab ID	Standard Name	%Recovery	Qualifier	Target analytes
AST04- ISS11_0-5	460-348810- 15	1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (13C2-8:2 FTS)	253	J/UJ	FtS 8:2
AST04- ISS12_0-6	460-348810- 16	N-Ethyl-N-(2-hydroxyethyl)perfluorooctylsulphonamide-d9	43.6	J/UJ	N-EtFOSE
		N-methylperfluorooctane sulfonamidoethanol (d7-N-MeFOSE-M)(IDA)	48.8	J/UJ	N-MeFOSE
		1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (13C2-4:2 FTS)	169	J/UJ	FtS 4:2
		1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (13C2-8:2 FTS)	213	J/UJ	FtS 8:2
AST04- ISS13_0-6	460-348810- 17	N-Ethyl-N-(2-hydroxyethyl)perfluorooctylsulphonamide-d9	41.6	J/UJ	N-EtFOSE
		N-methylperfluorooctane sulfonamidoethanol (d7-N-MeFOSE-M)(IDA)	48.9	J/UJ	N-MeFOSE
		1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (13C2-4:2 FTS)	165	J/UJ	FtS 4:2

Extraction internal standards recoveries were out of limits for MBs, LCS, MS and/or MSD, but did not affect the data.

2.15 SYSTEM PERFORMANCE AND OVERALL ASSESSMENT

The results presented in this report were found to comply with the DQOs for the project and the guidelines specified by the analytical method. Based on the review of this report, the data are useable and acceptable, as no data were rejected. The qualifiers applied to this dataset are summarized in the table below.

Sample ID	Analyte	Reported Result	Validated Result	Reason for Qualifier
AST04-ISS11_A	Trichloroethene	ND U	ND UJ	Low LCS/LCSD %Recovery
AST04-ISS11_B		ND U	ND UJ	
AST04-ISS11_A	Methyl tert-butyl ether	ND U	ND UJ	Low LCSD %Recovery
AST04-ISS11_B		ND U	ND UJ	
AST04-ISS11_A	Methylene Chloride	ND U	ND UJ	
AST04-ISS11_B		ND U	ND UJ	
AST04-ISS11_0-5	FtS 8:2	ND U	ND UJ	Isotope dilution outside recovery limits
AST04-ISS12_0-6	N-EtFOSE	ND U	ND UJ	
AST04-ISS12_0-6	N-MeFOSE	ND U	ND UJ	
AST04-ISS12_0-6	FtS 4:2	ND U	ND UJ	
AST04-ISS12_0-6	FtS 8:2	ND U	ND UJ	
AST04-ISS13_0-6	N-EtFOSE	ND U	ND UJ	
AST04-ISS13_0-6	N-MeFOSE	ND U	ND UJ	
AST04-ISS13_0-6	FtS 4:2	ND U	ND UJ	

3. Explanations

The following explanations include more detailed information regarding each of the sections in the DUSR above. Not all sections in the Explanations are represented:

- E 1.1 Reporting Basis (Wet/Dry)
 - Soil samples can be reported on either a wet (as received) or dry-weight basis. Dry weight data indicate calculations were made to compensate for the moisture content of the soil sample.
 - Percent (%) solids should be appropriately considered when evaluating analytical results for non-aqueous samples. Sediments with high moisture content may or may not be successfully analyzed by routine analytical methods. Samples should be greater than or equal to 30 percent solids to be appropriately quantified.
- E 1.2 Surrogate Recovery Compliance
 - Surrogates, also known as system monitoring compounds, are compounds added to each sample prior to sample preparation to determine the efficiency of the extraction procedure by evaluating the %R of the compounds.
- E 1.3 Blank Sample Analysis
 - Method blanks are prepared by the analytical laboratory and analyzed concurrently with the project samples to assess possible laboratory contamination.
 - Analysis of PFAS compliant with QSM 5.3 Table B-15 requires instrument blanks that are prepared by the analytical laboratory and analyzed concurrently with the project samples to assess contamination that could occur in the LC/MS/MS instrument.
- E 1.4 Laboratory Control Samples
 - The LCS/LCSD analyses are used to assess the precision and accuracy of the analytical method independent of matrix interferences.
- E 1.5 Matrix Spike Samples
 - MS/MSD data are used to assess the precision and accuracy of the analytical method and evaluate the effects of the sample matrix on the sample preparation procedures and measurement methodologies.
- E 1.6 Laboratory Duplicate Sample Analysis
 - The laboratory duplicate sample analysis is used by the laboratory at the time of the analysis to demonstrate acceptable method precision. The RPD or absolute difference was evaluated for each duplicate sample pair to monitor the reproducibility of the data.
- E 1.7 Precision and Accuracy
 - Precision measures the reproducibility of repetitive measurements. In a laboratory environment, this will be measured by determining the RPD found between a primary and a duplicate sample. This can be an LCS/LCSD pair, a MS/MSD pair, a laboratory duplicate performed on a site sample, or a field duplicate collected and analyzed concurrently with a site sample.

- Accuracy is a statistical measurement of the correctness of a measured value and includes components of random error (variability caused by imprecision) and systematic error. In a laboratory environment, this will be measured by determining the %R of certain spiked compounds. This can be assessed using LCS, blank spike (BS), MS, and/or surrogate recoveries.
- E 1.8 PFAS Sample Preparation
 - Analysis of PFAS requires specific sample preparation. Aqueous samples must be prepared using SPE, unless samples are known to contain high PFAS concentrations or the samples are injected directly into the LC/MS/MS instrument. Samples with greater than 1 percent solids may require centrifugation prior to SPE. The entire sample plus bottle rinsate must be extracted using SPE. If high PFAS concentrations are known, the samples may alternately be prepared using serial dilution performed in duplicate. If prepared by serial dilution, there must be documented project approval for this deviation.
- E 1.9 PFAS Identification
 - Identification of PFAS requires dual confirmation. The chemical derivation of the ion transitions must be documented. A minimum of two ion transitions per analyte are required (except for PFBA and PFPeA). Ratios of the quantitation ion to the confirmation ion should be calculated for samples and be within 50 to 150 percent of the ratios of the quantitation ion to the confirmation ion for standards.
 - Identification of PFAS also requires the proper assessment of branched and linear peaks. Standards for both isomers are not currently available for every PFAS compound, resulting in the common error of quantifying the area of only the branched or the linear isomers, which results in erroneous concentrations.
- E 1.10 Extraction Internal Standards
 - Analysis of PFAS by isotope dilution includes the use of extracted internal standards, which are stable isotope analogs of the PFAS compounds of interest added to each sample prior to extraction of the sample matrix. Matrix interferences that affect the quantification of the internal standard will affect the calculated target compound concentrations. For method EPA 1633, Module 6 provides guidance for extreme recoveries. Professional judgment is used to qualify based on recovery below the method limit but above 10% and above the method limit but below 200%. Below the method limit will result in estimating the detection or non-detection; above the method limit will result in estimating the detection.

4. Glossary

*Analyte names may be abbreviated for simplicity. Please refer to the laboratory report for the full analyte name.

Not all of the following symbols, acronyms, or qualifiers occur in this document.

- Sample Types:
 - EB Equipment Blank Sample
 - FB Field Blank Sample
 - FD Field Duplicate Sample
 - N Primary Sample
 - TB Trip Blank Sample
- Units:

– ng/kg nanograms per kilogram – µg/L micrograms per liter – µg/m³ micrograms per cubic meter – mg/kg milligrams per kilogram – mg/L milligrams per liter	– ppbv/v parts per billion volume/volume – pCi/L picocuries per liter – pg/g picograms per gram – pg/L picograms per liter
--	---
- Matrices:

– AA Ambient Air – GS Soil Gas – GW/WG Groundwater – IA Indoor Air – SE Sediment – SO Soil	– SSV Sub-slab Vapor – ST Solid Waste – WM Stormwater – WQ Water Quality control matrix – WS Surface Water – WW Waste Water
---	--
- Table Footnotes:
 - NA Not applicable
 - ND Non-detect
 - NR Not reported
- Common Symbols:
 - % percent
 - < less than
 - ≤ less than or equal to
 - > greater than
 - ≥ greater than or equal to
 - = equal
 - °C degrees Celsius
 - ± plus or minus
 - ~ approximately
 - x times (multiplier)
- Fractions:
 - N Normal (method cannot be filtered)
 - D Dissolved (filtered)
 - T Total (unfiltered)

5. Abbreviations

%D	Percent Difference	MDL	Laboratory Method Detection Limit
%R	Percent Recovery	MS/MSD	Matrix Spike/Matrix Spike Duplicate
%RSD	Percent Relative Standard Deviation	NA	not applicable
%v/v	Percent volume by volume	ND	Non-Detect
2s	2 sigma	NFG	National Functional Guidelines
4,4-DDT	4 4-dichlorodiphenyltrichloroethane	NH ₃	Ammonia
Abs Diff	Absolute Difference	NYSDEC	New York State Department of Environmental Conservation
amu	atomic mass unit	PAH	Polycyclic Aromatic Hydrocarbon
BPJ	Best Professional Judgement	PCB	Polychlorinated Biphenyl
BS	Blank Spike	PDS	Post-Digestion Spike
CCB	Continuing Calibration Blank	PEM	Performance Evaluation Mixture
CCV	Continuing Calibration Verification	PFAS	Per- and Polyfluoroalkyl Substances
CCVL	Continuing Calibration Verification Low	PFBA	Perfluorobutanoic Acid
COC	Chain of Custody	PFD	Perfluorodecalin
COM	Combined Isotope Calculation	PFOA	Perfluorooctanoic Acid
Cr (VI)	Hexavalent Chromium	PFOS	Perfluorooctane sulfonate
CRI	Collision Reaction Interface	PFPeA	Perfluoropentanoic Acid
DoD	Department of Defense	QAPP	Quality Assurance Project Plan
DQO	data quality objective	QC	Quality Control
DUSR	Data Usability Summary Report	QSM	Quality Systems Manual
EIS	Extraction Internal Standard	R ²	R-squared value
EMPC	Estimated Maximum Possible Concentration	Ra-226	Radium-226
FBK	Field Blank Contamination	Ra-228	Radium-228
FDP	Field Duplicate	RESC	Resolution Check Measure
GC	Gas Chromatograph	RL	Laboratory Reporting Limit
GC/MS	Gas Chromatography/Mass Spectrometry	RPD	Relative Percent Difference
GPC	Gel Permeation Chromatography	RRF	Relative Response Factor
H ₂	Hydrogen gas	RT	Retention Time
HCl	Hydrochloric Acid	SAP	Sampling Analysis Plan
ICAL	Initial Calibration	SDG	Sample Delivery Group
ICB	Initial Calibration Blank	SIM	Selected ion monitoring
ICP/MS	Inductively Coupled Plasma/Mass Spectrometry	SOP	Standard Operating Procedure
ICV	Initial Calibration Verification	SPE	Solid-Phase Extraction
ICVL	Initial Calibration Verification Low	SVOC	Semi-Volatile Organic Compound
IPA	Isopropyl Alcohol	TCLP	Toxicity Characteristic Leaching Procedure
LC	Laboratory Control	TIC	Tentatively Identified Compound
LCS/LCSD	Laboratory Control Sample/Laboratory Control Sample Duplicate	TKN	Total Kjeldahl Nitrogen
MBK	Method Blank Contamination	TPH	Total Petroleum Hydrocarbon
MDC	Minimum Detectable Concentration	TPU	Total Propagated Uncertainty
		USEPA	U.S. Environmental Protection Agency
		VOC	Volatile Organic Compound
		WP	Work Plan

6. Qualifiers

The qualifiers below are from the USEPA NFG and the data in the DUSR may contain these qualifiers:

- Concentration (C) Qualifiers:
 - U The compound was analyzed for but not detected. The associated value is either the compound quantitation limit if not detected by the analytical instrument or could be the reported or blank concentration if qualified by blank contamination. This can also be displayed as less than the associated compound quantitation limit (<RL or <MDL), or “ND”.
 - B The compound was found in the sample and its associated blank. Its presence in the sample may be suspect.
- Quantitation (Q) Qualifiers:
 - E The compound was quantitated above the calibration range.
 - D The concentration is based on a diluted sample analysis.
- Validation Qualifiers:
 - J The compound was positively identified; however, the associated numerical value is an estimated concentration only.
 - J+ The result is an estimated quantity, but the result may be biased high.
 - J- The result is an estimated quantity, but the result may be biased low.
 - J/UJ as listed in exception tables J applies to detected data and UJ applies to non-detected data as reported by the laboratory.
 - UJ The compound was not detected. The reported sample quantitation limit is approximate.
 - NJ The analysis indicated the presence of a compound for which there is presumptive evidence to make a tentative identification; the associated numerical value is an estimated concentration only.
 - R The sample results were rejected as unusable; the compound may or may not be present in the sample.
 - S Result is suspect. See DUSR for details.

References

1. New York State Department of Environmental Conservation, 2010. Division of Environmental Remediation DER-10 Technical Guidance for Site Investigation and Remediation, Appendix 2B, Guidance for Data Deliverables and the Development of Data Usability Summary Reports.
2. New York State Department of Environmental Conservation, 2023. Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances Under NYSDEC's Part 375 Remedial Programs. April.
3. United States Department of Defense, 2021. Quality Systems Manual (QSM) for Environmental Laboratories, Version 5.4, Table B-24: Per- and Polyfluoroalkyl Substances (PFAS) Analysis by LC/MS/MS (EPA Draft Method 1633).
4. United States Department of Defense and Environmental Data Quality Workgroup, 2022. Data Validation Guidelines Module 6: Data Validation Procedure for Per- and Polyfluoroalkyl Substances Analysis by QSM Table B-24. October.
5. United States Environmental Protection Agency, 2020a. National Functional Guidelines for Inorganic Superfund Methods Data Review. EPA-542-R-20-006. November.
6. United States Environmental Protection Agency, 2020b. National Functional Guidelines for Organic Superfund Methods Data Review. EPA-540-R-20-005. November.