



ANALYTICAL REPORT

Lab Number:	L2539685
Client:	Phoenix Environmental 3525 Quakerbridge Road Suite 907 Hamilton, NJ 08619
ATTN:	Julian Antebi
Phone:	(609) 584-9001
Project Name:	RAMSEY SD
Project Number:	RAMSEY SD
Report Date:	07/03/25

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Eight Walkup Drive, Westborough, MA 01581-1019
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Project Name: RAMSEY SD
Project Number: RAMSEY SD

Lab Number: L2539685
Report Date: 07/03/25

Lab Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2539685-01	UST-S1	SOIL	RAMSEY, NJ	06/24/25 11:00	06/24/25



Project Name: RAMSEY SD
Project Number: RAMSEY SD

Lab Number: L2539685
Report Date: 07/03/25

**NJ DEP Data of Known Quality Protocols
 Conformance/Non-Conformance
 Summary Questionnaire**

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the NJDEP Data of Known Quality performance standards?	YES
1a	Were the method specified handling, preservation, and holding time requirements met?	YES
1b	EPH Method: Was the EPH Method conducted without significant modifications (see Section 11.3 of respective DKQ methods)?	N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	YES
3	Were all samples received at an appropriate temperature ($4 \pm 2^{\circ} \text{C}$)?	YES
4	Were all QA/QC performance criteria specified in the NJDEP DKQP standards achieved?	YES
5a	Were reporting limits specified or referenced on the chain-of-custody or communicated to the laboratory prior to sample receipt?	YES
5b	Were these reporting limits met?	NO
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the DKQP documents and/or site-specific QAPP?	YES
7	Are project-specific matrix spikes and/or laboratory duplicates included in this data set?	YES

Note: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1a or #1b is "No", the data package does not meet the requirements for "Data of Known Quality".



Project Name: RAMSEY SD
Project Number: RAMSEY SD

Lab Number: L2539685
Report Date: 07/03/25

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Pace Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet weight basis, unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Pace's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Pace Project Manager and made arrangements for Pace to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: RAMSEY SD**Lab Number:** L2539685**Project Number:** RAMSEY SD**Report Date:** 07/03/25**Case Narrative (continued)**

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

DKQP Related Narratives

Volatile Organics

In reference to question 5b:

L2539685-01: One or more of the target analytes did not achieve the requested regulatory limits.

SPLP Volatiles

In reference to question 5b:

L2539685-01: One or more of the target analytes did not achieve the requested regulatory limits.

Total Metals

L2539685-01: The sample has an elevated detection limit due to the dilution required by the sample matrix.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

Melissa Sturgis Melissa Sturgis

Title: Technical Director/Representative

Date: 07/03/25

QC OUTLIER SUMMARY REPORT

Project Name: RAMSEY SD

Lab Number: L2539685

Project Number: RAMSEY SD

Report Date: 07/03/25

Method	Client ID (Native ID)	Lab ID	Parameter	QC Type	Recovery/RPD (%)	QC Limits (%)	Associated Samples	Data Quality Assessment
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There are no QC Outliers associated with this report.

ORGANICS

VOLATILES

Project Name: RAMSEY SD**Lab Number:** L2539685**Project Number:** RAMSEY SD**Report Date:** 07/03/25**SAMPLE RESULTS**

Lab ID: L2539685-01

Date Collected: 06/24/25 11:00

Client ID: UST-S1

Date Received: 06/24/25

Sample Location: RAMSEY, NJ

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Extraction Method: NJ-SPLPZHEEXT-
DATA

Analytical Method: 1,1312

Analytical Date: 07/01/25 07:51

Analyst: GAR

Percent Solids: 82%

TCLP/SPLP Ext. Date: 06/25/25 08:50

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
SPLP ZHE Extraction Data by EPA 1312 - Westborough Lab						
pH, Extraction Post-Filtration	8.68		SU	-	NA	1
Sample Weight	0.025		kg	-	NA	1
Leachate Volume	0.500		l	-	NA	1

Project Name: RAMSEY SD**Lab Number:** L2539685**Project Number:** RAMSEY SD**Report Date:** 07/03/25**SAMPLE RESULTS**

Lab ID: L2539685-01

Date Collected: 06/24/25 11:00

Client ID: UST-S1

Date Received: 06/24/25

Sample Location: RAMSEY, NJ

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Analytical Method: 1,8260D

Analytical Date: 06/28/25 13:00

Analyst: MCM

Percent Solids: 82%

TCLP/SPLP Ext. Date: 06/25/25 08:50

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
SPLP Volatiles by EPA 1312 - Westborough Lab						
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,4-Dioxane	ND		ug/l	250	61.	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
Methylene chloride	ND		ug/l	2.5	0.68	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	0.50	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	0.50	0.14	1
Tetrachloroethene	ND		ug/l	0.40	0.06	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,2-Dichloroethane	ND		ug/l	0.30	0.05	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.40	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.40	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.40	0.14	1
Bromoform	ND		ug/l	2.0	0.25	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.20	0.06	1
Benzene	ND		ug/l	0.40	0.08	1
Toluene	ND		ug/l	0.75	0.20	1
Ethylbenzene	0.71		ug/l	0.50	0.17	1
Chloromethane	ND		ug/l	2.5	0.20	1
Bromomethane	ND		ug/l	1.0	0.26	1
Vinyl chloride	ND		ug/l	0.20	0.07	1
Chloroethane	ND		ug/l	1.0	0.13	1



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SAMPLE RESULTS

Lab ID: L2539685-01

Date Collected: 06/24/25 11:00

Client ID: UST-S1

Date Received: 06/24/25

Sample Location: RAMSEY, NJ

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
SPLP Volatiles by EPA 1312 - Westborough Lab						
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Trichloroethene	ND		ug/l	0.20	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
p/m-Xylene	1.3		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.39	1
Xylenes, Total	1.3		ug/l	1.0	0.33	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Styrene	ND		ug/l	1.0	0.36	1
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Isopropylbenzene	0.32	J	ug/l	0.50	0.19	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1
1,2,4-Trichlorobenzene	ND		ug/l	1.0	0.22	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	1.5	J	ug/l	10	0.27	1
Methyl cyclohexane	5.0	J	ug/l	10	0.40	1
Freon-113	ND		ug/l	2.5	0.15	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	102		70-130

Project Name: RAMSEY SD

Lab Number: L2539685

Project Number: RAMSEY SD

Report Date: 07/03/25

SAMPLE RESULTS

Lab ID: L2539685-01

Date Collected: 06/24/25 11:00

Client ID: UST-S1

Date Received: 06/24/25

Sample Location: RAMSEY, NJ

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Analytical Method: 1,8260D

Analytical Date: 06/29/25 16:16

Analyst: JIC

Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0028	0.00093	1
1,4-Dioxane	ND		mg/kg	0.075	0.033	1
1,2-Dibromoethane	ND		mg/kg	0.00093	0.00026	1
Methylene chloride	ND		mg/kg	0.0047	0.0021	1
1,1-Dichloroethane	ND		mg/kg	0.00093	0.00014	1
Chloroform	ND		mg/kg	0.0014	0.00013	1
Carbon tetrachloride	ND		mg/kg	0.00093	0.00021	1
1,2-Dichloropropane	ND		mg/kg	0.00093	0.00012	1
Dibromochloromethane	ND		mg/kg	0.00093	0.00013	1
1,1,2-Trichloroethane	ND		mg/kg	0.00093	0.00025	1
Tetrachloroethene	ND		mg/kg	0.00047	0.00018	1
Chlorobenzene	ND		mg/kg	0.00047	0.00012	1
Trichlorofluoromethane	ND		mg/kg	0.0037	0.00065	1
1,2-Dichloroethane	ND		mg/kg	0.00093	0.00024	1
1,1,1-Trichloroethane	ND		mg/kg	0.00047	0.00016	1
Bromodichloromethane	ND		mg/kg	0.00047	0.00010	1
trans-1,3-Dichloropropene	ND		mg/kg	0.00093	0.00025	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00047	0.00015	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00047	0.00015	1
Bromoform	ND		mg/kg	0.0037	0.00023	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00047	0.00015	1
Benzene	ND		mg/kg	0.00047	0.00015	1
Toluene	ND		mg/kg	0.00093	0.00051	1
Ethylbenzene	0.00040	J	mg/kg	0.00093	0.00013	1
Chloromethane	ND		mg/kg	0.0037	0.00087	1
Bromomethane	ND		mg/kg	0.0019	0.00054	1
Vinyl chloride	ND		mg/kg	0.00093	0.00031	1
Chloroethane	ND		mg/kg	0.0019	0.00042	1



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Project Number: RAMSEY SD

Report Date: 07/03/25

SAMPLE RESULTS

Lab ID: L2539685-01

Date Collected: 06/24/25 11:00

Client ID: UST-S1

Date Received: 06/24/25

Sample Location: RAMSEY, NJ

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,1-Dichloroethene	ND		mg/kg	0.00093	0.00022	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0014	0.00013	1
Trichloroethene	ND		mg/kg	0.00047	0.00013	1
1,2-Dichlorobenzene	ND		mg/kg	0.0019	0.00013	1
1,3-Dichlorobenzene	ND		mg/kg	0.0019	0.00014	1
1,4-Dichlorobenzene	ND		mg/kg	0.0019	0.00016	1
Methyl tert butyl ether	ND		mg/kg	0.0019	0.00019	1
p/m-Xylene	0.00083	J	mg/kg	0.0019	0.00052	1
o-Xylene	ND		mg/kg	0.00093	0.00027	1
Xylenes, Total	0.00083	J	mg/kg	0.00093	0.00027	1
cis-1,2-Dichloroethene	ND		mg/kg	0.00093	0.00016	1
1,2-Dichloroethene, Total	ND		mg/kg	0.00093	0.00013	1
Styrene	ND		mg/kg	0.00093	0.00018	1
Dichlorodifluoromethane	ND		mg/kg	0.0093	0.00085	1
Acetone	ND		mg/kg	0.023	0.0093	1
Carbon disulfide	ND		mg/kg	0.0093	0.0042	1
2-Butanone	ND		mg/kg	0.0093	0.0021	1
4-Methyl-2-pentanone	ND		mg/kg	0.0093	0.0012	1
2-Hexanone	ND		mg/kg	0.0093	0.0011	1
Bromochloromethane	ND		mg/kg	0.0019	0.00019	1
Isopropylbenzene	0.00016	J	mg/kg	0.00093	0.00010	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0019	0.00030	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0019	0.00025	1
Methyl Acetate	ND		mg/kg	0.0037	0.00089	1
Cyclohexane	ND		mg/kg	0.0093	0.00051	1
Methyl cyclohexane	0.0050		mg/kg	0.0037	0.00056	1
Freon-113	ND		mg/kg	0.0037	0.00065	1

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Lab Number: L2539685

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Lab ID: L2539685-01

Date Collected: 06/24/25 11:00

Client ID: UST-S1

Date Received: 06/24/25

Sample Location: RAMSEY, NJ

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						

Tentatively Identified Compounds

Total TIC Compounds	0.032	J	mg/kg			1
Unknown	0.002	J	mg/kg			1
Cyclohexane, ethyl-	0.002	NJ	mg/kg			1
Heptane, 3-methyl-	0.003	NJ	mg/kg			1
Unknown	0.003	J	mg/kg			1
Unknown	0.002	J	mg/kg			1
Heptane, 2-methyl-	0.002	NJ	mg/kg			1
Unknown Alkane	0.002	J	mg/kg			1
Unknown Benzene	0.003	J	mg/kg			1
Unknown Cyclohexane	0.002	J	mg/kg			1
Cyclohexane, 1,1,3-trimethyl-	0.003	NJ	mg/kg			1
Octane	0.002	NJ	mg/kg			1
Unknown Cyclohexane	0.005	J	mg/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	103		70-130

Project Name: RAMSEY SD

Lab Number: L2539685

Project Number: RAMSEY SD

Report Date: 07/03/25

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260D
 Analytical Date: 06/28/25 09:29
 Analyst: MCM
 TCLP/SPLP Extraction Date: 06/25/25 08:50

Extraction Date: 06/25/25 08:50

Parameter	Result	Qualifier	Units	RL	MDL
SPLP Volatiles by EPA 1312 - Westborough Lab for sample(s): 01 Batch: WG2084892-5					
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35
1,4-Dioxane	ND		ug/l	250	61.
1,2-Dibromoethane	ND		ug/l	2.0	0.19
Methylene chloride	0.72	J	ug/l	2.5	0.68
1,1-Dichloroethane	ND		ug/l	0.75	0.21
Chloroform	ND		ug/l	0.75	0.22
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	0.50	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	0.50	0.14
Tetrachloroethene	ND		ug/l	0.40	0.06
Chlorobenzene	ND		ug/l	0.50	0.18
Trichlorofluoromethane	ND		ug/l	2.5	0.16
1,2-Dichloroethane	ND		ug/l	0.30	0.05
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.40	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.40	0.14
1,3-Dichloropropene, Total	ND		ug/l	0.40	0.14
Bromoform	ND		ug/l	2.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/l	0.20	0.06
Benzene	ND		ug/l	0.40	0.08
Toluene	ND		ug/l	0.75	0.20
Ethylbenzene	ND		ug/l	0.50	0.17
Chloromethane	ND		ug/l	2.5	0.20
Bromomethane	0.27	J	ug/l	1.0	0.26
Vinyl chloride	ND		ug/l	0.20	0.07
Chloroethane	ND		ug/l	1.0	0.13
1,1-Dichloroethene	ND		ug/l	0.50	0.17



Project Name: RAMSEY SD
Project Number: RAMSEY SD

Lab Number: L2539685
Report Date: 07/03/25

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260D
 Analytical Date: 06/28/25 09:29
 Analyst: MCM
 TCLP/SPLP Extraction Date: 06/25/25 08:50

Extraction Date: 06/25/25 08:50

Parameter	Result	Qualifier	Units	RL	MDL
SPLP Volatiles by EPA 1312 - Westborough Lab for sample(s): 01 Batch: WG2084892-5					
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16
Trichloroethene	ND		ug/l	0.20	0.18
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19
Methyl tert butyl ether	ND		ug/l	1.0	0.17
p/m-Xylene	ND		ug/l	1.0	0.33
o-Xylene	ND		ug/l	1.0	0.39
Xylenes, Total	ND		ug/l	1.0	0.33
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16
Styrene	ND		ug/l	1.0	0.36
Dichlorodifluoromethane	ND		ug/l	5.0	0.24
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	0.30
2-Butanone	ND		ug/l	5.0	1.9
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42
2-Hexanone	ND		ug/l	5.0	0.52
Bromochloromethane	ND		ug/l	2.5	0.15
Isopropylbenzene	ND		ug/l	0.50	0.19
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23
1,2,4-Trichlorobenzene	ND		ug/l	1.0	0.22
Methyl Acetate	ND		ug/l	2.0	0.23
Cyclohexane	ND		ug/l	10	0.27
Methyl cyclohexane	ND		ug/l	10	0.40
Freon-113	ND		ug/l	2.5	0.15



Project Name: RAMSEY SD
Project Number: RAMSEY SD

Lab Number: L2539685
Report Date: 07/03/25

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260D
 Analytical Date: 06/28/25 09:29
 Analyst: MCM
 TCLP/SPLP Extraction Date: 06/25/25 08:50

Extraction Date: 06/25/25 08:50

Parameter	Result	Qualifier	Units	RL	MDL
SPLP Volatiles by EPA 1312 - Westborough Lab for sample(s): 01 Batch: WG2084892-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	105		70-130

Project Name: RAMSEY SD
Project Number: RAMSEY SD

Lab Number: L2539685
Report Date: 07/03/25

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260D
 Analytical Date: 06/29/25 12:48
 Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01 Batch: WG2085224-5					
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0030	0.0010
1,4-Dioxane	ND		mg/kg	0.080	0.035
1,2-Dibromoethane	ND		mg/kg	0.0010	0.00028
Methylene chloride	ND		mg/kg	0.0050	0.0023
1,1-Dichloroethane	ND		mg/kg	0.0010	0.00014
Chloroform	ND		mg/kg	0.0015	0.00014
Carbon tetrachloride	ND		mg/kg	0.0010	0.00023
1,2-Dichloropropane	ND		mg/kg	0.0010	0.00012
Dibromochloromethane	ND		mg/kg	0.0010	0.00014
1,1,2-Trichloroethane	ND		mg/kg	0.0010	0.00027
Tetrachloroethene	ND		mg/kg	0.00050	0.00020
Chlorobenzene	ND		mg/kg	0.00050	0.00013
Trichlorofluoromethane	ND		mg/kg	0.0040	0.00070
1,2-Dichloroethane	ND		mg/kg	0.0010	0.00026
1,1,1-Trichloroethane	ND		mg/kg	0.00050	0.00017
Bromodichloromethane	ND		mg/kg	0.00050	0.00011
trans-1,3-Dichloropropene	ND		mg/kg	0.0010	0.00027
cis-1,3-Dichloropropene	ND		mg/kg	0.00050	0.00016
1,3-Dichloropropene, Total	ND		mg/kg	0.00050	0.00016
Bromoform	ND		mg/kg	0.0040	0.00025
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00050	0.00017
Benzene	ND		mg/kg	0.00050	0.00017
Toluene	ND		mg/kg	0.0010	0.00054
Ethylbenzene	ND		mg/kg	0.0010	0.00014
Chloromethane	ND		mg/kg	0.0040	0.00093
Bromomethane	ND		mg/kg	0.0020	0.00058
Vinyl chloride	ND		mg/kg	0.0010	0.00034
Chloroethane	ND		mg/kg	0.0020	0.00045
1,1-Dichloroethene	ND		mg/kg	0.0010	0.00024



Project Name: RAMSEY SD
Project Number: RAMSEY SD

Lab Number: L2539685
Report Date: 07/03/25

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260D
 Analytical Date: 06/29/25 12:48
 Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01 Batch: WG2085224-5					
trans-1,2-Dichloroethene	ND		mg/kg	0.0015	0.00014
Trichloroethene	ND		mg/kg	0.00050	0.00014
1,2-Dichlorobenzene	ND		mg/kg	0.0020	0.00014
1,3-Dichlorobenzene	ND		mg/kg	0.0020	0.00015
1,4-Dichlorobenzene	ND		mg/kg	0.0020	0.00017
Methyl tert butyl ether	ND		mg/kg	0.0020	0.00020
p/m-Xylene	ND		mg/kg	0.0020	0.00056
o-Xylene	ND		mg/kg	0.0010	0.00029
Xylenes, Total	ND		mg/kg	0.0010	0.00029
cis-1,2-Dichloroethene	ND		mg/kg	0.0010	0.00018
1,2-Dichloroethene, Total	ND		mg/kg	0.0010	0.00014
Styrene	ND		mg/kg	0.0010	0.00020
Dichlorodifluoromethane	ND		mg/kg	0.010	0.00092
Acetone	ND		mg/kg	0.025	0.010
Carbon disulfide	ND		mg/kg	0.010	0.0046
2-Butanone	ND		mg/kg	0.010	0.0022
4-Methyl-2-pentanone	ND		mg/kg	0.010	0.0013
2-Hexanone	ND		mg/kg	0.010	0.0012
Bromochloromethane	ND		mg/kg	0.0020	0.00020
Isopropylbenzene	ND		mg/kg	0.0010	0.00011
1,2,3-Trichlorobenzene	ND		mg/kg	0.0020	0.00032
1,2,4-Trichlorobenzene	ND		mg/kg	0.0020	0.00027
Methyl Acetate	ND		mg/kg	0.0040	0.00095
Cyclohexane	ND		mg/kg	0.010	0.00054
Methyl cyclohexane	ND		mg/kg	0.0040	0.00060
Freon-113	ND		mg/kg	0.0040	0.00069



Project Name: RAMSEY SD
Project Number: RAMSEY SD

Lab Number: L2539685
Report Date: 07/03/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 06/29/25 12:48
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01 Batch: WG2085224-5					

Tentatively Identified Compounds

Total TIC Compounds	0.004	J	mg/kg
Unknown	0.004	J	mg/kg

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	109		70-130

Lab Control Sample Analysis **Batch Quality Control**

Project Name: RAMSEY SD

Lab Number: L2539685

Project Number: RAMSEY SD

Report Date: 07/03/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
SPLP Volatiles by EPA 1312 - Westborough Lab Associated sample(s): 01 Batch: WG2084892-3 WG2084892-4								
1,2-Dibromo-3-chloropropane	80		83		40-160	4		20
1,4-Dioxane	68		68		40-160	0		20
1,2-Dibromoethane	85		88		70-130	3		20
Methylene chloride	92		95		70-130	3		20
1,1-Dichloroethane	100		100		70-130	0		20
Chloroform	92		95		70-130	3		20
Carbon tetrachloride	95		94		70-130	1		20
1,2-Dichloropropane	97		97		70-130	0		20
Dibromochloromethane	82		85		70-130	4		20
1,1,2-Trichloroethane	86		91		70-130	6		20
Tetrachloroethene	93		95		70-130	2		20
Chlorobenzene	94		94		70-130	0		20
Trichlorofluoromethane	100		100		40-160	0		20
1,2-Dichloroethane	96		100		70-130	4		20
1,1,1-Trichloroethane	95		97		70-130	2		20
Bromodichloromethane	92		92		70-130	0		20
trans-1,3-Dichloropropene	88		90		70-130	2		20
cis-1,3-Dichloropropene	87		90		70-130	3		20
Bromoform	78		81		40-160	4		20
1,1,2,2-Tetrachloroethane	92		94		40-160	2		20
Benzene	93		95		70-130	2		20
Toluene	95		96		70-130	1		20
Ethylbenzene	98		100		70-130	2		20

Lab Control Sample Analysis **Batch Quality Control**

Project Name: RAMSEY SD

Lab Number: L2539685

Project Number: RAMSEY SD

Report Date: 07/03/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
SPLP Volatiles by EPA 1312 - Westborough Lab Associated sample(s): 01 Batch: WG2084892-3 WG2084892-4								
Chloromethane	100		100		40-160	0		20
Bromomethane	88		87		40-160	1		20
Vinyl chloride	110		110		70-130	0		20
Chloroethane	110		120		40-160	9		20
1,1-Dichloroethene	96		97		70-130	1		20
trans-1,2-Dichloroethene	93		96		70-130	3		20
Trichloroethene	93		94		70-130	1		20
1,2-Dichlorobenzene	93		95		70-130	2		20
1,3-Dichlorobenzene	95		96		70-130	1		20
1,4-Dichlorobenzene	94		95		70-130	1		20
Methyl tert butyl ether	83		84		70-130	1		20
p/m-Xylene	100		100		70-130	0		20
o-Xylene	100		100		70-130	0		20
cis-1,2-Dichloroethene	93		92		70-130	1		20
Styrene	95		95		40-160	0		20
Dichlorodifluoromethane	100		100		40-160	0		20
Acetone	74		87		40-160	16		20
Carbon disulfide	99		100		40-160	1		20
2-Butanone	74		78		40-160	5		20
4-Methyl-2-pentanone	86		88		40-160	2		20
2-Hexanone	86		93		40-160	8		20
Bromochloromethane	94		94		70-130	0		20
Isopropylbenzene	99		100		70-130	1		20

Lab Control Sample Analysis **Batch Quality Control**

Project Name: RAMSEY SD

Lab Number: L2539685

Project Number: RAMSEY SD

Report Date: 07/03/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
SPLP Volatiles by EPA 1312 - Westborough Lab Associated sample(s): 01 Batch: WG2084892-3 WG2084892-4								
1,2,3-Trichlorobenzene	88		89		70-130	1		20
1,2,4-Trichlorobenzene	88		90		70-130	2		20
Methyl Acetate	84		84		70-130	0		20
Cyclohexane	100		100		70-130	0		20
Methyl cyclohexane	98		100		70-130	2		20
Freon-113	98		100		70-130	2		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	108		107		70-130
Toluene-d8	101		105		70-130
4-Bromofluorobenzene	101		101		70-130
Dibromofluoromethane	97		98		70-130

Lab Control Sample Analysis **Batch Quality Control**

Project Name: RAMSEY SD

Lab Number: L2539685

Project Number: RAMSEY SD

Report Date: 07/03/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG2085224-3 WG2085224-4								
1,2-Dibromo-3-chloropropane	84		85		40-160	1		30
1,4-Dioxane	97		100		40-160	3		30
1,2-Dibromoethane	100		100		70-130	0		30
Methylene chloride	95		92		70-130	3		30
1,1-Dichloroethane	87		86		70-130	1		30
Chloroform	87		86		70-130	1		30
Carbon tetrachloride	91		90		70-130	1		30
1,2-Dichloropropane	97		95		70-130	2		30
Dibromochloromethane	100		99		70-130	1		30
1,1,2-Trichloroethane	96		98		70-130	2		30
Tetrachloroethene	96		95		70-130	1		30
Chlorobenzene	95		92		70-130	3		30
Trichlorofluoromethane	85		85		40-160	0		30
1,2-Dichloroethane	92		88		70-130	4		30
1,1,1-Trichloroethane	89		87		70-130	2		30
Bromodichloromethane	94		93		70-130	1		30
trans-1,3-Dichloropropene	102		102		70-130	0		30
cis-1,3-Dichloropropene	105		106		40-160	1		30
Bromoform	93		90		40-160	3		30
1,1,2,2-Tetrachloroethane	88		86		40-160	2		30
Benzene	95		94		70-130	1		30
Toluene	79		78		70-130	1		30
Ethylbenzene	92		91		70-130	1		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: RAMSEY SD

Lab Number: L2539685

Project Number: RAMSEY SD

Report Date: 07/03/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG2085224-3 WG2085224-4								
Chloromethane	82		79		40-160	4		30
Bromomethane	86		87		40-160	1		30
Vinyl chloride	85		83		70-130	2		30
Chloroethane	81		80		40-160	1		30
1,1-Dichloroethene	87		80		70-130	8		30
trans-1,2-Dichloroethene	82		84		70-130	2		30
Trichloroethene	97		94		70-130	3		30
1,2-Dichlorobenzene	97		93		70-130	4		30
1,3-Dichlorobenzene	96		94		70-130	2		30
1,4-Dichlorobenzene	98		94		70-130	4		30
Methyl tert butyl ether	106		106		70-130	0		30
p/m-Xylene	98		95		70-130	3		30
o-Xylene	97		97		70-130	0		30
cis-1,2-Dichloroethene	91		92		70-130	1		30
Styrene	101		98		40-160	3		30
Dichlorodifluoromethane	85		84		40-160	1		30
Acetone	84		89		40-160	6		30
Carbon disulfide	80		80		40-160	0		30
2-Butanone	78		83		40-160	6		30
4-Methyl-2-pentanone	92		94		40-160	2		30
2-Hexanone	78		80		40-160	3		30
Bromochloromethane	97		94		70-130	3		30
Isopropylbenzene	96		93		70-130	3		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: RAMSEY SD

Lab Number: L2539685

Project Number: RAMSEY SD

Report Date: 07/03/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG2085224-3 WG2085224-4								
1,2,3-Trichlorobenzene	106		103		70-130	3		30
1,2,4-Trichlorobenzene	106		102		70-130	4		30
Methyl Acetate	80		83		70-130	4		30
Cyclohexane	94		92		70-130	2		30
Methyl cyclohexane	90		87		70-130	3		30
Freon-113	86		90		70-130	5		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	93		93		70-130
Toluene-d8	100		98		70-130
4-Bromofluorobenzene	105		103		70-130
Dibromofluoromethane	97		95		70-130

METALS

Project Name: RAMSEY SD**Lab Number:** L2539685**Project Number:** RAMSEY SD**Report Date:** 07/03/25**SAMPLE RESULTS**

Lab ID: L2539685-01

Date Collected: 06/24/25 11:00

Client ID: UST-S1

Date Received: 06/24/25

Sample Location: RAMSEY, NJ

Field Prep: Not Specified

Sample Depth:

TCLP/SPLP Ext. Date: 06/25/25 02:56

Matrix: Soil

Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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SPLP Metals by EPA 1312 - Mansfield Lab

Lead, SPLP	0.0035	J	mg/l	0.0100	0.0027	1	07/02/25 09:15	07/02/25 10:47	EPA 3015	1,6010D	JMF
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Project Name: RAMSEY SD**Lab Number:** L2539685**Project Number:** RAMSEY SD**Report Date:** 07/03/25**SAMPLE RESULTS**

Lab ID: L2539685-01

Date Collected: 06/24/25 11:00

Client ID: UST-S1

Date Received: 06/24/25

Sample Location: RAMSEY, NJ

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	4.51	J	mg/kg	4.82	0.230	2	07/01/25 09:48	07/01/25 13:31	EPA 3050B	1,6010D	DMC



Project Name: RAMSEY SD
Project Number: RAMSEY SD

Lab Number: L2539685
Report Date: 07/03/25

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01 Batch: WG2085608-1									
Lead, Total	ND	mg/kg	2.00	0.095	1	07/01/25 09:48	07/01/25 13:25	1,6010D	DMC

Prep Information

Digestion Method: EPA 3050B

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
SPLP Metals by EPA 1312 - Mansfield Lab for sample(s): 01 Batch: WG2086164-1									
Lead, SPLP	ND	mg/l	0.0100	0.0027	1	07/02/25 09:15	07/02/25 10:38	1,6010D	JMF

Prep Information

Digestion Method: EPA 3015

TCLP/SPLP Extraction Date: 06/25/25 02:56



Lab Control Sample Analysis **Batch Quality Control**

Project Name: RAMSEY SD

Lab Number: L2539685

Project Number: RAMSEY SD

Report Date: 07/03/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG2085608-2								
Lead, Total	94		-		80-120	-		
SPLP Metals by EPA 1312 - Mansfield Lab Associated sample(s): 01 Batch: WG2086164-2								
Lead, SPLP	94		-		80-120	-		

Matrix Spike Analysis
Batch Quality Control**Project Name:** RAMSEY SD**Lab Number:** L2539685**Project Number:** RAMSEY SD**Report Date:** 07/03/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
SPLP Metals by EPA 1312 - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG2086164-3 QC Sample: L2539685-01 Client ID: UST-S1												
Lead, SPLP	0.0035J	0.53	0.513	97		-	-		75-125	-		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: RAMSEY SD
Project Number: RAMSEY SD

Lab Number: L2539685
Report Date: 07/03/25

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
SPLP Metals by EPA 1312 - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG2086164-4 QC Sample: L2539685-01 Client ID: UST-S1						
Lead, SPLP	0.0035J	0.0036J	mg/l	NC		20



INORGANICS & MISCELLANEOUS

Project Name: RAMSEY SD**Project Number:** RAMSEY SD**Lab Number:** L2539685**Report Date:** 07/03/25**SAMPLE RESULTS****Lab ID:** L2539685-01**Client ID:** UST-S1**Sample Location:** RAMSEY, NJ**Date Collected:** 06/24/25 11:00**Date Received:** 06/24/25**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.4		%	0.100	NA	1	-	06/27/25 07:57	121,2540G	RJF



Project Name: RAMSEY SD**Lab Number:** L2539685**Project Number:** RAMSEY SD**Report Date:** 07/03/25**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information**Cooler** **Custody Seal**

A Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2539685-01A	5 gram Encore Sampler	NA	NA			Y	Absent		NJ-8260HLW(14)
L2539685-01B	5 gram Encore Sampler	NA	NA			Y	Absent		NJ-8260HLW(14)
L2539685-01C	5 gram Encore Sampler	NA	NA			Y	Absent		NJ-8260HLW(14)
L2539685-01D	25 gram Encore Sampler	NA	NA			Y	Absent		NJ-SPLP-EXT-ZHE(2)
L2539685-01E	25 gram Encore Sampler	NA	NA			Y	Absent		NJ-SPLP-EXT-ZHE(2)
L2539685-01F	Metals Only-Glass 60mL/2oz unpreserved	NA	NA			Y	Absent		PB-TI(180)
L2539685-01G	Plastic 2oz unpreserved for TS	NA	NA			Y	Absent		TS(7)
L2539685-01H	Glass 250ml/8oz unpreserved	NA	NA			Y	Absent		-
L2539685-01T	Plastic 250ml HNO3 preserved Extracts	NA	NA			Y	Absent		PB-PI(180)
L2539685-01U	Vial unpreserved Extracts	NA	NA			Y	Absent		NJ-SPLP-VOA(14)
L2539685-01V	Vial unpreserved Extracts	NA	NA			Y	Absent		NJ-SPLP-VOA(14)
L2539685-01W	Vial unpreserved Extracts	NA	NA			Y	Absent		NJ-SPLP-VOA(14)
L2539685-01X	Vial MeOH preserved split	NA	NA			Y	Absent		NJ-8260HLW(14)
L2539685-01X9	Tumble Vessel	NA	NA			Y	Absent		-
L2539685-01Y	Vial Water preserved split	NA	NA			Y	Absent	25-JUN-25 07:06	NJ-8260HLW(14)
L2539685-01Z	Vial Water preserved split	NA	NA			Y	Absent	25-JUN-25 07:06	NJ-8260HLW(14)

Project Name: RAMSEY SD
Project Number: RAMSEY SD

Lab Number: L2539685
Report Date: 07/03/25

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers



Project Name: RAMSEY SD
Project Number: RAMSEY SD

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Report Date: 07/03/25

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers



Project Name: RAMSEY SD
Project Number: RAMSEY SD

Lab Number: L2539685
Report Date: 07/03/25

Data Qualifiers

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- V** - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- Z** - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name: RAMSEY SD**Lab Number:** L2539685**Project Number:** RAMSEY SD**Report Date:** 07/03/25

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Pace Analytical Services performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Pace Analytical Services shall be to re-perform the work at it's own expense. In no event shall Pace Analytical Services be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Pace Analytical Services.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Pace Analytical Services LLCFacility: **Northeast**Department: **Quality Assurance**Title: **Certificate/Approval Program Summary**ID No.: **17873**

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Certification Information**The following analytes are not included in our Primary NELAP Scope of Accreditation:****Westborough Facility – 8 Walkup Dr. Westborough, MA 01581****EPA 624.1:** m/p-xylene, o-xylene, Naphthalene**EPA 625.1:** alpha-Terpineol**EPA 8260D:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.**EPA 8270E:** NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.**SM4500:** NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.**Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048****SM 2540D:** TSS.**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

MADEP-APH.**Nonpotable Water:** EPA RSK-175 Dissolved Gases**Biological Tissue Matrix:** EPA 3050B**Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048****EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Nonpotable Water: EPA RSK-175 Dissolved Gases**The following test method is not included in our New Jersey Secondary NELAP Scope of Accreditation:****Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048****Determination of Selected Perfluorinated Alkyl Substances by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry Isotope Dilution (via Alpha SOP 23528)****The following analytes are included in our Massachusetts DEP Scope of Accreditation****Westborough Facility – 8 Walkup Dr. Westborough, MA 01581****Drinking Water****EPA 300.0:** Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B****EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.**Microbiology:** SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.**Non-Potable Water****SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH:** Ammonia-N and Kjeldahl-N, **EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300:** Chloride, Sulfate, Nitrate.**EPA 624.1:** Volatile Halocarbons & Aromatics,**EPA 608.3:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs**EPA 625.1:** SVOC (Acid/Base/Neutral Extractables).**Microbiology:** SM9223B-Colilert-QT; Enterolert-QT, EPA 1600, EPA 1603, SM9222D.**Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048****Drinking Water****EPA 200.7:** Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg. EPA 522, EPA 537.1.****Non-Potable Water****EPA 200.7:** Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.**EPA 200.8:** Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.**EPA 245.1 Hg.****SM2340B**

Pace Analytical Services LLCID No.:**17873**Facility: **Northeast**

Revision 27

Department: **Quality Assurance**

Published Date: 01/24/2025

Title: **Certificate/Approval Program Summary**

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Certification IDs:**Westborough Facility – 8 Walkup Dr. Westborough, MA 01581**

CT PH-0826, IL 200077, IN C-MA-03, KY JY98045, ME MA00086, MD 348, MA M-MA086, NH 2064, NJ MA935, NY 11148, NC (DW) 25700, NC (NPW/SCM) 666, OR MA-1316, PA 68-03671, RI LAO00065, TX T104704476, VT VT-0935, VA 460195

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048

CT PH-0825, ANAB/DoD L2474, IL 200081, IN C-MA-04, KY KY98046, LA 3090, ME MA00030, MI 9110, MN 025-999-495, NH 2062, NJ MA015, NY 11627, NC (NPW/SCM) 685, OR MA-0262, PA 68-02089, RI LAO00299, TX T-104704419, VT VT-0015, VA 460194, WA C954

Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048

ANAB/DoD L2474, ME MA01156, MN 025-999-498, NH 2249, NJ MA025, NY 12191, OR 4203, TX T104704583, VA 460311, WA C1104.

For a complete listing of analytes and methods, please contact your Project Manager.

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Date Rec'd
in Lab

L2539685
PHOENIX - NJ

☒ Same as Client Info

Is this site impacted by Petroleum? Yes ☒

Gasoline

☐ Done
☐ Lab to do
Preservation
☐ Lab to do

Sample Specific Comments
1. The sample is a 100% pure substance, as indicated by the single sharp peak in the mass spectrum. 2. The molecular ion peak is observed at m/z 100, which corresponds to the molecular weight of the compound. 3. The base peak is at m/z 43, which is a common fragment for many organic compounds. 4. The fragmentation pattern suggests a branched alkane structure. 5. The compound is likely to be 2-methylbutane, based on the mass spectral data.

JB

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Date/Time

PACE 6/24/25 14:34
 WSC 6/24/25 14:34
 M. Magaña 6/24/25 16:00
 L. Pace 6/24/25 21:05
 J. 06/24/25 23:05



Sample Delivery Group Summary

Pace Job Number : L2539685

Received : 24-JUN-2025

Reviewer : Owen Jefferson

Account Name : Phoenix Environmental

Project Number : RAMSEY SD

Project Name : RAMSEY SD

Delivery Information

Samples Delivered By : Pace Courier

Chain of Custody : Present

Cooler Information

Cooler	Seal/Seal#	Preservation	Temperature(°C)	Additional Information
A	Absent/	Ice	4.4	

Condition Information

- | | |
|--|-----|
| 1) All samples on COC received? | YES |
| 2) Extra samples received? | NO |
| 3) Are there any sample container discrepancies? | NO |
| 4) Are there any discrepancies between COC & sample labels? | NO |
| 5) Are samples in appropriate containers for requested analysis? | YES |
| 6) Are samples properly preserved for requested analysis? | YES |
| 7) Are samples within holding time for requested analysis? | YES |
| 8) All sampling equipment returned? | NA |

Volatile Organics/VPH

- | | |
|--|----|
| 1) Reagent Water Vials Frozen by Client? | NO |
|--|----|