284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

DATA PACKAGE

METALS
GC SEMI-VOLATILES
SEMI-VOLATILE ORGANICS
VOLATILE ORGANICS

PROJECT NAME : SOUTH RIVER WM REPLACEMENT

CDM SMITH

110 Fieldcrest Ave

Raritan Center

Edison, NJ - 08837

Phone No: 732-225-7000

ORDER ID : Q2484

ATTENTION : Marcie Ann Encinas

Laboratory Certification ID # 20012

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Cover Page

Order ID : Q2484

Project ID : South River WM Replacement

Client : CDM Smith

Lab Sample Number	Client Sample Number
Q2484-01	TP-58
Q2484-02	TP-57
Q2484-03	TP-64
Q2484-04	TP-107
Q2484-05	TP-106
Q2484-06	TP-104

I certify that the data package is in compliance with the terms and conditions of the contract,both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : _____

Date: 7/15/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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CASE NARRATIVE

CDM Smith
Project Name: South River WM Replacement
Project # N/A
Order ID # Q2484
Test Name: VOC-TCLVOA-10

A. Number of Samples and Date of Receipt:
6 Solid samples were received on 07/01/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Diesel Range Organics, Gasoline Range Organics, Herbicide, Mercury, Metals ICP-TAL, METALS-TAL, PCB, Pesticide-TCL, SVOC-TCL BNA -20 and VOC-TCLVOA-10. This data package contains results for VOC-TCLVOA-10.

C. Analytical Techniques:
The analysis performed on instrument MSVOA_Y were done using GC column Rxi-624SIL MS 30m, 0.25mm, 1.4 um, Cat. #13868.The analysis of VOC-TCLVOA-10 was based on method 8260D.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.
The RPD met criteria.

The Blank Spike for {VY0707SBS01} with File ID: VY022948.D met requirements for all samples except for Methylene Chloride[142%] is failing high and associate sample having hit of Methylene Chloride but below CRQL therefore no corrective action taken.

The Blank Spike for {VY0708SBS01} with File ID: VY022970.D met requirements for all samples except for Methylene Chloride[149%] is failing high and associate sample having hit of Methylene Chloride but below CRQL therefore no corrective action taken.

The Blank Spike Duplicate for {VY0707SBSD01} with File ID: VY022949.D met requirements for all samples except for Methylene Chloride[172%] is failing high and associate sample having hit of Methylene Chloride but below CRQL therefore no corrective action taken.

The Blank analysis did not indicate the presence of lab contamination.

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The Initial Calibration met the requirements.
The Continuous Calibration met the requirements.
The Tuning criteria met requirements.

E. Additional Comments:
Samples for MS/MSD for VOC analysis were not provided with this set of samples. The Blank Spike Duplicate is reported with the data.

Trip Blank was not provided with this set of samples.

The soil samples results are based on a dry weight basis.
Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <20% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 20% for the Initial Calibration curve for SW-846 analysis.

F. Manual Integration Comments:
Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

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CASE NARRATIVE

CDM Smith
Project Name: South River WM Replacement
Project # N/A
Order ID # Q2484
Test Name: SVOC-TCL BNA -20

A. Number of Samples and Date of Receipt:
6 Solid samples were received on 07/01/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Diesel Range Organics, Gasoline Range Organics, Herbicide, Mercury, Metals ICP-TAL, METALS-TAL, PCB, Pesticide-TCL, SVOC-TCL BNA -20 and VOC-TCLVOA-10. This data package contains results for SVOC-TCL BNA -20.

C. Analytical Techniques:
The samples were analyzed on instrument BNA_F using GC Column DB-UI 8270D which is 20 meters, 0.18 mm ID, 0.36 um dfThe analysis of SVOC-TCL BNA -20 was based on method 8270E and extraction was done based on method 3541.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.
The MS recoveries met the requirements for all compounds due to matrix interference.
The MSD recoveries met the acceptable requirements due to matrix interference.
The RPD met criteria .

The Blank Spike for {PB168694BS} with File ID: BF142989.D met requirements for all samples except for Butylbenzylphthalate[106%],is failing high but no positive hit in associate samples therefore no corrective action taken.

The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements.

The Continuous Calibration File ID BF142964.D met the requirements except for Hexachlorocyclopentadiene ,is marginally biased low therefore no corrective action was taken.

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The Continuous Calibration File ID BF143025.D met the requirements except for 2,4-Dinitrophenol,4-Nitrophenol and Pentachlorophenol,are biased failing high but no positive hit in associate samples therefore no corrective action taken.

The Tuning criteria met requirements.
Samples TP-64 was diluted due to Viscous concentrated and dirty matrix.

Sample TP-58 was diluted due to high concentration.

E. Additional Comments:
The Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.

The soil samples results are based on a dry weight basis.

Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <20% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 20% for the Initial Calibration curve for SW-846 analysis.

F. Manual Integration Comments:
Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

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CASE NARRATIVE

CDM Smith
Project Name: South River WM Replacement
Project # N/A
Order ID # Q2484
Test Name: PCB

A. Number of Samples and Date of Receipt:
6 Solid samples were received on 07/01/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Diesel Range Organics, Gasoline Range Organics, Herbicide, Mercury, Metals ICP-TAL, METALS-TAL, PCB, Pesticide-TCL, SVOC-TCL BNA -20 and VOC-TCLVOA-10. This data package contains results for PCB.

C. Analytical Techniques:
The analyses were performed on instrument GCECD_P. The front column is ZB-MR1 which is 30 meters, 0.32 mm ID, 0.5 um df, Catalogue # 7HM-G016-17. The rear column is ZB-MR2 which is 30 meters, 0.32 mm ID, 0.25 µm; Catalogue # 7HM-G017-11.The analysis of PCBs was based on method 8082A and extraction was done based on method 3541.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Retention Times were acceptable for all samples.
The MS recoveries met the requirements for all compounds due to matrix interference.
The MSD recoveries met the acceptable requirements due to matrix interference.
The RPD met criteria .
The Blank Spike met requirements for all samples .
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements .
The Continuous Calibration met the requirements .

E. Additional Comments:
The soil samples results are based on a dry weight basis.

F. Manual Integration Comments:
Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

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CASE NARRATIVE

CDM Smith
Project Name: South River WM Replacement
Project # N/A
Order ID # Q2484
Test Name: Pesticide-TCL

A. Number of Samples and Date of Receipt:
6 Solid samples were received on 07/01/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Diesel Range Organics, Gasoline Range Organics, Herbicide, Mercury, Metals ICP-TAL, METALS-TAL, PCB, Pesticide-TCL, SVOC-TCL BNA -20 and VOC-TCLVOA-10. This data package contains results for Pesticide-TCL.

C. Analytical Techniques:
The analysis was performed on instrument ECD_D. The front column is ZB-MR1 which is 30 meters, 0.32 mm ID, 0. 5 um df,: Catalog # 7HM-G016-17. The rear column is ZB-MR2 which is 30 meters, 0.32 mm ID, 0.25 um df, Catalog #: 7HMG017- 11.The analysis of Pesticide-TCLs was based on method 8081B and extraction was done based on method 3541.

D. QA/ QC Samples:
The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria except for TP-58 [Decachlorobiphenyl(1)193%]. As per method one surrogate allowed to fail to meet the criteria per column. No further corrective action was taken.

The Retention Times were acceptable for all samples.
The MS recoveries met the requirements for all compounds due to matrix interference.
The MSD recoveries met the acceptable requirements due to matrix interference.
The RPD met criteria .
The Blank Spike met requirements for all samples .
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements .
The Continuous Calibration met the requirements .

E. Additional Comments:
The soil samples results are based on a dry weight basis.

F. Manual Integration Comments:

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CASE NARRATIVE

CDM Smith
Project Name: South River WM Replacement
Project # N/A
Order ID # Q2484
Test Name: Herbicide

A. Number of Samples and Date of Receipt:
6 Solid samples were received on 07/01/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Diesel Range Organics, Gasoline Range Organics, Herbicide, Mercury, Metals ICP-TAL, METALS-TAL, PCB, Pesticide-TCL, SVOC-TCL BNA -20 and VOC-TCLVOA-10. This data package contains results for Herbicide.

C. Analytical Techniques:
The analysis was performed on instrument ECD_S. The front column is RTX-CLPesticides which is 30 meters, 0.32 mm ID, 0. 5 um df,: Catalog # 11139. The rear column is RTX-CLPesticides2 which is 30 meters, 0.32 mm ID, 0.25 um df, Catalog #: 11324The analysis of Herbicides was based on method 8151A and extraction was done based on method 3541.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Retention Times were acceptable for all samples.

The MS {Q2458-01MS} with File ID: PS030949.D recoveries met the requirements for all compounds except for [Dinoseb(1)0% - Dinoseb(2)0%] due to matrix interference.

The MSD {Q2458-01MSD} with File ID: PS030950.D recoveries met the acceptable requirements except for [Dinoseb(1)0% - Dinoseb(2)0%] due to matrix interference.

The RPD met criteria .
The Blank Spike met requirements for all samples .
.
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements .
The Continuous Calibration met the requirements .

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E. Additional Comments:
The soil samples results are based on a dry weight basis.

F. Manual Integration Comments:
Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

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CASE NARRATIVE

CDM Smith
Project Name: South River WM Replacement
Project # N/A
Order ID # Q2484
Test Name: Diesel Range Organics

A. Number of Samples and Date of Receipt:
6 Solid samples were received on 07/01/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Diesel Range Organics, Gasoline Range Organics, Herbicide, Mercury, Metals ICP-TAL, METALS-TAL, PCB, Pesticide-TCL, SVOC-TCL BNA -20 and VOC-TCLVOA-10. This data package contains results for Diesel Range Organics.

C. Analytical Techniques:
The analysis were performed on instrument FID_G and FID_F. The column is RXI-1MS which is 20 meters, 0.18mm ID, 0.18 um df, catalog 13302.The analysis of Diesel Range Organics was based on method 8015D and extraction was done based on method 3541.

D. QA/ QC Samples:
The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria except for TP-64 [Tetracosane-d50 - 26%]. Due to high concentration of compounds, this sample required dilution. Therefore, sample was reanalyzed with dilution and reported.

The Retention Times were acceptable for all samples.

The MS {Q2458-04MS} with File ID: FF016081.D recoveries met the requirements for all compounds except for DRO[35%] due to matrix interference .

The MSD {Q2458-04MSD} with File ID: FF016082.D recoveries met the acceptable requirements except for DRO[38%] due to matrix interference.

The RPD met criteria.
The Blank Spike met requirements for all samples .
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements .
The Continuous Calibration met the requirements .

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Samples TP-58, TP-64 was diluted due to bad matrix. The above sample original run is reported as screening data in miscellaneous data.

E. Additional Comments:
The soil samples results are based on a dry weight basis.

F. Manual Integration Comments:
Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

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CASE NARRATIVE

CDM Smith
Project Name: South River WM Replacement
Project # N/A
Order ID # Q2484
Test Name: Gasoline Range Organics

A. Number of Samples and Date of Receipt:
6 Solid samples were received on 07/01/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Diesel Range Organics, Gasoline Range Organics, Herbicide, Mercury, Metals ICP-TAL, METALS-TAL, PCB, Pesticide-TCL, SVOC-TCL BNA -20 and VOC-TCLVOA-10. This data package contains results for Gasoline Range Organics.

C. Analytical Techniques:
The analysis performed on instrument FID_B were done using GC column RTX502.2 which is 60 meters, 0.53mm ID, 3.0 um df, cat#10909.The analysis of Gasoline Range Organics was based on method 8015D.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Retention Times were acceptable for all samples.
The RPD met criteria .
The Blank Spike met requirements for all samples .
The Blank Spike Duplicate met requirements for all samples .
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements .
The Continuous Calibration met the requirements .

E. Additional Comments:
For sample TP-107, VIAL A was not purged and VIAL B was analyzed but instrument stopped and end CCC was missing therefore Vial C analyzed and reported in hardcopy.

The soil samples results are based on a dry weight basis.

F. Manual Integration Comments:
Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

---

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CASE NARRATIVE

CDM Smith
Project Name: South River WM Replacement
Project # N/A
Order ID # Q2484
Test Name: Mercury,Metals ICP-TAL

A. Number of Samples and Date of Receipt:
6 Solid samples were received on 07/01/2025.

B. Parameters:
According to the Chain of Custody document, the following analyses were requested: Diesel Range Organics, Gasoline Range Organics, Herbicide, Mercury, Metals ICP-TAL, METALS-TAL, PCB, Pesticide-TCL, SVOC-TCL BNA -20 and VOC-TCLVOA-10.
This data package contains results for Mercury,Metals ICP-TAL.

C. Analytical Techniques:
The analysis of Metals ICP-TAL was based on method 6010D, digestion based on method 3050 (soils). The analysis and digestion of Mercury was based on method 7471B.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Blank Spike met requirements for all compounds.
The Duplicate (TP-104MSD) analysis met criteria for all compounds except for Calcium due to sample matrix interference.
The Matrix Spike (TP-104MS) analysis met criteria for all compounds except for Antimony, Selenium, Silver, and Sodium due to Chemical Interference during Digestion Process.
The Matrix Spike Duplicate (TP-104MSD) analysis met criteria for all compounds except for Antimony, Selenium, Silver, and Sodium due to Chemical Interference during Digestion Process.
The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.
The Serial Dilution met the acceptable requirements.

E. Additional Comments:
The Post Digest Spike (TP-104A) analysis met criteria for all compounds except for Silver due to unknown chemical interference of matrix with the addition of spike amount after digestion and before analysis , matrix has suppression effect during addition of spike.

In analytical sequence LB136390, The % recovery was outside of acceptance limit for Thallium of CCV05 but, no any sample associated under this CCV.

In analytical sequence LB136390, The % recovery was outside of acceptance limit for Potassium of CCV06 but, no any sample associated under this CCV.

In analytical sequence LB136390, The % recovery was outside of acceptance limit for Thallium of CCV06 but, no any sample associated under this CCV.

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DATA REPORTING QUALIFIERS- INORGANIC

For reporting results, the following " Results Qualifiers" are used:

J	Indicates the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL), but greater than or equal to the Instrument Detection Limit (IDL).
U	Indicates the analyte was analyzed for, but not detected.
ND	Indicates the analyte was analyzed for, but not detected
E	Indicates the reported value is estimated because of the presence of interference
M	Indicates Duplicate injection precision not met.
N	Indicates the spiked sample recovery is not within control limits.
S	Indicates the reported value was determined by the Method of Standard Addition (MSA).
*	Indicates that the duplicate analysis is not within control limits.
+	Indicates the correlation coefficient for the MSA is less than 0.995.
D	Indicates the reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.
M	Method qualifiers **"P"** for ICP instrument **"PM"** for ICP when Microwave Digestion is used **"CV"** for Manual Cold Vapor AA **"AV"** for automated Cold Vapor AA **"CA"** for MIDI-Distillation Spectrophotometric **"AS"** for Semi –Automated Spectrophotometric **"C"** for Manual Spectrophotometric **"T"** for Titrimetric **"NR"** for analyte not required to be analyzed
OR	Indicates the analyte's concentration exceeds the calibrated range of the instrument for that specific analysis.
Q	Indicates the LCS did not meet the control limits requirements
H	Sample Analysis Out Of Hold Time

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DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following " Results Qualifiers" are used:

Value	If the result is a value greater than or equal to the detection limit, report the value
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. "10 U". This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
ND	Indicates the analyte was analyzed for, but not detected
J	Indicates an estimated value**.** This flag is used: (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.) (2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This is flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.
B	Indicates the analyte was found in the blank as well as the sample report as "12 B".
E	Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
P	This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a "P".
N	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.
A	This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.
Q	Indicates the LCS did not meet the control limits requirements

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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q2484

	Completed
For thorough review, the report must have the following:	
GENERAL:	
Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)	✓
Check chain-of-custody for proper relinquish/return of samples	✓
Is the chain of custody signed and complete	✓
Check internal chain-of-custody for proper relinquish/return of samples /sample extracts	✓
Collect information for each project id from server. Were all requirements followed	✓
COVER PAGE:	
Do numbers of samples correspond to the number of samples in the Chain of Custody on login page	✓
Do lab numbers and client Ids on cover page agree with the Chain of Custody	✓
CHAIN OF CUSTODY:	
Do requested analyses on Chain of Custody agree with form I results	✓
Do requested analyses on Chain of Custody agree with the log-in page	✓
Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody	✓
Were the samples received within hold time	✓
Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle	✓
ANALYTICAL:	
Was method requirement followed?	✓
Was client requirement followed?	✓
Does the case narrative summarize all QC failure?	✓
All runlogs and manual integration are reviewed for requirements	✓
All manual calculations and /or hand notations verified	✓

QA Review Signature: SOHIL JODHANI **Date:** 07/15/2025

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LAB CHRONICLE

OrderID:	Q2484	**OrderDate:**	7/2/2025 9:23:00 AM
Client:	CDM Smith	**Project:**	South River WM Replacement
Contact:	Marcie Ann Encinas	**Location:**	--Select--,A12,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2484-01	**TP-58**	**SOIL**			**07/01/25**			**07/01/25**
			VOC-TCLVOA-10	8260D			07/07/25	
Q2484-02	**TP-57**	**SOIL**			**07/01/25**			**07/01/25**
			VOC-TCLVOA-10	8260D			07/07/25	
Q2484-03	**TP-64**	**SOIL**			**07/01/25**			**07/01/25**
			VOC-TCLVOA-10	8260D			07/07/25	
Q2484-04	**TP-107**	**SOIL**			**07/01/25**			**07/01/25**
			VOC-TCLVOA-10	8260D			07/07/25	
Q2484-05	**TP-106**	**SOIL**			**07/01/25**			**07/01/25**
			VOC-TCLVOA-10	8260D			07/08/25	
Q2484-06	**TP-104**	**SOIL**			**07/01/25**			**07/01/25**
			VOC-TCLVOA-10	8260D			07/07/25	

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Hit Summary Sheet
SW-846

SDG No.: Q2484

Client: CDM Smith

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	**TP-58**							
Q2484-01	TP-58	SOIL	Methylene Chloride	6.30	JQ	4.00	11.3	ug/Kg
			Total Voc :	6.30				
			Total Concentration:	6.30				
Client ID:	**TP-64**							
Q2484-03	TP-64	SOIL	Methylene Chloride	8.00	JQ	5.00	14.2	ug/Kg
			Total Voc :	8.00				
			Total Concentration:	8.00				
Client ID:	**TP-107**							
Q2484-04	TP-107	SOIL	Methylene Chloride	5.00	JQ	3.50	10.0	ug/Kg
			Total Voc :	5.00				
			Total Concentration:	5.00				
Client ID:	**TP-106**							
Q2484-05	TP-106	SOIL	Methylene Chloride	11.0	JQ	4.30	12.3	ug/Kg
			Total Voc :	11.0				
			Total Concentration:	11.0				
Client ID:	**TP-104**							
Q2484-06	TP-104	SOIL	Methylene Chloride	3.40	JQ	3.20	9.20	ug/Kg
			Total Voc :	3.40				
			Total Concentration:	3.40				

SAMPLE DATA

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-58	SDG No.:	Q2484
Lab Sample ID:	Q2484-01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	86.2
Sample Wt/Vol:	5.15 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022958.D	1	07/07/25 14:25	VY070725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.30	U	1.30	5.60	ug/Kg
74-87-3	Chloromethane	1.30	U	1.30	5.60	ug/Kg
75-01-4	Vinyl Chloride	0.89	U	0.89	5.60	ug/Kg
74-83-9	Bromomethane	1.20	U	1.20	5.60	ug/Kg
75-00-3	Chloroethane	1.40	U	1.40	5.60	ug/Kg
75-69-4	Trichlorofluoromethane	1.40	U	1.40	5.60	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.20	U	1.20	5.60	ug/Kg
75-35-4	1,1-Dichloroethene	1.10	U	1.10	5.60	ug/Kg
67-64-1	Acetone	5.30	U	5.30	28.2	ug/Kg
75-15-0	Carbon Disulfide	1.20	U	1.20	5.60	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.82	U	0.82	5.60	ug/Kg
79-20-9	Methyl Acetate	1.70	U	1.70	5.60	ug/Kg
75-09-2	Methylene Chloride	6.30	JQ	4.00	11.3	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.97	U	0.97	5.60	ug/Kg
75-34-3	1,1-Dichloroethane	0.90	U	0.90	5.60	ug/Kg
110-82-7	Cyclohexane	0.89	U	0.89	5.60	ug/Kg
78-93-3	2-Butanone	7.40	U	7.40	28.2	ug/Kg
56-23-5	Carbon Tetrachloride	1.10	U	1.10	5.60	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.84	U	0.84	5.60	ug/Kg
74-97-5	Bromochloromethane	1.30	U	1.30	5.60	ug/Kg
67-66-3	Chloroform	0.95	U	0.95	5.60	ug/Kg
71-55-6	1,1,1-Trichloroethane	1.00	U	1.00	5.60	ug/Kg
108-87-2	Methylcyclohexane	1.00	U	1.00	5.60	ug/Kg
71-43-2	Benzene	0.89	U	0.89	5.60	ug/Kg
107-06-2	1,2-Dichloroethane	0.89	U	0.89	5.60	ug/Kg
79-01-6	Trichloroethene	0.91	U	0.91	5.60	ug/Kg
78-87-5	1,2-Dichloropropane	1.00	U	1.00	5.60	ug/Kg
75-27-4	Bromodichloromethane	0.88	U	0.88	5.60	ug/Kg
108-10-1	4-Methyl-2-Pentanone	4.00	U	4.00	28.2	ug/Kg
108-88-3	Toluene	0.88	U	0.88	5.60	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-58	SDG No.:	Q2484
Lab Sample ID:	Q2484-01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	86.2
Sample Wt/Vol:	5.15 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022958.D	1	07/07/25 14:25	VY070725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.73	U	0.73	5.60	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.70	U	0.70	5.60	ug/Kg
79-00-5	1,1,2-Trichloroethane	1.00	U	1.00	5.60	ug/Kg
591-78-6	2-Hexanone	4.20	U	4.20	28.2	ug/Kg
124-48-1	Dibromochloromethane	0.98	U	0.98	5.60	ug/Kg
106-93-4	1,2-Dibromoethane	0.99	U	0.99	5.60	ug/Kg
127-18-4	Tetrachloroethene	1.20	U	1.20	5.60	ug/Kg
108-90-7	Chlorobenzene	1.00	U	1.00	5.60	ug/Kg
100-41-4	Ethyl Benzene	0.75	U	0.75	5.60	ug/Kg
179601-23-1	m/p-Xylenes	1.40	U	1.40	11.3	ug/Kg
95-47-6	o-Xylene	0.92	U	0.92	5.60	ug/Kg
100-42-5	Styrene	0.80	U	0.80	5.60	ug/Kg
75-25-2	Bromoform	0.97	U	0.97	5.60	ug/Kg
98-82-8	Isopropylbenzene	0.88	U	0.88	5.60	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.40	U	1.40	5.60	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.90	U	1.90	5.60	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.80	U	1.80	5.60	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.60	U	1.60	5.60	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	2.10	U	2.10	5.60	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	3.30	U	3.30	5.60	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	3.60	U	3.60	5.60	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.4		63 - 155	101%	SPK: 50
1868-53-7	Dibromofluoromethane	51.9		70 - 134	104%	SPK: 50
2037-26-5	Toluene-d8	51.7		74 - 123	103%	SPK: 50
460-00-4	4-Bromofluorobenzene	58.4		17 - 146	117%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	304000	7.707			
540-36-3	1,4-Difluorobenzene	574000	8.616			
3114-55-4	Chlorobenzene-d5	579000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	250000	13.34			

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-58	SDG No.:	Q2484
Lab Sample ID:	Q2484-01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	86.2
Sample Wt/Vol:	5.15 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022958.D	1	07/07/25 14:25	VY070725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-57	SDG No.:	Q2484
Lab Sample ID:	Q2484-02	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	86
Sample Wt/Vol:	3.48 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022959.D	1	07/07/25 14:48	VY070725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.90	U	1.90	8.40	ug/Kg
74-87-3	Chloromethane	1.90	U	1.90	8.40	ug/Kg
75-01-4	Vinyl Chloride	1.30	U	1.30	8.40	ug/Kg
74-83-9	Bromomethane	1.80	U	1.80	8.40	ug/Kg
75-00-3	Chloroethane	2.10	U	2.10	8.40	ug/Kg
75-69-4	Trichlorofluoromethane	2.00	U	2.00	8.40	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.80	U	1.80	8.40	ug/Kg
75-35-4	1,1-Dichloroethene	1.70	U	1.70	8.40	ug/Kg
67-64-1	Acetone	7.90	U	7.90	41.8	ug/Kg
75-15-0	Carbon Disulfide	1.80	U	1.80	8.40	ug/Kg
1634-04-4	Methyl tert-butyl Ether	1.20	U	1.20	8.40	ug/Kg
79-20-9	Methyl Acetate	2.60	U	2.60	8.40	ug/Kg
75-09-2	Methylene Chloride	5.90	UQ	5.90	16.7	ug/Kg
156-60-5	trans-1,2-Dichloroethene	1.40	U	1.40	8.40	ug/Kg
75-34-3	1,1-Dichloroethane	1.30	U	1.30	8.40	ug/Kg
110-82-7	Cyclohexane	1.30	U	1.30	8.40	ug/Kg
78-93-3	2-Butanone	10.9	U	10.9	41.8	ug/Kg
56-23-5	Carbon Tetrachloride	1.60	U	1.60	8.40	ug/Kg
156-59-2	cis-1,2-Dichloroethene	1.30	U	1.30	8.40	ug/Kg
74-97-5	Bromochloromethane	1.90	U	1.90	8.40	ug/Kg
67-66-3	Chloroform	1.40	U	1.40	8.40	ug/Kg
71-55-6	1,1,1-Trichloroethane	1.60	U	1.60	8.40	ug/Kg
108-87-2	Methylcyclohexane	1.50	U	1.50	8.40	ug/Kg
71-43-2	Benzene	1.30	U	1.30	8.40	ug/Kg
107-06-2	1,2-Dichloroethane	1.30	U	1.30	8.40	ug/Kg
79-01-6	Trichloroethene	1.40	U	1.40	8.40	ug/Kg
78-87-5	1,2-Dichloropropane	1.50	U	1.50	8.40	ug/Kg
75-27-4	Bromodichloromethane	1.30	U	1.30	8.40	ug/Kg
108-10-1	4-Methyl-2-Pentanone	6.00	U	6.00	41.8	ug/Kg
108-88-3	Toluene	1.30	U	1.30	8.40	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-57	SDG No.:	Q2484
Lab Sample ID:	Q2484-02	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	86
Sample Wt/Vol:	3.48 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022959.D	1	07/07/25 14:48	VY070725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	1.10	U	1.10	8.40	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	1.00	U	1.00	8.40	ug/Kg
79-00-5	1,1,2-Trichloroethane	1.50	U	1.50	8.40	ug/Kg
591-78-6	2-Hexanone	6.20	U	6.20	41.8	ug/Kg
124-48-1	Dibromochloromethane	1.50	U	1.50	8.40	ug/Kg
106-93-4	1,2-Dibromoethane	1.50	U	1.50	8.40	ug/Kg
127-18-4	Tetrachloroethene	1.80	U	1.80	8.40	ug/Kg
108-90-7	Chlorobenzene	1.50	U	1.50	8.40	ug/Kg
100-41-4	Ethyl Benzene	1.10	U	1.10	8.40	ug/Kg
179601-23-1	m/p-Xylenes	2.10	U	2.10	16.7	ug/Kg
95-47-6	o-Xylene	1.40	U	1.40	8.40	ug/Kg
100-42-5	Styrene	1.20	U	1.20	8.40	ug/Kg
75-25-2	Bromoform	1.40	U	1.40	8.40	ug/Kg
98-82-8	Isopropylbenzene	1.30	U	1.30	8.40	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	2.00	U	2.00	8.40	ug/Kg
541-73-1	1,3-Dichlorobenzene	2.90	U	2.90	8.40	ug/Kg
106-46-7	1,4-Dichlorobenzene	2.60	U	2.60	8.40	ug/Kg
95-50-1	1,2-Dichlorobenzene	2.40	U	2.40	8.40	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	3.10	U	3.10	8.40	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	5.00	U	5.00	8.40	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	5.30	U	5.30	8.40	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.2		63 - 155	96%	SPK: 50
1868-53-7	Dibromofluoromethane	51.0		70 - 134	102%	SPK: 50
2037-26-5	Toluene-d8	50.5		74 - 123	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.4		17 - 146	107%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	302000	7.707			
540-36-3	1,4-Difluorobenzene	565000	8.616			
3114-55-4	Chlorobenzene-d5	552000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	224000	13.34			

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-57	SDG No.:	Q2484
Lab Sample ID:	Q2484-02	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	86
Sample Wt/Vol:	3.48 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022959.D	1	07/07/25 14:48	VY070725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-64	SDG No.:	Q2484
Lab Sample ID:	Q2484-03	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	88.4
Sample Wt/Vol:	3.98 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022960.D	1	07/07/25 15:12	VY070725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.60	U	1.60	7.10	ug/Kg
74-87-3	Chloromethane	1.60	U	1.60	7.10	ug/Kg
75-01-4	Vinyl Chloride	1.10	U	1.10	7.10	ug/Kg
74-83-9	Bromomethane	1.50	U	1.50	7.10	ug/Kg
75-00-3	Chloroethane	1.80	U	1.80	7.10	ug/Kg
75-69-4	Trichlorofluoromethane	1.70	U	1.70	7.10	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.50	U	1.50	7.10	ug/Kg
75-35-4	1,1-Dichloroethene	1.40	U	1.40	7.10	ug/Kg
67-64-1	Acetone	6.70	U	6.70	35.5	ug/Kg
75-15-0	Carbon Disulfide	1.50	U	1.50	7.10	ug/Kg
1634-04-4	Methyl tert-butyl Ether	1.00	U	1.00	7.10	ug/Kg
79-20-9	Methyl Acetate	2.20	U	2.20	7.10	ug/Kg
75-09-2	Methylene Chloride	8.00	JQ	5.00	14.2	ug/Kg
156-60-5	trans-1,2-Dichloroethene	1.20	U	1.20	7.10	ug/Kg
75-34-3	1,1-Dichloroethane	1.10	U	1.10	7.10	ug/Kg
110-82-7	Cyclohexane	1.10	U	1.10	7.10	ug/Kg
78-93-3	2-Butanone	9.30	U	9.30	35.5	ug/Kg
56-23-5	Carbon Tetrachloride	1.40	U	1.40	7.10	ug/Kg
156-59-2	cis-1,2-Dichloroethene	1.10	U	1.10	7.10	ug/Kg
74-97-5	Bromochloromethane	1.60	U	1.60	7.10	ug/Kg
67-66-3	Chloroform	1.20	U	1.20	7.10	ug/Kg
71-55-6	1,1,1-Trichloroethane	1.30	U	1.30	7.10	ug/Kg
108-87-2	Methylcyclohexane	1.30	U	1.30	7.10	ug/Kg
71-43-2	Benzene	1.10	U	1.10	7.10	ug/Kg
107-06-2	1,2-Dichloroethane	1.10	U	1.10	7.10	ug/Kg
79-01-6	Trichloroethene	1.20	U	1.20	7.10	ug/Kg
78-87-5	1,2-Dichloropropane	1.30	U	1.30	7.10	ug/Kg
75-27-4	Bromodichloromethane	1.10	U	1.10	7.10	ug/Kg
108-10-1	4-Methyl-2-Pentanone	5.10	U	5.10	35.5	ug/Kg
108-88-3	Toluene	1.10	U	1.10	7.10	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-64	SDG No.:	Q2484
Lab Sample ID:	Q2484-03	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	88.4
Sample Wt/Vol:	3.98 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022960.D	1	07/07/25 15:12	VY070725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.92	U	0.92	7.10	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.88	U	0.88	7.10	ug/Kg
79-00-5	1,1,2-Trichloroethane	1.30	U	1.30	7.10	ug/Kg
591-78-6	2-Hexanone	5.20	U	5.20	35.5	ug/Kg
124-48-1	Dibromochloromethane	1.20	U	1.20	7.10	ug/Kg
106-93-4	1,2-Dibromoethane	1.30	U	1.30	7.10	ug/Kg
127-18-4	Tetrachloroethene	1.50	U	1.50	7.10	ug/Kg
108-90-7	Chlorobenzene	1.30	U	1.30	7.10	ug/Kg
100-41-4	Ethyl Benzene	0.95	U	0.95	7.10	ug/Kg
179601-23-1	m/p-Xylenes	1.80	U	1.80	14.2	ug/Kg
95-47-6	o-Xylene	1.20	U	1.20	7.10	ug/Kg
100-42-5	Styrene	1.00	U	1.00	7.10	ug/Kg
75-25-2	Bromoform	1.20	U	1.20	7.10	ug/Kg
98-82-8	Isopropylbenzene	1.10	U	1.10	7.10	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.70	U	1.70	7.10	ug/Kg
541-73-1	1,3-Dichlorobenzene	2.40	U	2.40	7.10	ug/Kg
106-46-7	1,4-Dichlorobenzene	2.20	U	2.20	7.10	ug/Kg
95-50-1	1,2-Dichlorobenzene	2.10	U	2.10	7.10	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	2.60	U	2.60	7.10	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	4.20	U	4.20	7.10	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	4.50	U	4.50	7.10	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.8		63 - 155	98%	SPK: 50
1868-53-7	Dibromofluoromethane	50.4		70 - 134	101%	SPK: 50
2037-26-5	Toluene-d8	49.8		74 - 123	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.7		17 - 146	93%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	287000	7.707			
540-36-3	1,4-Difluorobenzene	533000	8.616			
3114-55-4	Chlorobenzene-d5	487000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	166000	13.34			

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-64	SDG No.:	Q2484
Lab Sample ID:	Q2484-03	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	88.4
Sample Wt/Vol:	3.98 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022960.D	1	07/07/25 15:12	VY070725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-107	SDG No.:	Q2484
Lab Sample ID:	Q2484-04	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	83.8
Sample Wt/Vol:	5.94 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022961.D	1	07/07/25 15:35	VY070725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.10	U	1.10	5.00	ug/Kg
74-87-3	Chloromethane	1.10	U	1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	0.79	U	0.79	5.00	ug/Kg
74-83-9	Bromomethane	1.10	U	1.10	5.00	ug/Kg
75-00-3	Chloroethane	1.30	U	1.30	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	1.20	U	1.20	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.10	U	1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	1.00	U	1.00	5.00	ug/Kg
67-64-1	Acetone	4.80	U	4.80	25.1	ug/Kg
75-15-0	Carbon Disulfide	1.10	U	1.10	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.73	U	0.73	5.00	ug/Kg
79-20-9	Methyl Acetate	1.50	U	1.50	5.00	ug/Kg
75-09-2	Methylene Chloride	5.00	JQ	3.50	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.86	U	0.86	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	0.80	U	0.80	5.00	ug/Kg
110-82-7	Cyclohexane	0.79	U	0.79	5.00	ug/Kg
78-93-3	2-Butanone	6.60	U	6.60	25.1	ug/Kg
56-23-5	Carbon Tetrachloride	0.97	U	0.97	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.75	5.00	ug/Kg
74-97-5	Bromochloromethane	1.20	U	1.20	5.00	ug/Kg
67-66-3	Chloroform	0.84	U	0.84	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.93	U	0.93	5.00	ug/Kg
108-87-2	Methylcyclohexane	0.91	U	0.91	5.00	ug/Kg
71-43-2	Benzene	0.79	U	0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	0.79	U	0.79	5.00	ug/Kg
79-01-6	Trichloroethene	0.81	U	0.81	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	0.91	U	0.91	5.00	ug/Kg
75-27-4	Bromodichloromethane	0.78	U	0.78	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.60	U	3.60	25.1	ug/Kg
108-88-3	Toluene	0.78	U	0.78	5.00	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-107	SDG No.:	Q2484
Lab Sample ID:	Q2484-04	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	83.8
Sample Wt/Vol:	5.94 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022961.D	1	07/07/25 15:35	VY070725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.65	U	0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.62	U	0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.92	U	0.92	5.00	ug/Kg
591-78-6	2-Hexanone	3.70	U	3.70	25.1	ug/Kg
124-48-1	Dibromochloromethane	0.87	U	0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	0.88	U	0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	1.10	U	1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	0.91	U	0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	0.67	U	0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	1.20	U	1.20	10.0	ug/Kg
95-47-6	o-Xylene	0.82	U	0.82	5.00	ug/Kg
100-42-5	Styrene	0.71	U	0.71	5.00	ug/Kg
75-25-2	Bromoform	0.86	U	0.86	5.00	ug/Kg
98-82-8	Isopropylbenzene	0.78	U	0.78	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.20	U	1.20	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.70	U	1.70	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.60	U	1.60	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.50	U	1.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.80	U	1.80	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	3.00	U	3.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	3.20	U	3.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	43.1		63 - 155	86%	SPK: 50
1868-53-7	Dibromofluoromethane	48.1		70 - 134	96%	SPK: 50
2037-26-5	Toluene-d8	50.9		74 - 123	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.0		17 - 146	102%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	325000	7.707			
540-36-3	1,4-Difluorobenzene	601000	8.616			
3114-55-4	Chlorobenzene-d5	567000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	237000	13.34			

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-107	SDG No.:	Q2484
Lab Sample ID:	Q2484-04	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	83.8
Sample Wt/Vol:	5.94 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022961.D	1	07/07/25 15:35	VY070725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-106	SDG No.:	Q2484
Lab Sample ID:	Q2484-05	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	87.9
Sample Wt/Vol:	4.63 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022974.D	1	07/08/25 14:40	VY070825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.40	U	1.40	6.10	ug/Kg
74-87-3	Chloromethane	1.40	U	1.40	6.10	ug/Kg
75-01-4	Vinyl Chloride	0.97	U	0.97	6.10	ug/Kg
74-83-9	Bromomethane	1.30	U	1.30	6.10	ug/Kg
75-00-3	Chloroethane	1.50	U	1.50	6.10	ug/Kg
75-69-4	Trichlorofluoromethane	1.50	U	1.50	6.10	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.30	U	1.30	6.10	ug/Kg
75-35-4	1,1-Dichloroethene	1.20	U	1.20	6.10	ug/Kg
67-64-1	Acetone	5.80	U	5.80	30.7	ug/Kg
75-15-0	Carbon Disulfide	1.30	U	1.30	6.10	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.90	U	0.90	6.10	ug/Kg
79-20-9	Methyl Acetate	1.90	U	1.90	6.10	ug/Kg
75-09-2	Methylene Chloride	11.0	JQ	4.30	12.3	ug/Kg
156-60-5	trans-1,2-Dichloroethene	1.10	U	1.10	6.10	ug/Kg
75-34-3	1,1-Dichloroethane	0.98	U	0.98	6.10	ug/Kg
110-82-7	Cyclohexane	0.97	U	0.97	6.10	ug/Kg
78-93-3	2-Butanone	8.00	U	8.00	30.7	ug/Kg
56-23-5	Carbon Tetrachloride	1.20	U	1.20	6.10	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.92	U	0.92	6.10	ug/Kg
74-97-5	Bromochloromethane	1.40	U	1.40	6.10	ug/Kg
67-66-3	Chloroform	1.00	U	1.00	6.10	ug/Kg
71-55-6	1,1,1-Trichloroethane	1.10	U	1.10	6.10	ug/Kg
108-87-2	Methylcyclohexane	1.10	U	1.10	6.10	ug/Kg
71-43-2	Benzene	0.97	U	0.97	6.10	ug/Kg
107-06-2	1,2-Dichloroethane	0.97	U	0.97	6.10	ug/Kg
79-01-6	Trichloroethene	1.00	U	1.00	6.10	ug/Kg
78-87-5	1,2-Dichloropropane	1.10	U	1.10	6.10	ug/Kg
75-27-4	Bromodichloromethane	0.96	U	0.96	6.10	ug/Kg
108-10-1	4-Methyl-2-Pentanone	4.40	U	4.40	30.7	ug/Kg
108-88-3	Toluene	0.96	U	0.96	6.10	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-106	SDG No.:	Q2484
Lab Sample ID:	Q2484-05	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	87.9
Sample Wt/Vol:	4.63 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022974.D	1	07/08/25 14:40	VY070825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.80	U	0.80	6.10	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.76	U	0.76	6.10	ug/Kg
79-00-5	1,1,2-Trichloroethane	1.10	U	1.10	6.10	ug/Kg
591-78-6	2-Hexanone	4.50	U	4.50	30.7	ug/Kg
124-48-1	Dibromochloromethane	1.10	U	1.10	6.10	ug/Kg
106-93-4	1,2-Dibromoethane	1.10	U	1.10	6.10	ug/Kg
127-18-4	Tetrachloroethene	1.30	U	1.30	6.10	ug/Kg
108-90-7	Chlorobenzene	1.10	U	1.10	6.10	ug/Kg
100-41-4	Ethyl Benzene	0.82	U	0.82	6.10	ug/Kg
179601-23-1	m/p-Xylenes	1.50	U	1.50	12.3	ug/Kg
95-47-6	o-Xylene	1.00	U	1.00	6.10	ug/Kg
100-42-5	Styrene	0.87	U	0.87	6.10	ug/Kg
75-25-2	Bromoform	1.10	U	1.10	6.10	ug/Kg
98-82-8	Isopropylbenzene	0.96	U	0.96	6.10	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.50	U	1.50	6.10	ug/Kg
541-73-1	1,3-Dichlorobenzene	2.10	U	2.10	6.10	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.90	U	1.90	6.10	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.80	U	1.80	6.10	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	2.30	U	2.30	6.10	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	3.60	U	3.60	6.10	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	3.90	U	3.90	6.10	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.3		63 - 155	103%	SPK: 50
1868-53-7	Dibromofluoromethane	51.4		70 - 134	103%	SPK: 50
2037-26-5	Toluene-d8	50.8		74 - 123	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	54.1		17 - 146	108%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	295000	7.707			
540-36-3	1,4-Difluorobenzene	579000	8.616			
3114-55-4	Chlorobenzene-d5	570000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	250000	13.34			

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-106	SDG No.:	Q2484
Lab Sample ID:	Q2484-05	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	87.9
Sample Wt/Vol:	4.63 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022974.D	1	07/08/25 14:40	VY070825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-104	SDG No.:	Q2484
Lab Sample ID:	Q2484-06	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	87.3
Sample Wt/Vol:	6.25 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022963.D	1	07/07/25 16:22	VY070725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	1.00	4.60	ug/Kg
74-87-3	Chloromethane	1.00	U	1.00	4.60	ug/Kg
75-01-4	Vinyl Chloride	0.72	U	0.72	4.60	ug/Kg
74-83-9	Bromomethane	0.98	U	0.98	4.60	ug/Kg
75-00-3	Chloroethane	1.20	U	1.20	4.60	ug/Kg
75-69-4	Trichlorofluoromethane	1.10	U	1.10	4.60	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.97	U	0.97	4.60	ug/Kg
75-35-4	1,1-Dichloroethene	0.92	U	0.92	4.60	ug/Kg
67-64-1	Acetone	4.30	U	4.30	22.9	ug/Kg
75-15-0	Carbon Disulfide	0.97	U	0.97	4.60	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.67	U	0.67	4.60	ug/Kg
79-20-9	Methyl Acetate	1.40	U	1.40	4.60	ug/Kg
75-09-2	Methylene Chloride	3.40	JQ	3.20	9.20	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.79	U	0.79	4.60	ug/Kg
75-34-3	1,1-Dichloroethane	0.73	U	0.73	4.60	ug/Kg
110-82-7	Cyclohexane	0.72	U	0.72	4.60	ug/Kg
78-93-3	2-Butanone	6.00	U	6.00	22.9	ug/Kg
56-23-5	Carbon Tetrachloride	0.89	U	0.89	4.60	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.69	U	0.69	4.60	ug/Kg
74-97-5	Bromochloromethane	1.10	U	1.10	4.60	ug/Kg
67-66-3	Chloroform	0.77	U	0.77	4.60	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.85	U	0.85	4.60	ug/Kg
108-87-2	Methylcyclohexane	0.83	U	0.83	4.60	ug/Kg
71-43-2	Benzene	0.72	U	0.72	4.60	ug/Kg
107-06-2	1,2-Dichloroethane	0.72	U	0.72	4.60	ug/Kg
79-01-6	Trichloroethene	0.74	U	0.74	4.60	ug/Kg
78-87-5	1,2-Dichloropropane	0.83	U	0.83	4.60	ug/Kg
75-27-4	Bromodichloromethane	0.71	U	0.71	4.60	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.30	U	3.30	22.9	ug/Kg
108-88-3	Toluene	0.71	U	0.71	4.60	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-104	SDG No.:	Q2484
Lab Sample ID:	Q2484-06	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	87.3
Sample Wt/Vol:	6.25 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022963.D	1	07/07/25 16:22	VY070725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.60	U	0.60	4.60	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.57	U	0.57	4.60	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.84	U	0.84	4.60	ug/Kg
591-78-6	2-Hexanone	3.40	U	3.40	22.9	ug/Kg
124-48-1	Dibromochloromethane	0.80	U	0.80	4.60	ug/Kg
106-93-4	1,2-Dibromoethane	0.81	U	0.81	4.60	ug/Kg
127-18-4	Tetrachloroethene	0.96	U	0.96	4.60	ug/Kg
108-90-7	Chlorobenzene	0.83	U	0.83	4.60	ug/Kg
100-41-4	Ethyl Benzene	0.61	U	0.61	4.60	ug/Kg
179601-23-1	m/p-Xylenes	1.10	U	1.10	9.20	ug/Kg
95-47-6	o-Xylene	0.75	U	0.75	4.60	ug/Kg
100-42-5	Styrene	0.65	U	0.65	4.60	ug/Kg
75-25-2	Bromoform	0.79	U	0.79	4.60	ug/Kg
98-82-8	Isopropylbenzene	0.71	U	0.71	4.60	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.10	U	1.10	4.60	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.60	U	1.60	4.60	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.40	U	1.40	4.60	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.30	U	1.30	4.60	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.70	U	1.70	4.60	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.70	U	2.70	4.60	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	2.90	U	2.90	4.60	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	55.4		63 - 155	111%	SPK: 50
1868-53-7	Dibromofluoromethane	52.2		70 - 134	104%	SPK: 50
2037-26-5	Toluene-d8	50.8		74 - 123	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	57.0		17 - 146	114%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	267000	7.707			
540-36-3	1,4-Difluorobenzene	509000	8.616			
3114-55-4	Chlorobenzene-d5	510000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	229000	13.347			

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-104	SDG No.:	Q2484
Lab Sample ID:	Q2484-06	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	87.3
Sample Wt/Vol:	6.25 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022963.D	1	07/07/25 16:22	VY070725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

QC SUMMARY

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Surrogate Summary

SDG No.: Q2484

Client: CDM Smith

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
Q2484-01	TP-58	1,2-Dichloroethane-d4	50	50.5	101		63	155
		Dibromofluoromethane	50	51.9	104		70	134
		Toluene-d8	50	51.7	103		74	123
		4-Bromofluorobenzene	50	58.4	117		17	146
Q2484-02	TP-57	1,2-Dichloroethane-d4	50	48.2	96		63	155
		Dibromofluoromethane	50	51.0	102		70	134
		Toluene-d8	50	50.5	101		74	123
		4-Bromofluorobenzene	50	53.5	107		17	146
Q2484-03	TP-64	1,2-Dichloroethane-d4	50	48.8	98		63	155
		Dibromofluoromethane	50	50.5	101		70	134
		Toluene-d8	50	49.8	100		74	123
		4-Bromofluorobenzene	50	46.7	93		17	146
Q2484-04	TP-107	1,2-Dichloroethane-d4	50	43.0	86		63	155
		Dibromofluoromethane	50	48.1	96		70	134
		Toluene-d8	50	50.9	102		74	123
		4-Bromofluorobenzene	50	51.0	102		17	146
Q2484-05	TP-106	1,2-Dichloroethane-d4	50	51.3	103		63	155
		Dibromofluoromethane	50	51.4	103		70	134
		Toluene-d8	50	50.8	102		74	123
		4-Bromofluorobenzene	50	54.1	108		17	146
Q2484-06	TP-104	1,2-Dichloroethane-d4	50	55.4	111		63	155
		Dibromofluoromethane	50	52.2	104		70	134
		Toluene-d8	50	50.8	102		74	123
		4-Bromofluorobenzene	50	57.0	114		17	146
VY0707SBL01	VY0707SBL01	1,2-Dichloroethane-d4	50	45.8	91		63	155
		Dibromofluoromethane	50	50.4	101		70	134
		Toluene-d8	50	50.9	102		74	123
		4-Bromofluorobenzene	50	53.3	107		17	146
VY0707SBS01	VY0707SBS01	1,2-Dichloroethane-d4	50	46.9	94		63	155
		Dibromofluoromethane	50	49.5	99		70	134
		Toluene-d8	50	50.4	101		74	123
		4-Bromofluorobenzene	50	47.0	94		17	146
VY0707SBSD01	VY0707SBSD01	1,2-Dichloroethane-d4	50	47.9	96		63	155
		Dibromofluoromethane	50	50.4	101		70	134
		Toluene-d8	50	50.1	100		74	123
		4-Bromofluorobenzene	50	48.4	97		17	146
VY0708SBL01	VY0708SBL01	1,2-Dichloroethane-d4	50	49.7	99		63	155
		Dibromofluoromethane	50	51.2	102		70	134
		Toluene-d8	50	50.8	102		74	123
		4-Bromofluorobenzene	50	54.9	110		17	146
VY0708SBS01	VY0708SBS01	1,2-Dichloroethane-d4	50	52.0	104		63	155
		Dibromofluoromethane	50	54.0	108		70	134
		Toluene-d8	50	53.5	107		74	123
		4-Bromofluorobenzene	50	51.5	103		17	146

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2484 **Analytical Method:** SW8260D

Client: CDM Smith **Datafile :** VY022948.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0707SBS01	Dichlorodifluoromethane	20	20.3	ug/Kg	102			64	136	
	Chloromethane	20	19.1	ug/Kg	96			52	151	
	Vinyl chloride	20	18.8	ug/Kg	94			56	148	
	Bromomethane	20	18.8	ug/Kg	94			58	141	
	Chloroethane	20	19.0	ug/Kg	95			69	130	
	Trichlorofluoromethane	20	19.1	ug/Kg	96			69	134	
	1,1,2-Trichlorotrifluoroethane	20	21.3	ug/Kg	106			81	123	
	1,1-Dichloroethene	20	20.8	ug/Kg	104			79	121	
	Acetone	100	140	ug/Kg	140			40	171	
	Carbon disulfide	20	20.7	ug/Kg	104			59	130	
	Methyl tert-butyl Ether	20	18.4	ug/Kg	92			77	129	
	Methyl Acetate	20	16.6	ug/Kg	83			69	149	
	Methylene Chloride	20	28.4	ug/Kg	142		*	72	131	
	trans-1,2-Dichloroethene	20	20.6	ug/Kg	103			80	123	
	1,1-Dichloroethane	20	21.3	ug/Kg	106			82	123	
	Cyclohexane	20	21.0	ug/Kg	105			76	122	
	2-Butanone	100	110	ug/Kg	110			69	131	
	Carbon Tetrachloride	20	21.2	ug/Kg	106			76	129	
	cis-1,2-Dichloroethene	20	20.0	ug/Kg	100			82	123	
	Bromochloromethane	20	20.2	ug/Kg	101			80	127	
	Chloroform	20	20.5	ug/Kg	103			82	125	
	1,1,1-Trichloroethane	20	21.0	ug/Kg	105			80	126	
	Methylcyclohexane	20	20.7	ug/Kg	104			77	123	
	Benzene	20	20.7	ug/Kg	104			84	121	
	1,2-Dichloroethane	20	19.5	ug/Kg	98			81	126	
	Trichloroethene	20	21.4	ug/Kg	107			83	122	
	1,2-Dichloropropane	20	20.8	ug/Kg	104			83	122	
	Bromodichloromethane	20	20.3	ug/Kg	102			82	123	
	4-Methyl-2-Pentanone	100	87.9	ug/Kg	88			70	135	
	Toluene	20	20.5	ug/Kg	103			83	122	
	t-1,3-Dichloropropene	20	19.3	ug/Kg	97			78	124	
	cis-1,3-Dichloropropene	20	20.0	ug/Kg	100			81	122	
	1,1,2-Trichloroethane	20	19.3	ug/Kg	97			82	125	
	2-Hexanone	100	97.0	ug/Kg	97			66	138	
	Dibromochloromethane	20	19.3	ug/Kg	97			79	125	
	1,2-Dibromoethane	20	18.6	ug/Kg	93			80	125	
	Tetrachloroethene	20	22.3	ug/Kg	112			83	125	
	Chlorobenzene	20	20.7	ug/Kg	104			84	122	
	Ethyl Benzene	20	20.7	ug/Kg	104			82	124	
	m/p-Xylenes	40	41.4	ug/Kg	104			83	124	
	o-Xylene	20	20.3	ug/Kg	102			83	123	
	Styrene	20	19.8	ug/Kg	99			82	124	
	Bromoform	20	18.3	ug/Kg	92			75	127	
	Isopropylbenzene	20	21.5	ug/Kg	108			82	124	
	1,1,2,2-Tetrachloroethane	20	18.3	ug/Kg	92			77	127	
	1,3-Dichlorobenzene	20	20.7	ug/Kg	104			83	122	
	1,4-Dichlorobenzene	20	20.5	ug/Kg	103			84	121	
	1,2-Dichlorobenzene	20	20.1	ug/Kg	101			83	124	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	**Q2484**	**Analytical Method:**	**SW8260D**
Client:	**CDM Smith**	**Datafile :**	VY022948.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0707SBS01	1,2-Dibromo-3-Chloropropane	20	16.8	ug/Kg	84			66	134	
	1,2,4-Trichlorobenzene	20	18.4	ug/Kg	92			78	127	
	1,2,3-Trichlorobenzene	20	17.7	ug/Kg	89			70	137	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2484 **Analytical Method:** SW8260D

Client: CDM Smith **Datafile :** VY022949.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0707SBSD01	Dichlorodifluoromethane	20	20.5	ug/Kg	103	1		64	136	20
	Chloromethane	20	19.3	ug/Kg	97	1		52	151	20
	Vinyl chloride	20	18.7	ug/Kg	94	0		56	148	20
	Bromomethane	20	19.0	ug/Kg	95	1		58	141	20
	Chloroethane	20	19.2	ug/Kg	96	1		69	130	20
	Trichlorofluoromethane	20	19.2	ug/Kg	96	0		69	134	20
	1,1,2-Trichlorotrifluoroethane	20	21.8	ug/Kg	109	3		81	123	20
	1,1-Dichloroethene	20	21.0	ug/Kg	105	1		79	121	20
	Acetone	100	150	ug/Kg	150	7		40	171	20
	Carbon disulfide	20	20.7	ug/Kg	104	0		59	130	20
	Methyl tert-butyl Ether	20	19.7	ug/Kg	99	7		77	129	20
	Methyl Acetate	20	17.0	ug/Kg	85	2		69	149	20
	Methylene Chloride	20	34.4	ug/Kg	172	19	*	72	131	20
	trans-1,2-Dichloroethene	20	20.5	ug/Kg	103	0		80	123	20
	1,1-Dichloroethane	20	21.4	ug/Kg	107	1		82	123	20
	Cyclohexane	20	21.0	ug/Kg	105	0		76	122	20
	2-Butanone	100	120	ug/Kg	120	9		69	131	20
	Carbon Tetrachloride	20	21.1	ug/Kg	106	0		76	129	20
	cis-1,2-Dichloroethene	20	20.6	ug/Kg	103	3		82	123	20
	Bromochloromethane	20	21.5	ug/Kg	108	7		80	127	20
	Chloroform	20	20.9	ug/Kg	104	1		82	125	20
	1,1,1-Trichloroethane	20	21.3	ug/Kg	106	1		80	126	20
	Methylcyclohexane	20	21.0	ug/Kg	105	1		77	123	20
	Benzene	20	21.3	ug/Kg	106	2		84	121	20
	1,2-Dichloroethane	20	20.3	ug/Kg	102	4		81	126	20
	Trichloroethene	20	21.1	ug/Kg	106	1		83	122	20
	1,2-Dichloropropane	20	21.7	ug/Kg	109	5		83	122	20
	Bromodichloromethane	20	20.7	ug/Kg	104	2		82	123	20
	4-Methyl-2-Pentanone	100	99.0	ug/Kg	99	12		70	135	20
	Toluene	20	20.9	ug/Kg	104	1		83	122	20
	t-1,3-Dichloropropene	20	20.2	ug/Kg	101	4		78	124	20
	cis-1,3-Dichloropropene	20	21.4	ug/Kg	107	7		81	122	20
	1,1,2-Trichloroethane	20	20.3	ug/Kg	102	5		82	125	20
	2-Hexanone	100	110	ug/Kg	110	13		66	138	20
	Dibromochloromethane	20	20.2	ug/Kg	101	4		79	125	20
	1,2-Dibromoethane	20	19.9	ug/Kg	100	7		80	125	20
	Tetrachloroethene	20	21.4	ug/Kg	107	5		83	125	20
	Chlorobenzene	20	20.9	ug/Kg	104	0		84	122	20
	Ethyl Benzene	20	20.7	ug/Kg	104	0		82	124	20
	m/p-Xylenes	40	41.4	ug/Kg	104	0		83	124	20
	o-Xylene	20	20.1	ug/Kg	101	1		83	123	20
	Styrene	20	20.1	ug/Kg	101	2		82	124	20
	Bromoform	20	19.5	ug/Kg	98	6		75	127	20
	Isopropylbenzene	20	21.3	ug/Kg	106	2		82	124	20
	1,1,2,2-Tetrachloroethane	20	21.0	ug/Kg	105	13		77	127	20
	1,3-Dichlorobenzene	20	21.2	ug/Kg	106	2		83	122	20
	1,4-Dichlorobenzene	20	21.0	ug/Kg	105	2		84	121	20
	1,2-Dichlorobenzene	20	20.8	ug/Kg	104	3		83	124	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2484 **Analytical Method:** SW8260D

Client: CDM Smith **Datafile :** VY022949.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0707SBSD01	1,2-Dibromo-3-Chloropropane	20	18.7	ug/Kg	94	11		66	134	20
	1,2,4-Trichlorobenzene	20	19.7	ug/Kg	99	7		78	127	20
	1,2,3-Trichlorobenzene	20	19.7	ug/Kg	99	11		70	137	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2484 **Analytical Method:** SW8260D

Client: CDM Smith **Datafile :** VY022970.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0708SBS01	Dichlorodifluoromethane	20	21.8	ug/Kg	109			64	136	
	Chloromethane	20	22.7	ug/Kg	114			52	151	
	Vinyl chloride	20	21.0	ug/Kg	105			56	148	
	Bromomethane	20	23.1	ug/Kg	116			58	141	
	Chloroethane	20	21.9	ug/Kg	110			69	130	
	Trichlorofluoromethane	20	21.0	ug/Kg	105			69	134	
	1,1,2-Trichlorotrifluoroethane	20	22.8	ug/Kg	114			81	123	
	1,1-Dichloroethene	20	22.3	ug/Kg	112			79	121	
	Acetone	100	160	ug/Kg	160			40	171	
	Carbon disulfide	20	21.9	ug/Kg	110			59	130	
	Methyl tert-butyl Ether	20	20.7	ug/Kg	104			77	129	
	Methyl Acetate	20	18.0	ug/Kg	90			69	149	
	Methylene Chloride	20	29.8	ug/Kg	149		*	72	131	
	trans-1,2-Dichloroethene	20	22.1	ug/Kg	111			80	123	
	1,1-Dichloroethane	20	23.1	ug/Kg	116			82	123	
	Cyclohexane	20	22.7	ug/Kg	114			76	122	
	2-Butanone	100	130	ug/Kg	130			69	131	
	Carbon Tetrachloride	20	22.3	ug/Kg	112			76	129	
	cis-1,2-Dichloroethene	20	22.1	ug/Kg	111			82	123	
	Bromochloromethane	20	22.5	ug/Kg	113			80	127	
	Chloroform	20	22.7	ug/Kg	114			82	125	
	1,1,1-Trichloroethane	20	22.6	ug/Kg	113			80	126	
	Methylcyclohexane	20	22.3	ug/Kg	112			77	123	
	Benzene	20	22.9	ug/Kg	115			84	121	
	1,2-Dichloroethane	20	22.2	ug/Kg	111			81	126	
	Trichloroethene	20	22.7	ug/Kg	114			83	122	
	1,2-Dichloropropane	20	23.3	ug/Kg	117			83	122	
	Bromodichloromethane	20	22.5	ug/Kg	113			82	123	
	4-Methyl-2-Pentanone	100	100	ug/Kg	100			70	135	
	Toluene	20	22.2	ug/Kg	111			83	122	
	t-1,3-Dichloropropene	20	21.7	ug/Kg	109			78	124	
	cis-1,3-Dichloropropene	20	22.5	ug/Kg	113			81	122	
	1,1,2-Trichloroethane	20	21.7	ug/Kg	109			82	125	
	2-Hexanone	100	120	ug/Kg	120			66	138	
	Dibromochloromethane	20	21.3	ug/Kg	106			79	125	
	1,2-Dibromoethane	20	20.9	ug/Kg	104			80	125	
	Tetrachloroethene	20	23.1	ug/Kg	116			83	125	
	Chlorobenzene	20	22.3	ug/Kg	112			84	122	
	Ethyl Benzene	20	22.5	ug/Kg	113			82	124	
	m/p-Xylenes	40	44.2	ug/Kg	111			83	124	
	o-Xylene	20	21.8	ug/Kg	109			83	123	
	Styrene	20	21.8	ug/Kg	109			82	124	
	Bromoform	20	20.2	ug/Kg	101			75	127	
	Isopropylbenzene	20	23.1	ug/Kg	116			82	124	
	1,1,2,2-Tetrachloroethane	20	21.2	ug/Kg	106			77	127	
	1,3-Dichlorobenzene	20	22.3	ug/Kg	112			83	122	
	1,4-Dichlorobenzene	20	22.4	ug/Kg	112			84	121	
	1,2-Dichlorobenzene	20	22.0	ug/Kg	110			83	124	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2484 **Analytical Method:** SW8260D

Client: CDM Smith **Datafile :** VY022970.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0708SBS01	1,2-Dibromo-3-Chloropropane	20	19.9	ug/Kg	100			66	134	
	1,2,4-Trichlorobenzene	20	20.7	ug/Kg	104			78	127	
	1,2,3-Trichlorobenzene	20	19.9	ug/Kg	100			70	137	

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VOLATILE METHOD BLANK SUMMARY

Client ID: VY0707SBL01

Lab Name: Alliance | Contract: CAMP02

Lab Code: ACE | SDG NO.: Q2484

Lab File ID: VY022947.D | Lab Sample ID: VY0707SBL01

Date Analyzed: 07/07/2025 | Time Analyzed: 09:44

GC Column: RXI-624 ID: 0.25 (mm) | Heated Purge: (Y/N) Y

Instrument ID: MSVOA_Y

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VY0707SBS01	VY0707SBS01	VY022948.D	07/07/2025
VY0707SBSD01	VY0707SBSD01	VY022949.D	07/07/2025
TP-58	Q2484-01	VY022958.D	07/07/2025
TP-57	Q2484-02	VY022959.D	07/07/2025
TP-64	Q2484-03	VY022960.D	07/07/2025
TP-107	Q2484-04	VY022961.D	07/07/2025
TP-104	Q2484-06	VY022963.D	07/07/2025

COMMENTS:

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VOLATILE METHOD BLANK SUMMARY

Client ID: VY0708SBL01

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG NO.: Q2484

Lab File ID: VY022969.D Lab Sample ID: VY0708SBL01

Date Analyzed: 07/08/2025 Time Analyzed: 11:44

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

Instrument ID: MSVOA_Y

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VY0708SBS01	VY0708SBS01	VY022970.D	07/08/2025
TP-106	Q2484-05	VY022974.D	07/08/2025

COMMENTS:

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance
Contract: CAMP02
Lab Code: ACE
SDG NO.: Q2484
Lab File ID: VY022775.D
BFB Injection Date: 06/23/2025
Instrument ID: MSVOA_Y
BFB Injection Time: 10:17
GC Column: RXI-624 ID: 0.25 (mm)
Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	22.8
75	30.0 - 60.0% of mass 95	56.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.9 (1.1) 1
174	50.0 - 100.0% of mass 95	81.9
175	5.0 - 9.0% of mass 174	6 (7.4) 1
176	95.0 - 101.0% of mass 174	78.2 (95.5) 1
177	5.0 - 9.0% of mass 176	5.1 (6.5) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC005	VSTDICC005	VY022776.D	06/23/2025	13:38
VSTDICC010	VSTDICC010	VY022777.D	06/23/2025	14:00
VSTDICC020	VSTDICC020	VY022778.D	06/23/2025	14:23
VSTDICCC050	VSTDICCC050	VY022779.D	06/23/2025	14:46
VSTDICC100	VSTDICC100	VY022780.D	06/23/2025	15:08
VSTDICC150	VSTDICC150	VY022781.D	06/23/2025	15:31

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance
Contract: CAMP02
Lab Code: ACE
SDG NO.: Q2484
Lab File ID: VY022945.D
BFB Injection Date: 07/07/2025
Instrument ID: MSVOA_Y
BFB Injection Time: 08:36
GC Column: RXI-624 ID: 0.25 (mm)
Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	20.9
75	30.0 - 60.0% of mass 95	53.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.3
173	Less than 2.0% of mass 174	1 (1.2) 1
174	50.0 - 100.0% of mass 95	84
175	5.0 - 9.0% of mass 174	6.1 (7.2) 1
176	95.0 - 101.0% of mass 174	79.8 (95) 1
177	5.0 - 9.0% of mass 176	5.4 (6.8) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VY022946.D	07/07/2025	09:08
VY0707SBL01	VY0707SBL01	VY022947.D	07/07/2025	09:44
VY0707SBS01	VY0707SBS01	VY022948.D	07/07/2025	10:17
VY0707SBSD01	VY0707SBSD01	VY022949.D	07/07/2025	10:40
TP-58	Q2484-01	VY022958.D	07/07/2025	14:25
TP-57	Q2484-02	VY022959.D	07/07/2025	14:48
TP-64	Q2484-03	VY022960.D	07/07/2025	15:12
TP-107	Q2484-04	VY022961.D	07/07/2025	15:35
TP-104	Q2484-06	VY022963.D	07/07/2025	16:22

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance
Contract: CAMP02
Lab Code: ACE
SDG NO.: Q2484
Lab File ID: VY022967.D
BFB Injection Date: 07/08/2025
Instrument ID: MSVOA_Y
BFB Injection Time: 08:30
GC Column: RXI-624 ID: 0.25 (mm)
Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	21.4
75	30.0 - 60.0% of mass 95	54.7
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	1 (1.2) 1
174	50.0 - 100.0% of mass 95	83.3
175	5.0 - 9.0% of mass 174	6.1 (7.3) 1
176	95.0 - 101.0% of mass 174	80.1 (96.2) 1
177	5.0 - 9.0% of mass 176	5.3 (6.6) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VY022968.D	07/08/2025	11:15
VY0708SBL01	VY0708SBL01	VY022969.D	07/08/2025	11:44
VY0708SBS01	VY0708SBS01	VY022970.D	07/08/2025	12:12
TP-106	Q2484-05	VY022974.D	07/08/2025	14:40

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG NO.: Q2484

Lab File ID: VY022946.D Date Analyzed: 07/07/2025

Instrument ID: MSVOA_Y Time Analyzed: 09:08

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	469181	7.71	754142	8.62	648632	11.41
UPPER LIMIT	938362	8.207	1508280	9.116	1297260	11.914
LOWER LIMIT	234591	7.207	377071	8.116	324316	10.914
EPA SAMPLE NO.						
TP-58	303940	7.71	573765	8.62	578554	11.41
TP-57	301710	7.71	565210	8.62	552333	11.41
TP-64	287261	7.71	532666	8.62	486729	11.41
TP-107	324819	7.71	601393	8.62	567117	11.41
TP-104	266886	7.71	509158	8.62	510222	11.41
VY0707SBL01	359794	7.71	659995	8.62	632698	11.41
VY0707SBS01	438661	7.71	730129	8.61	612594	11.41
VY0707SBSD01	433247	7.71	718134	8.62	614643	11.41

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG NO.: Q2484

Lab File ID: VY022946.D Date Analyzed: 07/07/2025

Instrument ID: MSVOA_Y Time Analyzed: 09:08

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS4 AREA #	RT #				
12 HOUR STD	317038	13.347				
UPPER LIMIT	634076	13.847				
LOWER LIMIT	158519	12.847				
EPA SAMPLE NO.						
TP-58	249732	13.34				
TP-57	223902	13.34				
TP-64	165608	13.34				
TP-107	236634	13.34				
TP-104	229337	13.35				
VY0707SBL01	266428	13.35				
VY0707SBS01	286401	13.35				
VY0707SBSD01	290747	13.34				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG NO.: Q2484

Lab File ID: VY022968.D Date Analyzed: 07/08/2025

Instrument ID: MSVOA_Y Time Analyzed: 11:15

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	422213	7.71	699147	8.62	604420	11.41
UPPER LIMIT	844426	8.207	1398290	9.116	1208840	11.914
LOWER LIMIT	211107	7.207	349574	8.116	302210	10.914
EPA SAMPLE NO.						
TP-106	295032	7.71	579416	8.62	569839	11.41
VY0708SBL01	314896	7.71	593436	8.62	582188	11.41
VY0708SBS01	371442	7.71	616012	8.62	524718	11.41

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG NO.: Q2484

Lab File ID: VY022968.D Date Analyzed: 07/08/2025

Instrument ID: MSVOA_Y Time Analyzed: 11:15

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS4 AREA #	RT #				
12 HOUR STD	299896	13.347				
UPPER LIMIT	599792	13.847				
LOWER LIMIT	149948	12.847				
EPA SAMPLE NO.						
TP-106	250116	13.34				
VY0708SBL01	250516	13.34				
VY0708SBS01	246530	13.34				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

QC SAMPLE DATA

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0707SBL01	SDG No.:	Q2484
Lab Sample ID:	VY0707SBL01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022947.D	1	07/07/25 09:44	VY070725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.10	U	1.10	5.00	ug/Kg
74-87-3	Chloromethane	1.10	U	1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	0.79	U	0.79	5.00	ug/Kg
74-83-9	Bromomethane	1.10	U	1.10	5.00	ug/Kg
75-00-3	Chloroethane	1.30	U	1.30	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	1.20	U	1.20	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.10	U	1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	1.00	U	1.00	5.00	ug/Kg
67-64-1	Acetone	4.70	U	4.70	25.0	ug/Kg
75-15-0	Carbon Disulfide	1.10	U	1.10	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.73	U	0.73	5.00	ug/Kg
79-20-9	Methyl Acetate	1.50	U	1.50	5.00	ug/Kg
75-09-2	Methylene Chloride	3.50	U	3.50	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.86	U	0.86	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	0.80	U	0.80	5.00	ug/Kg
110-82-7	Cyclohexane	0.79	U	0.79	5.00	ug/Kg
78-93-3	2-Butanone	6.50	U	6.50	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	0.97	U	0.97	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.75	5.00	ug/Kg
74-97-5	Bromochloromethane	1.20	U	1.20	5.00	ug/Kg
67-66-3	Chloroform	0.84	U	0.84	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.93	U	0.93	5.00	ug/Kg
108-87-2	Methylcyclohexane	0.91	U	0.91	5.00	ug/Kg
71-43-2	Benzene	0.79	U	0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	0.79	U	0.79	5.00	ug/Kg
79-01-6	Trichloroethene	0.81	U	0.81	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	0.91	U	0.91	5.00	ug/Kg
75-27-4	Bromodichloromethane	0.78	U	0.78	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.60	U	3.60	25.0	ug/Kg
108-88-3	Toluene	0.78	U	0.78	5.00	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0707SBL01	SDG No.:	Q2484
Lab Sample ID:	VY0707SBL01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022947.D	1	07/07/25 09:44	VY070725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.65	U	0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.62	U	0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.92	U	0.92	5.00	ug/Kg
591-78-6	2-Hexanone	3.70	U	3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	0.87	U	0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	0.88	U	0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	1.10	U	1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	0.91	U	0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	0.67	U	0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	1.20	U	1.20	10.0	ug/Kg
95-47-6	o-Xylene	0.82	U	0.82	5.00	ug/Kg
100-42-5	Styrene	0.71	U	0.71	5.00	ug/Kg
75-25-2	Bromoform	0.86	U	0.86	5.00	ug/Kg
98-82-8	Isopropylbenzene	0.78	U	0.78	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.20	U	1.20	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.70	U	1.70	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.60	U	1.60	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.50	U	1.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.80	U	1.80	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	3.00	U	3.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	3.20	U	3.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	45.7		63 - 155	91%	SPK: 50
1868-53-7	Dibromofluoromethane	50.4		70 - 134	101%	SPK: 50
2037-26-5	Toluene-d8	50.9		74 - 123	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.3		17 - 146	107%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	360000	7.707			
540-36-3	1,4-Difluorobenzene	660000	8.616			
3114-55-4	Chlorobenzene-d5	633000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	266000	13.346			

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0707SBL01	SDG No.:	Q2484
Lab Sample ID:	VY0707SBL01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022947.D	1	07/07/25 09:44	VY070725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0708SBL01	SDG No.:	Q2484
Lab Sample ID:	VY0708SBL01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022969.D	1	07/08/25 11:44	VY070825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.10	U	1.10	5.00	ug/Kg
74-87-3	Chloromethane	1.10	U	1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	0.79	U	0.79	5.00	ug/Kg
74-83-9	Bromomethane	1.10	U	1.10	5.00	ug/Kg
75-00-3	Chloroethane	1.30	U	1.30	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	1.20	U	1.20	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.10	U	1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	1.00	U	1.00	5.00	ug/Kg
67-64-1	Acetone	4.70	U	4.70	25.0	ug/Kg
75-15-0	Carbon Disulfide	1.10	U	1.10	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.73	U	0.73	5.00	ug/Kg
79-20-9	Methyl Acetate	1.50	U	1.50	5.00	ug/Kg
75-09-2	Methylene Chloride	3.50	U	3.50	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.86	U	0.86	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	0.80	U	0.80	5.00	ug/Kg
110-82-7	Cyclohexane	0.79	U	0.79	5.00	ug/Kg
78-93-3	2-Butanone	6.50	U	6.50	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	0.97	U	0.97	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.75	5.00	ug/Kg
74-97-5	Bromochloromethane	1.20	U	1.20	5.00	ug/Kg
67-66-3	Chloroform	0.84	U	0.84	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.93	U	0.93	5.00	ug/Kg
108-87-2	Methylcyclohexane	0.91	U	0.91	5.00	ug/Kg
71-43-2	Benzene	0.79	U	0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	0.79	U	0.79	5.00	ug/Kg
79-01-6	Trichloroethene	0.81	U	0.81	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	0.91	U	0.91	5.00	ug/Kg
75-27-4	Bromodichloromethane	0.78	U	0.78	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.60	U	3.60	25.0	ug/Kg
108-88-3	Toluene	0.78	U	0.78	5.00	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0708SBL01	SDG No.:	Q2484
Lab Sample ID:	VY0708SBL01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022969.D	1	07/08/25 11:44	VY070825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.65	U	0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.62	U	0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.92	U	0.92	5.00	ug/Kg
591-78-6	2-Hexanone	3.70	U	3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	0.87	U	0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	0.88	U	0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	1.10	U	1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	0.91	U	0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	0.67	U	0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	1.20	U	1.20	10.0	ug/Kg
95-47-6	o-Xylene	0.82	U	0.82	5.00	ug/Kg
100-42-5	Styrene	0.71	U	0.71	5.00	ug/Kg
75-25-2	Bromoform	0.86	U	0.86	5.00	ug/Kg
98-82-8	Isopropylbenzene	0.78	U	0.78	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.20	U	1.20	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.70	U	1.70	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.60	U	1.60	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.50	U	1.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.80	U	1.80	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	3.00	U	3.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	3.20	U	3.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.7		63 - 155	99%	SPK: 50
1868-53-7	Dibromofluoromethane	51.2		70 - 134	102%	SPK: 50
2037-26-5	Toluene-d8	50.8		74 - 123	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	54.9		17 - 146	110%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	315000	7.707			
540-36-3	1,4-Difluorobenzene	593000	8.616			
3114-55-4	Chlorobenzene-d5	582000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	251000	13.34			

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0708SBL01	SDG No.:	Q2484
Lab Sample ID:	VY0708SBL01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022969.D	1	07/08/25 11:44	VY070825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0707SBS01	SDG No.:	Q2484
Lab Sample ID:	VY0707SBS01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022948.D	1	07/07/25 10:17	VY070725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	20.3		1.10	5.00	ug/Kg
74-87-3	Chloromethane	19.1		1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	18.8		0.79	5.00	ug/Kg
74-83-9	Bromomethane	18.8		1.10	5.00	ug/Kg
75-00-3	Chloroethane	19.0		1.30	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	19.1		1.20	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	21.3		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	20.8		1.00	5.00	ug/Kg
67-64-1	Acetone	140		4.70	25.0	ug/Kg
75-15-0	Carbon Disulfide	20.7		1.10	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	18.4		0.73	5.00	ug/Kg
79-20-9	Methyl Acetate	16.6		1.50	5.00	ug/Kg
75-09-2	Methylene Chloride	28.4		3.50	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	20.6		0.86	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	21.3		0.80	5.00	ug/Kg
110-82-7	Cyclohexane	21.0		0.79	5.00	ug/Kg
78-93-3	2-Butanone	110		6.50	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	21.2		0.97	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	20.0		0.75	5.00	ug/Kg
74-97-5	Bromochloromethane	20.2		1.20	5.00	ug/Kg
67-66-3	Chloroform	20.5		0.84	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	21.0		0.93	5.00	ug/Kg
108-87-2	Methylcyclohexane	20.7		0.91	5.00	ug/Kg
71-43-2	Benzene	20.7		0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	19.5		0.79	5.00	ug/Kg
79-01-6	Trichloroethene	21.4		0.81	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	20.8		0.91	5.00	ug/Kg
75-27-4	Bromodichloromethane	20.3		0.78	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	87.9		3.60	25.0	ug/Kg
108-88-3	Toluene	20.5		0.78	5.00	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0707SBS01	SDG No.:	Q2484
Lab Sample ID:	VY0707SBS01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022948.D	1	07/07/25 10:17	VY070725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	19.3		0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	20.0		0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	19.3		0.92	5.00	ug/Kg
591-78-6	2-Hexanone	97.0		3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	19.3		0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	18.6		0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	22.3		1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	20.7		0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	20.7		0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	41.4		1.20	10.0	ug/Kg
95-47-6	o-Xylene	20.3		0.82	5.00	ug/Kg
100-42-5	Styrene	19.8		0.71	5.00	ug/Kg
75-25-2	Bromoform	18.3		0.86	5.00	ug/Kg
98-82-8	Isopropylbenzene	21.5		0.78	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	18.3		1.20	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	20.7		1.70	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	20.5		1.60	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	20.1		1.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	16.8		1.80	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	18.4		3.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	17.7		3.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	46.9		63 - 155	94%	SPK: 50
1868-53-7	Dibromofluoromethane	49.5		70 - 134	99%	SPK: 50
2037-26-5	Toluene-d8	50.4		74 - 123	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.0		17 - 146	94%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	439000	7.707			
540-36-3	1,4-Difluorobenzene	730000	8.609			
3114-55-4	Chlorobenzene-d5	613000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	286000	13.346			

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0707SBS01	SDG No.:	Q2484
Lab Sample ID:	VY0707SBS01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022948.D	1	07/07/25 10:17	VY070725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0708SBS01	SDG No.:	Q2484
Lab Sample ID:	VY0708SBS01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022970.D	1	07/08/25 12:12	VY070825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	21.8		1.10	5.00	ug/Kg
74-87-3	Chloromethane	22.7		1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	21.0		0.79	5.00	ug/Kg
74-83-9	Bromomethane	23.1		1.10	5.00	ug/Kg
75-00-3	Chloroethane	21.9		1.30	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	21.0		1.20	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	22.8		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	22.3		1.00	5.00	ug/Kg
67-64-1	Acetone	160		4.70	25.0	ug/Kg
75-15-0	Carbon Disulfide	21.9		1.10	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	20.7		0.73	5.00	ug/Kg
79-20-9	Methyl Acetate	18.0		1.50	5.00	ug/Kg
75-09-2	Methylene Chloride	29.8		3.50	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	22.1		0.86	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	23.1		0.80	5.00	ug/Kg
110-82-7	Cyclohexane	22.7		0.79	5.00	ug/Kg
78-93-3	2-Butanone	130		6.50	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	22.3		0.97	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	22.1		0.75	5.00	ug/Kg
74-97-5	Bromochloromethane	22.5		1.20	5.00	ug/Kg
67-66-3	Chloroform	22.7		0.84	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	22.6		0.93	5.00	ug/Kg
108-87-2	Methylcyclohexane	22.3		0.91	5.00	ug/Kg
71-43-2	Benzene	22.9		0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	22.2		0.79	5.00	ug/Kg
79-01-6	Trichloroethene	22.7		0.81	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	23.3		0.91	5.00	ug/Kg
75-27-4	Bromodichloromethane	22.5		0.78	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	100		3.60	25.0	ug/Kg
108-88-3	Toluene	22.2		0.78	5.00	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0708SBS01	SDG No.:	Q2484
Lab Sample ID:	VY0708SBS01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022970.D	1	07/08/25 12:12	VY070825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	21.7		0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	22.5		0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	21.7		0.92	5.00	ug/Kg
591-78-6	2-Hexanone	120		3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	21.3		0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	20.9		0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	23.1		1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	22.3		0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	22.5		0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	44.2		1.20	10.0	ug/Kg
95-47-6	o-Xylene	21.8		0.82	5.00	ug/Kg
100-42-5	Styrene	21.8		0.71	5.00	ug/Kg
75-25-2	Bromoform	20.2		0.86	5.00	ug/Kg
98-82-8	Isopropylbenzene	23.1		0.78	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	21.2		1.20	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	22.3		1.70	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	22.4		1.60	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	22.0		1.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	19.9		1.80	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	20.7		3.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	19.9		3.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	52.0		63 - 155	104%	SPK: 50
1868-53-7	Dibromofluoromethane	54.0		70 - 134	108%	SPK: 50
2037-26-5	Toluene-d8	53.5		74 - 123	107%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.5		17 - 146	103%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	371000	7.707			
540-36-3	1,4-Difluorobenzene	616000	8.616			
3114-55-4	Chlorobenzene-d5	525000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	247000	13.34			

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Fax : 908 789 8922

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0708SBS01	SDG No.:	Q2484
Lab Sample ID:	VY0708SBS01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022970.D	1	07/08/25 12:12	VY070825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0707SBSD01	SDG No.:	Q2484
Lab Sample ID:	VY0707SBSD01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022949.D	1	07/07/25 10:40	VY070725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	20.5		1.10	5.00	ug/Kg
74-87-3	Chloromethane	19.3		1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	18.7		0.79	5.00	ug/Kg
74-83-9	Bromomethane	19.0		1.10	5.00	ug/Kg
75-00-3	Chloroethane	19.2		1.30	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	19.2		1.20	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	21.8		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	21.0		1.00	5.00	ug/Kg
67-64-1	Acetone	150		4.70	25.0	ug/Kg
75-15-0	Carbon Disulfide	20.7		1.10	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	19.7		0.73	5.00	ug/Kg
79-20-9	Methyl Acetate	17.0		1.50	5.00	ug/Kg
75-09-2	Methylene Chloride	34.4		3.50	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	20.5		0.86	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	21.4		0.80	5.00	ug/Kg
110-82-7	Cyclohexane	21.0		0.79	5.00	ug/Kg
78-93-3	2-Butanone	120		6.50	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	21.1		0.97	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	20.6		0.75	5.00	ug/Kg
74-97-5	Bromochloromethane	21.5		1.20	5.00	ug/Kg
67-66-3	Chloroform	20.9		0.84	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	21.3		0.93	5.00	ug/Kg
108-87-2	Methylcyclohexane	21.0		0.91	5.00	ug/Kg
71-43-2	Benzene	21.3		0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	20.3		0.79	5.00	ug/Kg
79-01-6	Trichloroethene	21.1		0.81	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	21.7		0.91	5.00	ug/Kg
75-27-4	Bromodichloromethane	20.7		0.78	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	99.0		3.60	25.0	ug/Kg
108-88-3	Toluene	20.9		0.78	5.00	ug/Kg

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0707SBSD01	SDG No.:	Q2484
Lab Sample ID:	VY0707SBSD01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022949.D	1	07/07/25 10:40	VY070725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	20.2		0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	21.4		0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	20.3		0.92	5.00	ug/Kg
591-78-6	2-Hexanone	110		3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	20.2		0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	19.9		0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	21.4		1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	20.9		0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	20.7		0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	41.4		1.20	10.0	ug/Kg
95-47-6	o-Xylene	20.1		0.82	5.00	ug/Kg
100-42-5	Styrene	20.1		0.71	5.00	ug/Kg
75-25-2	Bromoform	19.5		0.86	5.00	ug/Kg
98-82-8	Isopropylbenzene	21.3		0.78	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	21.0		1.20	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	21.2		1.70	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	21.0		1.60	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	20.8		1.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	18.7		1.80	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	19.7		3.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	19.7		3.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	47.9		63 - 155	96%	SPK: 50
1868-53-7	Dibromofluoromethane	50.4		70 - 134	101%	SPK: 50
2037-26-5	Toluene-d8	50.1		74 - 123	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.4		17 - 146	97%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	433000	7.707			
540-36-3	1,4-Difluorobenzene	718000	8.615			
3114-55-4	Chlorobenzene-d5	615000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	291000	13.34			

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0707SBSD01	SDG No.:	Q2484
Lab Sample ID:	VY0707SBSD01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022949.D	1	07/07/25 10:40	VY070725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

CALIBRATION SUMMARY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance | Contract: CAMP02

Lab Code: ACE | SDG No.: Q2484

Instrument ID: MSVOA_Y | Calibration Date(s): 06/23/2025 06/23/2025

Heated Purge: (Y/N) Y | Calibration Time(s): 13:38 15:31

GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID: RRF005 = VY022776.D RRF010 = VY022777.D RRF020 = VY022778.D
RRF050 = VY022779.D RRF100 = VY022780.D RRF150 = VY022781.D

COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.424	0.456	0.474	0.424	0.404	0.384	0.428	7.7
Chloromethane	0.837	0.921	0.865	0.793	0.758	0.724	0.816	8.9
Vinyl Chloride	0.934	1.099	1.091	1.045	0.993	0.958	1.020	6.8
Bromomethane	0.784	0.885	0.854	0.771	0.760	0.756	0.802	6.8
Chloroethane	0.649	0.736	0.722	0.694	0.673	0.640	0.686	5.6
Trichlorofluoromethane	0.999	1.180	1.219	1.166	1.127	1.085	1.129	7
1,1,2-Trichlorotrifluoroethane	0.508	0.560	0.547	0.515	0.492	0.474	0.516	6.3
1,1-Dichloroethene	0.478	0.539	0.524	0.514	0.500	0.483	0.506	4.7
Acetone	0.117	0.124	0.114	0.095	0.096	0.087	0.105	13.9
Carbon Disulfide	1.516	1.705	1.731	1.667	1.625	1.566	1.635	5.1
Methyl tert-butyl Ether	1.173	1.398	1.396	1.435	1.460	1.405	1.378	7.5
Methyl Acetate	0.272	0.358	0.440	0.351	0.353	0.322	0.349	15.7
Methylene Chloride	0.840	0.777	0.664	0.590	0.578	0.548	0.666	17.7
trans-1,2-Dichloroethene	0.521	0.604	0.597	0.592	0.581	0.575	0.578	5.2
1,1-Dichloroethane	0.949	1.075	1.079	1.077	1.055	1.030	1.044	4.8
Cyclohexane	0.998	1.021	0.988	0.946	0.905	0.894	0.959	5.4
2-Butanone	0.145	0.160	0.160	0.153	0.156	0.147	0.154	4.4
Carbon Tetrachloride	0.439	0.498	0.507	0.491	0.492	0.491	0.486	5
cis-1,2-Dichloroethene	0.606	0.689	0.687	0.685	0.687	0.678	0.672	4.8
Bromochloromethane	0.437	0.431	0.437	0.459	0.443	0.427	0.439	2.6
Chloroform	0.986	1.130	1.099	1.096	1.084	1.059	1.076	4.6
1,1,1-Trichloroethane	0.847	0.945	0.973	0.950	0.939	0.923	0.929	4.7
Methylcyclohexane	0.543	0.589	0.610	0.618	0.608	0.611	0.596	4.7
Benzene	1.248	1.433	1.451	1.464	1.467	1.440	1.417	5.9
1,2-Dichloroethane	0.335	0.397	0.402	0.400	0.404	0.392	0.388	6.8
Trichloroethene	0.305	0.364	0.382	0.372	0.360	0.350	0.356	7.6
1,2-Dichloropropane	0.289	0.339	0.345	0.339	0.341	0.337	0.332	6.4
Bromodichloromethane	0.422	0.495	0.496	0.498	0.504	0.498	0.485	6.4
4-Methyl-2-Pentanone	0.168	0.201	0.215	0.226	0.230	0.221	0.210	10.9
Toluene	0.747	0.873	0.908	0.926	0.955	0.954	0.894	8.8

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance | Contract: CAMP02

Lab Code: ACE | SDG No.: Q2484

Instrument ID: MSVOA_Y | Calibration Date(s): 06/23/2025 06/23/2025

Heated Purge: (Y/N) Y | Calibration Time(s): 13:38 15:31

GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID: RRF005 = VY022776.D RRF010 = VY022777.D RRF020 = VY022778.D
RRF050 = VY022779.D RRF100 = VY022780.D RRF150 = VY022781.D

COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
t-1,3-Dichloropropene	0.355	0.430	0.438	0.451	0.473	0.473	0.437	10
cis-1,3-Dichloropropene	0.412	0.503	0.523	0.524	0.540	0.538	0.506	9.6
1,1,2-Trichloroethane	0.207	0.249	0.249	0.253	0.255	0.250	0.244	7.4
2-Hexanone	0.115	0.140	0.145	0.151	0.157	0.149	0.143	10.5
Dibromochloromethane	0.260	0.315	0.321	0.329	0.336	0.329	0.315	8.8
1,2-Dibromoethane	0.193	0.231	0.229	0.237	0.244	0.236	0.228	7.8
Tetrachloroethene	0.399	0.465	0.535	0.515	0.473	0.446	0.472	10.3
Chlorobenzene	0.981	1.110	1.131	1.126	1.130	1.114	1.099	5.3
Ethyl Benzene	1.644	1.881	1.971	2.029	2.040	2.018	1.930	7.9
m/p-Xylenes	0.624	0.722	0.759	0.782	0.800	0.791	0.746	8.8
o-Xylene	0.578	0.674	0.708	0.734	0.759	0.765	0.703	10
Styrene	0.926	1.108	1.165	1.249	1.309	1.309	1.178	12.5
Bromoform	0.178	0.204	0.203	0.212	0.225	0.220	0.207	8
Isopropylbenzene	3.354	3.764	3.823	3.778	3.709	3.759	3.698	4.7
1,1,2,2-Tetrachloroethane	0.597	0.659	0.566	0.567	0.594	0.593	0.596	5.6
1,3-Dichlorobenzene	1.546	1.660	1.692	1.708	1.750	1.744	1.683	4.5
1,4-Dichlorobenzene	1.564	1.740	1.688	1.685	1.690	1.666	1.672	3.5
1,2-Dichlorobenzene	1.395	1.488	1.502	1.499	1.515	1.502	1.483	3
1,2-Dibromo-3-Chloropropane	0.102	0.101	0.103	0.103	0.102	0.096	0.101	2.7
1,2,4-Trichlorobenzene	0.778	0.841	0.848	0.843	0.871	0.845	0.838	3.7
1,2,3-Trichlorobenzene	0.679	0.723	0.735	0.728	0.751	0.727	0.724	3.3
1,2-Dichloroethane-d4	0.568	0.550	0.557	0.559	0.571	0.545	0.558	1.8
Dibromofluoromethane	0.306	0.297	0.295	0.304	0.314	0.308	0.304	2.3
Toluene-d8	1.182	1.148	1.186	1.215	1.262	1.247	1.207	3.6
4-Bromofluorobenzene	0.368	0.362	0.370	0.385	0.423	0.421	0.388	7

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance
Contract: CAMP02
Lab Code: ACE
SDG No.: Q2484
Instrument ID: MSVOA_Y
Calibration Date/Time: 07/07/2025 09:08
Lab File ID: VY022946.D
Init. Calib. Date(s): 06/23/2025 06/23/2025
Heated Purge: (Y/N) Y
Init. Calib. Time(s): 13:38 15:31
GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.428	0.380		-11.22	20
Chloromethane	0.816	0.771	0.1	-5.51	20
Vinyl Chloride	1.020	0.912		-10.59	20
Bromomethane	0.802	0.649		-19.08	20
Chloroethane	0.686	0.623		-9.18	20
Trichlorofluoromethane	1.129	1.008		-10.72	20
1,1,2-Trichlorotrifluoroethane	0.516	0.504		-2.33	20
1,1-Dichloroethene	0.506	0.485		-4.15	20
Acetone	0.105	0.125		19.05	20
Carbon Disulfide	1.635	1.542		-5.69	20
Methyl tert-butyl Ether	1.378	1.304		-5.37	20
Methyl Acetate	0.349	0.311		-10.89	20
Methylene Chloride	0.666	0.591		-11.26	20
trans-1,2-Dichloroethene	0.578	0.557		-3.63	20
1,1-Dichloroethane	1.044	1.033	0.1	-1.05	20
Cyclohexane	0.959	0.918		-4.28	20
2-Butanone	0.154	0.158		2.6	20
Carbon Tetrachloride	0.486	0.497		2.26	20
cis-1,2-Dichloroethene	0.672	0.646		-3.87	20
Bromochloromethane	0.439	0.443		0.91	20
Chloroform	1.076	1.037		-3.54	20
1,1,1-Trichloroethane	0.929	0.915		-1.51	20
Methylcyclohexane	0.596	0.610		2.35	20
Benzene	1.417	1.451		2.4	20
1,2-Dichloroethane	0.388	0.385		-0.77	20
Trichloroethene	0.356	0.363		1.97	20
1,2-Dichloropropane	0.332	0.341		2.71	20
Bromodichloromethane	0.485	0.491		1.24	20
4-Methyl-2-Pentanone	0.210	0.217		3.33	20
Toluene	0.894	0.904		1.12	20
t-1,3-Dichloropropene	0.437	0.448		2.52	20
cis-1,3-Dichloropropene	0.506	0.524		3.56	20
1,1,2-Trichloroethane	0.244	0.246		0.82	20
2-Hexanone	0.143	0.151		5.59	20
Dibromochloromethane	0.315	0.319		1.27	20
1,2-Dibromoethane	0.228	0.227		-0.44	20
Tetrachloroethene	0.472	0.483		2.33	20
Chlorobenzene	1.099	1.117	0.3	1.64	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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Fax : 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance | Contract: CAMP02

Lab Code: ACE | SDG No.: Q2484

Instrument ID: MSVOA_Y | Calibration Date/Time: 07/07/2025 09:08

Lab File ID: VY022946.D | Init. Calib. Date(s): 06/23/2025 06/23/2025

Heated Purge: (Y/N) Y | Init. Calib. Time(s): 13:38 15:31

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.930	2.005		3.89	20
m/p-Xylenes	0.746	0.775		3.89	20
o-Xylene	0.703	0.715		1.71	20
Styrene	1.178	1.211		2.8	20
Bromoform	0.207	0.206	0.1	-0.48	20
Isopropylbenzene	3.698	3.864		4.49	20
1,1,2,2-Tetrachloroethane	0.596	0.609	0.3	2.18	20
1,3-Dichlorobenzene	1.683	1.729		2.73	20
1,4-Dichlorobenzene	1.672	1.691		1.14	20
1,2-Dichlorobenzene	1.483	1.504		1.42	20
1,2-Dibromo-3-Chloropropane	0.101	0.101		0	20
1,2,4-Trichlorobenzene	0.838	0.846		0.95	20
1,2,3-Trichlorobenzene	0.724	0.712		-1.66	20
1,2-Dichloroethane-d4	0.558	0.526		-5.74	20
Dibromofluoromethane	0.304	0.304		0	20
Toluene-d8	1.207	1.210		0.25	20
4-Bromofluorobenzene	0.388	0.394		1.55	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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Fax : 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance | Contract: CAMP02

Lab Code: ACE | SDG No.: Q2484

Instrument ID: MSVOA_Y | Calibration Date/Time: 07/08/2025 11:15

Lab File ID: VY022968.D | Init. Calib. Date(s): 06/23/2025 06/23/2025

Heated Purge: (Y/N) Y | Init. Calib. Time(s): 13:38 15:31

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.428	0.354		-17.29	20
Chloromethane	0.816	0.814	0.1	-0.25	20
Vinyl Chloride	1.020	0.965		-5.39	20
Bromomethane	0.802	0.764		-4.74	20
Chloroethane	0.686	0.670		-2.33	20
Trichlorofluoromethane	1.129	1.053		-6.73	20
1,1,2-Trichlorotrifluoroethane	0.516	0.487		-5.62	20
1,1-Dichloroethene	0.506	0.476		-5.93	20
Acetone	0.105	0.122		16.19	20
Carbon Disulfide	1.635	1.468		-10.21	20
Methyl tert-butyl Ether	1.378	1.374		-0.29	20
Methyl Acetate	0.349	0.354		1.43	20
Methylene Chloride	0.666	0.638		-4.2	20
trans-1,2-Dichloroethene	0.578	0.544		-5.88	20
1,1-Dichloroethane	1.044	1.034	0.1	-0.96	20
Cyclohexane	0.959	0.901		-6.05	20
2-Butanone	0.154	0.165		7.14	20
Carbon Tetrachloride	0.486	0.476		-2.06	20
cis-1,2-Dichloroethene	0.672	0.641		-4.61	20
Bromochloromethane	0.439	0.454		3.42	20
Chloroform	1.076	1.046		-2.7	20
1,1,1-Trichloroethane	0.929	0.902		-2.91	20
Methylcyclohexane	0.596	0.582		-2.35	20
Benzene	1.417	1.404		-0.92	20
1,2-Dichloroethane	0.388	0.393		1.29	20
Trichloroethene	0.356	0.347		-2.53	20
1,2-Dichloropropane	0.332	0.337		1.51	20
Bromodichloromethane	0.485	0.482		-0.62	20
4-Methyl-2-Pentanone	0.210	0.230		9.52	20
Toluene	0.894	0.893		-0.11	20
t-1,3-Dichloropropene	0.437	0.444		1.6	20
cis-1,3-Dichloropropene	0.506	0.518		2.37	20
1,1,2-Trichloroethane	0.244	0.245		0.41	20
2-Hexanone	0.143	0.158		10.49	20
Dibromochloromethane	0.315	0.313		-0.63	20
1,2-Dibromoethane	0.228	0.231		1.32	20
Tetrachloroethene	0.472	0.449		-4.87	20
Chlorobenzene	1.099	1.090	0.3	-0.82	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG No.: Q2484

Instrument ID: MSVOA_Y Calibration Date/Time: 07/08/2025 11:15

Lab File ID: VY022968.D Init. Calib. Date(s): 06/23/2025 06/23/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 13:38 15:31

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.930	1.941		0.57	20
m/p-Xylenes	0.746	0.752		0.8	20
o-Xylene	0.703	0.706		0.43	20
Styrene	1.178	1.195		1.44	20
Bromoform	0.207	0.210	0.1	1.45	20
Isopropylbenzene	3.698	3.689		-0.24	20
1,1,2,2-Tetrachloroethane	0.596	0.621	0.3	4.2	20
1,3-Dichlorobenzene	1.683	1.671		-0.71	20
1,4-Dichlorobenzene	1.672	1.637		-2.09	20
1,2-Dichlorobenzene	1.483	1.455		-1.89	20
1,2-Dibromo-3-Chloropropane	0.101	0.103		1.98	20
1,2,4-Trichlorobenzene	0.838	0.807		-3.7	20
1,2,3-Trichlorobenzene	0.724	0.692		-4.42	20
1,2-Dichloroethane-d4	0.558	0.544		-2.51	20
Dibromofluoromethane	0.304	0.301		-0.99	20
Toluene-d8	1.207	1.196		-0.91	20
4-Bromofluorobenzene	0.388	0.385		-0.77	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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LAB CHRONICLE

OrderID:	Q2484	**OrderDate:**	7/2/2025 9:23:00 AM
Client:	CDM Smith	**Project:**	South River WM Replacement
Contact:	Marcie Ann Encinas	**Location:**	--Select--,A12,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2484-01	**TP-58**	**SOIL**			**07/01/25**			**07/01/25**
			SVOC-TCL BNA -20	8270E		07/02/25	07/07/25	
Q2484-01DL	**TP-58DL**	**SOIL**			**07/01/25**			**07/01/25**
			SVOC-TCL BNA -20	8270E		07/02/25	07/08/25	
Q2484-02	**TP-57**	**SOIL**			**07/01/25**			**07/01/25**
			SVOC-TCL BNA -20	8270E		07/02/25	07/03/25	
Q2484-03	**TP-64**	**SOIL**			**07/01/25**			**07/01/25**
			SVOC-TCL BNA -20	8270E		07/02/25	07/07/25	
Q2484-04	**TP-107**	**SOIL**			**07/01/25**			**07/01/25**
			SVOC-TCL BNA -20	8270E		07/02/25	07/03/25	
Q2484-05	**TP-106**	**SOIL**			**07/01/25**			**07/01/25**
			SVOC-TCL BNA -20	8270E		07/02/25	07/03/25	
Q2484-06	**TP-104**	**SOIL**			**07/01/25**			**07/01/25**
			SVOC-TCL BNA -20	8270E		07/02/25	07/03/25	

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Hit Summary Sheet
SW-846

SDG No.: Q2484

Client: CDM Smith

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Client ID :	**TP-58**								
Q2484-01	TP-58	SOIL	Naphthalene		140.000	J	26.3	200	ug/Kg
Q2484-01	TP-58	SOIL	2-Methylnaphthalene		170.000	J	29.7	200	ug/Kg
Q2484-01	TP-58	SOIL	1,1-Biphenyl		130.000	J	25.3	200	ug/Kg
Q2484-01	TP-58	SOIL	Acenaphthylene		230.000		33.5	200	ug/Kg
Q2484-01	TP-58	SOIL	Acenaphthene		510.000		24.7	200	ug/Kg
Q2484-01	TP-58	SOIL	Dibenzofuran		1,200.000		26.3	200	ug/Kg
Q2484-01	TP-58	SOIL	Fluorene		1,500.000		29.3	200	ug/Kg
Q2484-01	TP-58	SOIL	Phenanthrene		8,100.000	E	24.2	200	ug/Kg
Q2484-01	TP-58	SOIL	Anthracene		1,600.000		38.6	200	ug/Kg
Q2484-01	TP-58	SOIL	Carbazole		900.000		36.2	200	ug/Kg
Q2484-01	TP-58	SOIL	Fluoranthene		10,800.000	E	34.8	200	ug/Kg
Q2484-01	TP-58	SOIL	Pyrene		6,200.000	E	41.7	200	ug/Kg
Q2484-01	TP-58	SOIL	Benzo(a)anthracene		4,400.000	E	26.7	200	ug/Kg
Q2484-01	TP-58	SOIL	Chrysene		3,600.000	E	23.1	200	ug/Kg
Q2484-01	TP-58	SOIL	Benzo(b)fluoranthene		5,000.000	E	22	200	ug/Kg
Q2484-01	TP-58	SOIL	Benzo(k)fluoranthene		2,100.000		26	200	ug/Kg
Q2484-01	TP-58	SOIL	Benzo(a)pyrene		3,300.000	E	34.2	200	ug/Kg
Q2484-01	TP-58	SOIL	Indeno(1,2,3-cd)pyrene		1,500.000		33.7	200	ug/Kg
Q2484-01	TP-58	SOIL	Dibenzo(a,h)anthracene		450.000		31.8	200	ug/Kg
Q2484-01	TP-58	SOIL	Benzo(g,h,i)perylene		1,700.000		29.8	200	ug/Kg
			Total Svoc :		**53,530.00**				
Q2484-01	TP-58	SOIL	1,1-Binaphthalene	*	590.000	J	0	0	ug/Kg
Q2484-01	TP-58	SOIL	11H-Benzo[a]fluoren-11-one	*	130.000	J	0	0	ug/Kg
Q2484-01	TP-58	SOIL	11H-Benzo[b]fluorene	*	150.000	J	0	0	ug/Kg
Q2484-01	TP-58	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	210.000	AB	0	0	ug/Kg
Q2484-01	TP-58	SOIL	4H-Cyclopenta[def]phenanthrene	*	160.000	J	0	0	ug/Kg
Q2484-01	TP-58	SOIL	7H-Benz[de]anthracen-7-one	*	130.000	J	0	0	ug/Kg
Q2484-01	TP-58	SOIL	Benzo[b]naphtho[2,1-d]thiophene	*	150.000	J	0	0	ug/Kg
Q2484-01	TP-58	SOIL	Benzo[e]pyrene	*	610.000	J	0	0	ug/Kg
Q2484-01	TP-58	SOIL	Benzophenone	*	610.000	J	0	0	ug/Kg
Q2484-01	TP-58	SOIL	Cyclopenta[cd]pyrene	*	130.000	J	0	0	ug/Kg
Q2484-01	TP-58	SOIL	Naphthalene, 1,4-dimethyl-	*	150.000	J	0	0	ug/Kg
Q2484-01	TP-58	SOIL	Naphthalene, 1,5-dimethyl-	*	230.000	J	0	0	ug/Kg
Q2484-01	TP-58	SOIL	Naphthalene, 1,6,7-trimethyl-	*	220.000	J	0	0	ug/Kg
Q2484-01	TP-58	SOIL	Naphthalene, 2,3,6-trimethyl-	*	120.000	J	0	0	ug/Kg
Q2484-01	TP-58	SOIL	Naphthalene, 2,3-dimethyl-	*	270.000	J	0	0	ug/Kg
Q2484-01	TP-58	SOIL	Naphthalene, 2,7-dimethyl-	*	110.000	J	0	0	ug/Kg

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Hit Summary Sheet
SW-846

SDG No.: Q2484

Client: CDM Smith

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Q2484-01	TP-58	SOIL	Phenanthrene, 2-methyl-	*	97.000	J	0	0	ug/Kg
Q2484-01	TP-58	SOIL	Pyrene, 1-methyl-	*	150.000	J	0	0	ug/Kg
Q2484-01	TP-58	SOIL	Pyrene, 4-methyl-	*	120.000	J	0	0	ug/Kg
Q2484-01	TP-58	SOIL	1-Methylnaphthalene	*	230.000	J	29.9	200	ug/Kg
			Total Tics :		**4,567.00**				
			Total Concentration:		**58,097.00**				
Client ID :	**TP-58DL**								
Q2484-01DL	TP-58DL	SOIL	Acenaphthene		540.000	JD	120	990	ug/Kg
Q2484-01DL	TP-58DL	SOIL	Dibenzofuran		1,200.000	D	130	990	ug/Kg
Q2484-01DL	TP-58DL	SOIL	Fluorene		1,500.000	D	150	990	ug/Kg
Q2484-01DL	TP-58DL	SOIL	Phenanthrene		9,700.000	D	120	990	ug/Kg
Q2484-01DL	TP-58DL	SOIL	Anthracene		1,500.000	D	190	990	ug/Kg
Q2484-01DL	TP-58DL	SOIL	Carbazole		780.000	JD	180	990	ug/Kg
Q2484-01DL	TP-58DL	SOIL	Fluoranthene		10,900.000	D	170	990	ug/Kg
Q2484-01DL	TP-58DL	SOIL	Pyrene		5,900.000	D	210	990	ug/Kg
Q2484-01DL	TP-58DL	SOIL	Benzo(a)anthracene		4,700.000	D	130	990	ug/Kg
Q2484-01DL	TP-58DL	SOIL	Chrysene		3,900.000	D	120	990	ug/Kg
Q2484-01DL	TP-58DL	SOIL	Benzo(b)fluoranthene		5,300.000	D	110	990	ug/Kg
Q2484-01DL	TP-58DL	SOIL	Benzo(k)fluoranthene		1,800.000	D	130	990	ug/Kg
Q2484-01DL	TP-58DL	SOIL	Benzo(a)pyrene		3,500.000	D	170	990	ug/Kg
Q2484-01DL	TP-58DL	SOIL	Indeno(1,2,3-cd)pyrene		1,500.000	D	170	990	ug/Kg
Q2484-01DL	TP-58DL	SOIL	Dibenzo(a,h)anthracene		450.000	JD	160	990	ug/Kg
Q2484-01DL	TP-58DL	SOIL	Benzo(g,h,i)perylene		1,600.000	D	150	990	ug/Kg
			Total Svoc :		**54,770.00**				
			Total Concentration:		**54,770.00**				
Client ID :	**TP-57**								
Q2484-02	TP-57	SOIL	Phenanthrene		170.000	J	24.3	200	ug/Kg
Q2484-02	TP-57	SOIL	Fluoranthene		280.000		34.8	200	ug/Kg
Q2484-02	TP-57	SOIL	Pyrene		240.000		41.8	200	ug/Kg
Q2484-02	TP-57	SOIL	Benzo(a)anthracene		130.000	J	26.7	200	ug/Kg
Q2484-02	TP-57	SOIL	Chrysene		120.000	J	23.1	200	ug/Kg
Q2484-02	TP-57	SOIL	Benzo(b)fluoranthene		140.000	J	22.1	200	ug/Kg
Q2484-02	TP-57	SOIL	Benzo(a)pyrene		130.000	J	34.3	200	ug/Kg
			Total Svoc :		**1,210.00**				
Q2484-02	TP-57	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	180.000	AB	0	0	ug/Kg
Q2484-02	TP-57	SOIL	Benzo[e]pyrene	*	86.300	J	0	0	ug/Kg
Q2484-02	TP-57	SOIL	Benzophenone	*	320.000	J	0	0	ug/Kg
Q2484-02	TP-57	SOIL	n-Hexadecanoic acid	*	80.900	J	0	0	ug/Kg
			Total Tics :		**667.20**				

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Hit Summary Sheet
SW-846

SDG No.: Q2484

Client: CDM Smith

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
			Total Concentration:		**1,877.20**				
Client ID :	**TP-64**								
Q2484-03	TP-64	SOIL	Fluoranthene		650.000	J	170	960	ug/Kg
Q2484-03	TP-64	SOIL	Pyrene		520.000	J	200	960	ug/Kg
Q2484-03	TP-64	SOIL	Benzo(b)fluoranthene		430.000	J	110	960	ug/Kg
			Total Svoc :		**1,600.00**				
			Total Concentration:		**1,600.00**				
Client ID :	**TP-107**								
Q2484-04	TP-107	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	230.000	AB	0	0	ug/Kg
Q2484-04	TP-107	SOIL	Benzophenone	*	360.000	J	0	0	ug/Kg
Q2484-04	TP-107	SOIL	Heptacosane	*	110.000	J	0	0	ug/Kg
Q2484-04	TP-107	SOIL	n-Hexadecanoic acid	*	110.000	J	0	0	ug/Kg
Q2484-04	TP-107	SOIL	Trifluoroacetoxy hexadecane	*	170.000	J	0	0	ug/Kg
			Total Tics :		**980.00**				
			Total Concentration:		**980.00**				
Client ID :	**TP-106**								
Q2484-05	TP-106	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	210.000	AB	0	0	ug/Kg
Q2484-05	TP-106	SOIL	Benzophenone	*	360.000	J	0	0	ug/Kg
Q2484-05	TP-106	SOIL	Heptafluorobutyric acid, pentadec	*	140.000	J	0	0	ug/Kg
			Total Tics :		**710.00**				
			Total Concentration:		**710.00**				
Client ID :	**TP-104**								
Q2484-06	TP-104	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	220.000	AB	0	0	ug/Kg
Q2484-06	TP-104	SOIL	Behenic alcohol	*	180.000	J	0	0	ug/Kg
Q2484-06	TP-104	SOIL	Benzophenone	*	370.000	J	0	0	ug/Kg
			Total Tics :		**770.00**				
			Total Concentration:		**770.00**				

SAMPLE DATA

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-58	SDG No.:	Q2484
Lab Sample ID:	Q2484-01	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	86.2
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF143018.D	1	07/02/25 08:55	07/07/25 19:51	PB168694

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	180	U	180	380	ug/Kg
108-95-2	Phenol	25.6	U	25.6	200	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	28.2	U	28.2	200	ug/Kg
95-57-8	2-Chlorophenol	28.3	U	28.3	200	ug/Kg
95-48-7	2-Methylphenol	34.7	U	34.7	200	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	43.5	U	43.5	200	ug/Kg
98-86-2	Acetophenone	34.2	U	34.2	200	ug/Kg
65794-96-9	3+4-Methylphenols	47.7	U	47.7	380	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	55.0	U	55.0	92.8	ug/Kg
67-72-1	Hexachloroethane	20.4	U	20.4	200	ug/Kg
98-95-3	Nitrobenzene	21.2	U	21.2	200	ug/Kg
78-59-1	Isophorone	38.0	U	38.0	200	ug/Kg
88-75-5	2-Nitrophenol	67.5	U	67.5	200	ug/Kg
105-67-9	2,4-Dimethylphenol	75.1	U	75.1	200	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	35.7	U	35.7	200	ug/Kg
120-83-2	2,4-Dichlorophenol	32.8	U	32.8	200	ug/Kg
91-20-3	Naphthalene	140	J	26.3	200	ug/Kg
106-47-8	4-Chloroaniline	41.1	U	41.1	200	ug/Kg
87-68-3	Hexachlorobutadiene	29.3	U	29.3	200	ug/Kg
105-60-2	Caprolactam	60.4	U	60.4	380	ug/Kg
59-50-7	4-Chloro-3-methylphenol	33.3	U	33.3	200	ug/Kg
91-57-6	2-Methylnaphthalene	170	J	29.7	200	ug/Kg
77-47-4	Hexachlorocyclopentadiene	130	U	130	380	ug/Kg
88-06-2	2,4,6-Trichlorophenol	23.0	U	23.0	200	ug/Kg
95-95-4	2,4,5-Trichlorophenol	33.7	U	33.7	200	ug/Kg
92-52-4	1,1-Biphenyl	130	J	25.3	200	ug/Kg
91-58-7	2-Chloronaphthalene	26.1	U	26.1	200	ug/Kg
88-74-4	2-Nitroaniline	55.8	U	55.8	200	ug/Kg
131-11-3	Dimethylphthalate	31.4	U	31.4	200	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-58	SDG No.:	Q2484
Lab Sample ID:	Q2484-01	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	86.2
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF143018.D	1	07/02/25 08:55	07/07/25 19:51	PB168694

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	230		33.5	200	ug/Kg
606-20-2	2,6-Dinitrotoluene	39.0	U	39.0	200	ug/Kg
99-09-2	3-Nitroaniline	53.3	U	53.3	200	ug/Kg
83-32-9	Acenaphthene	510		24.7	200	ug/Kg
51-28-5	2,4-Dinitrophenol	270	U	270	380	ug/Kg
100-02-7	4-Nitrophenol	120	U	120	380	ug/Kg
132-64-9	Dibenzofuran	1200		26.3	200	ug/Kg
121-14-2	2,4-Dinitrotoluene	58.1	U	58.1	200	ug/Kg
84-66-2	Diethylphthalate	32.8	U	32.8	200	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	31.0	U	31.0	200	ug/Kg
86-73-7	Fluorene	1500		29.3	200	ug/Kg
100-01-6	4-Nitroaniline	74.5	U	74.5	200	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	120	U	120	380	ug/Kg
86-30-6	n-Nitrosodiphenylamine	38.2	U	38.2	200	ug/Kg
101-55-3	4-Bromophenyl-phenylether	32.2	U	32.2	200	ug/Kg
118-74-1	Hexachlorobenzene	29.3	U	29.3	200	ug/Kg
1912-24-9	Atrazine	39.4	U	39.4	200	ug/Kg
87-86-5	Pentachlorophenol	59.5	U	59.5	380	ug/Kg
85-01-8	Phenanthrene	8100	E	24.2	200	ug/Kg
120-12-7	Anthracene	1600		38.6	200	ug/Kg
86-74-8	Carbazole	900		36.2	200	ug/Kg
84-74-2	Di-n-butylphthalate	55.5	U	55.5	200	ug/Kg
206-44-0	Fluoranthene	10800	E	34.8	200	ug/Kg
129-00-0	Pyrene	6200	E	41.7	200	ug/Kg
85-68-7	Butylbenzylphthalate	82.8	UQ	82.8	200	ug/Kg
91-94-1	3,3-Dichlorobenzidine	42.6	U	42.6	380	ug/Kg
56-55-3	Benzo(a)anthracene	4400	E	26.7	200	ug/Kg
218-01-9	Chrysene	3600	E	23.1	200	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	68.7	U	68.7	200	ug/Kg
117-84-0	Di-n-octyl phthalate	100	U	100	380	ug/Kg
205-99-2	Benzo(b)fluoranthene	5000	E	22.0	200	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-58	SDG No.:	Q2484
Lab Sample ID:	Q2484-01	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	86.2
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF143018.D	1	07/02/25 08:55	07/07/25 19:51	PB168694

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	2100		26.0	200	ug/Kg
50-32-8	Benzo(a)pyrene	3300	E	34.2	200	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1500		33.7	200	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	450		31.8	200	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1700		29.8	200	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	29.7	U	29.7	200	ug/Kg
123-91-1	1,4-Dioxane	52.4	U	52.4	200	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	31.8	U	31.8	200	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	73.9		18 - 112	49%	SPK: 150
13127-88-3	Phenol-d6	71.1		15 - 107	47%	SPK: 150
4165-60-0	Nitrobenzene-d5	45.7		18 - 107	46%	SPK: 100
321-60-8	2-Fluorobiphenyl	38.4		20 - 109	38%	SPK: 100
118-79-6	2,4,6-Tribromophenol	75.7		10 - 116	50%	SPK: 150
1718-51-0	Terphenyl-d14	33.8		10 - 105	34%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	47800	6.875			
1146-65-2	Naphthalene-d8	166000	8.157			
15067-26-2	Acenaphthene-d10	87500	9.916			
1517-22-2	Phenanthrene-d10	153000	11.41			
1719-03-5	Chrysene-d12	121000	14.068			
1520-96-3	Perylene-d12	91100	15.562			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	210	AB		5.09	ug/Kg
90-12-0	1-Methylnaphthalene	230	J		8.97	ug/Kg
000571-61-9	Naphthalene, 1,5-dimethyl-	230	J		9.50	ug/Kg
000581-40-8	Naphthalene, 2,3-dimethyl-	270	J		9.57	ug/Kg
000582-16-1	Naphthalene, 2,7-dimethyl-	110	J		9.60	ug/Kg
000571-58-4	Naphthalene, 1,4-dimethyl-	150	J		9.69	ug/Kg
000829-26-5	Naphthalene, 2,3,6-trimethyl-	120	J		10.2	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-58	SDG No.:	Q2484
Lab Sample ID:	Q2484-01	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	86.2
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF143018.D	1	07/02/25 08:55	07/07/25 19:51	PB168694

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
002245-38-7	Naphthalene, 1,6,7-trimethyl-	220	J		10.3	ug/Kg
000119-61-9	Benzophenone	610	J		10.6	ug/Kg
002531-84-2	Phenanthrene, 2-methyl-	97.0	J		11.9	ug/Kg
000203-64-5	4H-Cyclopenta[def]phenanthrene	160	J		12.0	ug/Kg
002381-21-7	Pyrene, 1-methyl-	150	J		13.1	ug/Kg
000243-17-4	11H-Benzo[b]fluorene	150	J		13.2	ug/Kg
003353-12-6	Pyrene, 4-methyl-	120	J		13.3	ug/Kg
000479-79-8	11H-Benzo[a]fluoren-11-one	130	J		13.7	ug/Kg
000239-35-0	Benzo[b]naphtho[2,1-d]thiophene	150	J		13.8	ug/Kg
027208-37-3	Cyclopenta[cd]pyrene	130	J		13.9	ug/Kg
000082-05-3	7H-Benz[de]anthracen-7-one	130	J		13.9	ug/Kg
000604-53-5	1,1-Binaphthalene	590	J		15.0	ug/Kg
000192-97-2	Benzo[e]pyrene	610	J		15.2	ug/Kg

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-58DL	SDG No.:	Q2484
Lab Sample ID:	Q2484-01DL	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	86.2
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF143042.D	5	07/02/25 08:55	07/08/25 19:41	PB168694

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	900	UD	900	1900	ug/Kg
108-95-2	Phenol	130	UD	130	990	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	140	UD	140	990	ug/Kg
95-57-8	2-Chlorophenol	140	UD	140	990	ug/Kg
95-48-7	2-Methylphenol	170	UD	170	990	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	220	UD	220	990	ug/Kg
98-86-2	Acetophenone	170	UD	170	990	ug/Kg
65794-96-9	3+4-Methylphenols	240	UD	240	1900	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	270	UD	270	460	ug/Kg
67-72-1	Hexachloroethane	100	UD	100	990	ug/Kg
98-95-3	Nitrobenzene	110	UD	110	990	ug/Kg
78-59-1	Isophorone	190	UD	190	990	ug/Kg
88-75-5	2-Nitrophenol	340	UD	340	990	ug/Kg
105-67-9	2,4-Dimethylphenol	380	UD	380	990	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	180	UD	180	990	ug/Kg
120-83-2	2,4-Dichlorophenol	160	UD	160	990	ug/Kg
91-20-3	Naphthalene	130	UD	130	990	ug/Kg
106-47-8	4-Chloroaniline	210	UD	210	990	ug/Kg
87-68-3	Hexachlorobutadiene	150	UD	150	990	ug/Kg
105-60-2	Caprolactam	300	UD	300	1900	ug/Kg
59-50-7	4-Chloro-3-methylphenol	170	UD	170	990	ug/Kg
91-57-6	2-Methylnaphthalene	150	UD	150	990	ug/Kg
77-47-4	Hexachlorocyclopentadiene	670	UD	670	1900	ug/Kg
88-06-2	2,4,6-Trichlorophenol	110	UD	110	990	ug/Kg
95-95-4	2,4,5-Trichlorophenol	170	UD	170	990	ug/Kg
92-52-4	1,1-Biphenyl	130	UD	130	990	ug/Kg
91-58-7	2-Chloronaphthalene	130	UD	130	990	ug/Kg
88-74-4	2-Nitroaniline	280	UD	280	990	ug/Kg
131-11-3	Dimethylphthalate	160	UD	160	990	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-58DL	SDG No.:	Q2484
Lab Sample ID:	Q2484-01DL	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	86.2
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF143042.D	5	07/02/25 08:55	07/08/25 19:41	PB168694

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	170	UD	170	990	ug/Kg
606-20-2	2,6-Dinitrotoluene	190	UD	190	990	ug/Kg
99-09-2	3-Nitroaniline	270	UD	270	990	ug/Kg
83-32-9	Acenaphthene	540	JD	120	990	ug/Kg
51-28-5	2,4-Dinitrophenol	1300	UD	1300	1900	ug/Kg
100-02-7	4-Nitrophenol	620	UD	620	1900	ug/Kg
132-64-9	Dibenzofuran	1200	D	130	990	ug/Kg
121-14-2	2,4-Dinitrotoluene	290	UD	290	990	ug/Kg
84-66-2	Diethylphthalate	160	UD	160	990	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	150	UD	150	990	ug/Kg
86-73-7	Fluorene	1500	D	150	990	ug/Kg
100-01-6	4-Nitroaniline	370	UD	370	990	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	600	UD	600	1900	ug/Kg
86-30-6	n-Nitrosodiphenylamine	190	UD	190	990	ug/Kg
101-55-3	4-Bromophenyl-phenylether	160	UD	160	990	ug/Kg
118-74-1	Hexachlorobenzene	150	UD	150	990	ug/Kg
1912-24-9	Atrazine	200	UD	200	990	ug/Kg
87-86-5	Pentachlorophenol	300	UD	300	1900	ug/Kg
85-01-8	Phenanthrene	9700	D	120	990	ug/Kg
120-12-7	Anthracene	1500	D	190	990	ug/Kg
86-74-8	Carbazole	780	JD	180	990	ug/Kg
84-74-2	Di-n-butylphthalate	280	UD	280	990	ug/Kg
206-44-0	Fluoranthene	10900	D	170	990	ug/Kg
129-00-0	Pyrene	5900	D	210	990	ug/Kg
85-68-7	Butylbenzylphthalate	410	UDQ	410	990	ug/Kg
91-94-1	3,3-Dichlorobenzidine	210	UD	210	1900	ug/Kg
56-55-3	Benzo(a)anthracene	4700	D	130	990	ug/Kg
218-01-9	Chrysene	3900	D	120	990	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	340	UD	340	990	ug/Kg
117-84-0	Di-n-octyl phthalate	500	UD	500	1900	ug/Kg
205-99-2	Benzo(b)fluoranthene	5300	D	110	990	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-58DL	SDG No.:	Q2484
Lab Sample ID:	Q2484-01DL	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	86.2
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF143042.D	5	07/02/25 08:55	07/08/25 19:41	PB168694

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1800	D	130	990	ug/Kg
50-32-8	Benzo(a)pyrene	3500	D	170	990	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1500	D	170	990	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	450	JD	160	990	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1600	D	150	990	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	150	UD	150	990	ug/Kg
123-91-1	1,4-Dioxane	260	UD	260	990	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	160	UD	160	990	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	70.3		18 - 112	47%	SPK: 150
13127-88-3	Phenol-d6	75.6		15 - 107	50%	SPK: 150
4165-60-0	Nitrobenzene-d5	46.2		18 - 107	46%	SPK: 100
321-60-8	2-Fluorobiphenyl	44.0		20 - 109	44%	SPK: 100
118-79-6	2,4,6-Tribromophenol	36.6		10 - 116	24%	SPK: 150
1718-51-0	Terphenyl-d14	27.2		10 - 105	27%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	55100	6.869			
1146-65-2	Naphthalene-d8	206000	8.157			
15067-26-2	Acenaphthene-d10	102000	9.916			
1517-22-2	Phenanthrene-d10	148000	11.404			
1719-03-5	Chrysene-d12	120000	14.051			
1520-96-3	Perylene-d12	142000	15.551			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-57	SDG No.:	Q2484
Lab Sample ID:	Q2484-02	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	86
Sample Wt/Vol:	30.04 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142995.D	1	07/02/25 08:55	07/03/25 14:25	PB168694

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	180	U	180	380	ug/Kg
108-95-2	Phenol	25.7	U	25.7	200	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	28.2	U	28.2	200	ug/Kg
95-57-8	2-Chlorophenol	28.3	U	28.3	200	ug/Kg
95-48-7	2-Methylphenol	34.7	U	34.7	200	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	43.5	U	43.5	200	ug/Kg
98-86-2	Acetophenone	34.3	U	34.3	200	ug/Kg
65794-96-9	3+4-Methylphenols	47.7	U	47.7	380	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	55.0	U	55.0	92.9	ug/Kg
67-72-1	Hexachloroethane	20.4	U	20.4	200	ug/Kg
98-95-3	Nitrobenzene	21.3	U	21.3	200	ug/Kg
78-59-1	Isophorone	38.1	U	38.1	200	ug/Kg
88-75-5	2-Nitrophenol	67.6	U	67.6	200	ug/Kg
105-67-9	2,4-Dimethylphenol	75.2	U	75.2	200	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	35.8	U	35.8	200	ug/Kg
120-83-2	2,4-Dichlorophenol	32.9	U	32.9	200	ug/Kg
91-20-3	Naphthalene	26.4	U	26.4	200	ug/Kg
106-47-8	4-Chloroaniline	41.1	U	41.1	200	ug/Kg
87-68-3	Hexachlorobutadiene	29.4	U	29.4	200	ug/Kg
105-60-2	Caprolactam	60.5	U	60.5	380	ug/Kg
59-50-7	4-Chloro-3-methylphenol	33.3	U	33.3	200	ug/Kg
91-57-6	2-Methylnaphthalene	29.7	U	29.7	200	ug/Kg
77-47-4	Hexachlorocyclopentadiene	130	U	130	380	ug/Kg
88-06-2	2,4,6-Trichlorophenol	23.0	U	23.0	200	ug/Kg
95-95-4	2,4,5-Trichlorophenol	33.8	U	33.8	200	ug/Kg
92-52-4	1,1-Biphenyl	25.3	U	25.3	200	ug/Kg
91-58-7	2-Chloronaphthalene	26.1	U	26.1	200	ug/Kg
88-74-4	2-Nitroaniline	55.9	U	55.9	200	ug/Kg
131-11-3	Dimethylphthalate	31.5	U	31.5	200	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-57	SDG No.:	Q2484
Lab Sample ID:	Q2484-02	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	86
Sample Wt/Vol:	30.04 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142995.D	1	07/02/25 08:55	07/03/25 14:25	PB168694

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	33.6	U	33.6	200	ug/Kg
606-20-2	2,6-Dinitrotoluene	39.0	U	39.0	200	ug/Kg
99-09-2	3-Nitroaniline	53.4	U	53.4	200	ug/Kg
83-32-9	Acenaphthene	24.7	U	24.7	200	ug/Kg
51-28-5	2,4-Dinitrophenol	270	U	270	380	ug/Kg
100-02-7	4-Nitrophenol	120	U	120	380	ug/Kg
132-64-9	Dibenzofuran	26.4	U	26.4	200	ug/Kg
121-14-2	2,4-Dinitrotoluene	58.2	U	58.2	200	ug/Kg
84-66-2	Diethylphthalate	32.9	U	32.9	200	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	31.0	U	31.0	200	ug/Kg
86-73-7	Fluorene	29.4	U	29.4	200	ug/Kg
100-01-6	4-Nitroaniline	74.6	U	74.6	200	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	120	U	120	380	ug/Kg
86-30-6	n-Nitrosodiphenylamine	38.2	U	38.2	200	ug/Kg
101-55-3	4-Bromophenyl-phenylether	32.3	U	32.3	200	ug/Kg
118-74-1	Hexachlorobenzene	29.4	U	29.4	200	ug/Kg
1912-24-9	Atrazine	39.5	U	39.5	200	ug/Kg
87-86-5	Pentachlorophenol	59.6	U	59.6	380	ug/Kg
85-01-8	Phenanthrene	170	J	24.3	200	ug/Kg
120-12-7	Anthracene	38.7	U	38.7	200	ug/Kg
86-74-8	Carbazole	36.2	U	36.2	200	ug/Kg
84-74-2	Di-n-butylphthalate	55.6	U	55.6	200	ug/Kg
206-44-0	Fluoranthene	280		34.8	200	ug/Kg
129-00-0	Pyrene	240		41.8	200	ug/Kg
85-68-7	Butylbenzylphthalate	82.9	UQ	82.9	200	ug/Kg
91-94-1	3,3-Dichlorobenzidine	42.6	U	42.6	380	ug/Kg
56-55-3	Benzo(a)anthracene	130	J	26.7	200	ug/Kg
218-01-9	Chrysene	120	J	23.1	200	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	68.7	U	68.7	200	ug/Kg
117-84-0	Di-n-octyl phthalate	100	U	100	380	ug/Kg
205-99-2	Benzo(b)fluoranthene	140	J	22.1	200	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-57	SDG No.:	Q2484
Lab Sample ID:	Q2484-02	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	86
Sample Wt/Vol:	30.04 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142995.D	1	07/02/25 08:55	07/03/25 14:25	PB168694

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	26.0	U	26.0	200	ug/Kg
50-32-8	Benzo(a)pyrene	130	J	34.3	200	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	33.8	U	33.8	200	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	31.8	U	31.8	200	ug/Kg
191-24-2	Benzo(g,h,i)perylene	29.8	U	29.8	200	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	29.7	U	29.7	200	ug/Kg
123-91-1	1,4-Dioxane	52.5	U	52.5	200	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	31.8	U	31.8	200	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	64.1		18 - 112	43%	SPK: 150
13127-88-3	Phenol-d6	64.3		15 - 107	43%	SPK: 150
4165-60-0	Nitrobenzene-d5	39.5		18 - 107	40%	SPK: 100
321-60-8	2-Fluorobiphenyl	36.5		20 - 109	37%	SPK: 100
118-79-6	2,4,6-Tribromophenol	63.6		10 - 116	42%	SPK: 150
1718-51-0	Terphenyl-d14	36.8		10 - 105	37%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	70800	6.875			
1146-65-2	Naphthalene-d8	272000	8.157			
15067-26-2	Acenaphthene-d10	145000	9.916			
1517-22-2	Phenanthrene-d10	247000	11.404			
1719-03-5	Chrysene-d12	137000	14.051			
1520-96-3	Perylene-d12	172000	15.545			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	180	AB		5.09	ug/Kg
000119-61-9	Benzophenone	320	J		10.6	ug/Kg
000057-10-3	n-Hexadecanoic acid	80.9	J		11.9	ug/Kg
000192-97-2	Benzo[e]pyrene	86.3	J		15.4	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-57	SDG No.:	Q2484
Lab Sample ID:	Q2484-02	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	86
Sample Wt/Vol:	30.04 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142995.D	1	07/02/25 08:55	07/03/25 14:25	PB168694

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-64	SDG No.:	Q2484
Lab Sample ID:	Q2484-03	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	88.4
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF143021.D	5	07/02/25 08:55	07/07/25 21:22	PB168694

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	880	U	880	1900	ug/Kg
108-95-2	Phenol	120	U	120	960	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	140	U	140	960	ug/Kg
95-57-8	2-Chlorophenol	140	U	140	960	ug/Kg
95-48-7	2-Methylphenol	170	U	170	960	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	210	U	210	960	ug/Kg
98-86-2	Acetophenone	170	U	170	960	ug/Kg
65794-96-9	3+4-Methylphenols	230	U	230	1900	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	270	U	270	450	ug/Kg
67-72-1	Hexachloroethane	99.3	U	99.3	960	ug/Kg
98-95-3	Nitrobenzene	100	U	100	960	ug/Kg
78-59-1	Isophorone	190	U	190	960	ug/Kg
88-75-5	2-Nitrophenol	330	U	330	960	ug/Kg
105-67-9	2,4-Dimethylphenol	370	U	370	960	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	170	U	170	960	ug/Kg
120-83-2	2,4-Dichlorophenol	160	U	160	960	ug/Kg
91-20-3	Naphthalene	130	U	130	960	ug/Kg
106-47-8	4-Chloroaniline	200	U	200	960	ug/Kg
87-68-3	Hexachlorobutadiene	140	U	140	960	ug/Kg
105-60-2	Caprolactam	290	U	290	1900	ug/Kg
59-50-7	4-Chloro-3-methylphenol	160	U	160	960	ug/Kg
91-57-6	2-Methylnaphthalene	140	U	140	960	ug/Kg
77-47-4	Hexachlorocyclopentadiene	650	U	650	1900	ug/Kg
88-06-2	2,4,6-Trichlorophenol	110	U	110	960	ug/Kg
95-95-4	2,4,5-Trichlorophenol	160	U	160	960	ug/Kg
92-52-4	1,1-Biphenyl	120	U	120	960	ug/Kg
91-58-7	2-Chloronaphthalene	130	U	130	960	ug/Kg
88-74-4	2-Nitroaniline	270	U	270	960	ug/Kg
131-11-3	Dimethylphthalate	150	U	150	960	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-64	SDG No.:	Q2484
Lab Sample ID:	Q2484-03	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	88.4
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF143021.D	5	07/02/25 08:55	07/07/25 21:22	PB168694

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	160	U	160	960	ug/Kg
606-20-2	2,6-Dinitrotoluene	190	U	190	960	ug/Kg
99-09-2	3-Nitroaniline	260	U	260	960	ug/Kg
83-32-9	Acenaphthene	120	U	120	960	ug/Kg
51-28-5	2,4-Dinitrophenol	1300	U	1300	1900	ug/Kg
100-02-7	4-Nitrophenol	600	U	600	1900	ug/Kg
132-64-9	Dibenzofuran	130	U	130	960	ug/Kg
121-14-2	2,4-Dinitrotoluene	280	U	280	960	ug/Kg
84-66-2	Diethylphthalate	160	U	160	960	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	150	U	150	960	ug/Kg
86-73-7	Fluorene	140	U	140	960	ug/Kg
100-01-6	4-Nitroaniline	360	U	360	960	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	580	U	580	1900	ug/Kg
86-30-6	n-Nitrosodiphenylamine	190	U	190	960	ug/Kg
101-55-3	4-Bromophenyl-phenylether	160	U	160	960	ug/Kg
118-74-1	Hexachlorobenzene	140	U	140	960	ug/Kg
1912-24-9	Atrazine	190	U	190	960	ug/Kg
87-86-5	Pentachlorophenol	290	U	290	1900	ug/Kg
85-01-8	Phenanthrene	120	U	120	960	ug/Kg
120-12-7	Anthracene	190	U	190	960	ug/Kg
86-74-8	Carbazole	180	U	180	960	ug/Kg
84-74-2	Di-n-butylphthalate	270	U	270	960	ug/Kg
206-44-0	Fluoranthene	650	J	170	960	ug/Kg
129-00-0	Pyrene	520	J	200	960	ug/Kg
85-68-7	Butylbenzylphthalate	400	UQ	400	960	ug/Kg
91-94-1	3,3-Dichlorobenzidine	210	U	210	1900	ug/Kg
56-55-3	Benzo(a)anthracene	130	U	130	960	ug/Kg
218-01-9	Chrysene	110	U	110	960	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	330	U	330	960	ug/Kg
117-84-0	Di-n-octyl phthalate	490	U	490	1900	ug/Kg
205-99-2	Benzo(b)fluoranthene	430	J	110	960	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-64	SDG No.:	Q2484
Lab Sample ID:	Q2484-03	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	88.4
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF143021.D	5	07/02/25 08:55	07/07/25 21:22	PB168694

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	130	U	130	960	ug/Kg
50-32-8	Benzo(a)pyrene	170	U	170	960	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	160	U	160	960	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	150	U	150	960	ug/Kg
191-24-2	Benzo(g,h,i)perylene	150	U	150	960	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	140	U	140	960	ug/Kg
123-91-1	1,4-Dioxane	260	U	260	960	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	150	U	150	960	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	65.4		18 - 112	44%	SPK: 150
13127-88-3	Phenol-d6	61.8		15 - 107	41%	SPK: 150
4165-60-0	Nitrobenzene-d5	39.4		18 - 107	39%	SPK: 100
321-60-8	2-Fluorobiphenyl	43.9		20 - 109	44%	SPK: 100
118-79-6	2,4,6-Tribromophenol	63.6		10 - 116	42%	SPK: 150
1718-51-0	Terphenyl-d14	39.8		10 - 105	40%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	45300	6.875			
1146-65-2	Naphthalene-d8	159000	8.157			
15067-26-2	Acenaphthene-d10	77600	9.916			
1517-22-2	Phenanthrene-d10	141000	11.404			
1719-03-5	Chrysene-d12	110000	14.057			
1520-96-3	Perylene-d12	80900	15.557			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-107	SDG No.:	Q2484
Lab Sample ID:	Q2484-04	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	83.8
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF143000.D	1	07/02/25 08:55	07/03/25 16:59	PB168694

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	190	U	190	390	ug/Kg
108-95-2	Phenol	26.3	U	26.3	200	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	29.0	U	29.0	200	ug/Kg
95-57-8	2-Chlorophenol	29.1	U	29.1	200	ug/Kg
95-48-7	2-Methylphenol	35.6	U	35.6	200	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	44.7	U	44.7	200	ug/Kg
98-86-2	Acetophenone	35.2	U	35.2	200	ug/Kg
65794-96-9	3+4-Methylphenols	49.0	U	49.0	390	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	56.5	U	56.5	95.4	ug/Kg
67-72-1	Hexachloroethane	21.0	U	21.0	200	ug/Kg
98-95-3	Nitrobenzene	21.8	U	21.8	200	ug/Kg
78-59-1	Isophorone	39.1	U	39.1	200	ug/Kg
88-75-5	2-Nitrophenol	69.4	U	69.4	200	ug/Kg
105-67-9	2,4-Dimethylphenol	77.2	U	77.2	200	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	36.7	U	36.7	200	ug/Kg
120-83-2	2,4-Dichlorophenol	33.7	U	33.7	200	ug/Kg
91-20-3	Naphthalene	27.1	U	27.1	200	ug/Kg
106-47-8	4-Chloroaniline	42.2	U	42.2	200	ug/Kg
87-68-3	Hexachlorobutadiene	30.2	U	30.2	200	ug/Kg
105-60-2	Caprolactam	62.1	U	62.1	390	ug/Kg
59-50-7	4-Chloro-3-methylphenol	34.2	U	34.2	200	ug/Kg
91-57-6	2-Methylnaphthalene	30.5	U	30.5	200	ug/Kg
77-47-4	Hexachlorocyclopentadiene	140	U	140	390	ug/Kg
88-06-2	2,4,6-Trichlorophenol	23.6	U	23.6	200	ug/Kg
95-95-4	2,4,5-Trichlorophenol	34.7	U	34.7	200	ug/Kg
92-52-4	1,1-Biphenyl	26.0	U	26.0	200	ug/Kg
91-58-7	2-Chloronaphthalene	26.8	U	26.8	200	ug/Kg
88-74-4	2-Nitroaniline	57.3	U	57.3	200	ug/Kg
131-11-3	Dimethylphthalate	32.3	U	32.3	200	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-107	SDG No.:	Q2484
Lab Sample ID:	Q2484-04	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	83.8
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF143000.D	1	07/02/25 08:55	07/03/25 16:59	PB168694

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	34.5	U	34.5	200	ug/Kg
606-20-2	2,6-Dinitrotoluene	40.1	U	40.1	200	ug/Kg
99-09-2	3-Nitroaniline	54.8	U	54.8	200	ug/Kg
83-32-9	Acenaphthene	25.4	U	25.4	200	ug/Kg
51-28-5	2,4-Dinitrophenol	270	U	270	390	ug/Kg
100-02-7	4-Nitrophenol	130	U	130	390	ug/Kg
132-64-9	Dibenzofuran	27.1	U	27.1	200	ug/Kg
121-14-2	2,4-Dinitrotoluene	59.7	U	59.7	200	ug/Kg
84-66-2	Diethylphthalate	33.7	U	33.7	200	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	31.8	U	31.8	200	ug/Kg
86-73-7	Fluorene	30.2	U	30.2	200	ug/Kg
100-01-6	4-Nitroaniline	76.5	U	76.5	200	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	120	U	120	390	ug/Kg
86-30-6	n-Nitrosodiphenylamine	39.2	U	39.2	200	ug/Kg
101-55-3	4-Bromophenyl-phenylether	33.1	U	33.1	200	ug/Kg
118-74-1	Hexachlorobenzene	30.2	U	30.2	200	ug/Kg
1912-24-9	Atrazine	40.5	U	40.5	200	ug/Kg
87-86-5	Pentachlorophenol	61.2	U	61.2	390	ug/Kg
85-01-8	Phenanthrene	24.9	U	24.9	200	ug/Kg
120-12-7	Anthracene	39.7	U	39.7	200	ug/Kg
86-74-8	Carbazole	37.2	U	37.2	200	ug/Kg
84-74-2	Di-n-butylphthalate	57.1	U	57.1	200	ug/Kg
206-44-0	Fluoranthene	35.8	U	35.8	200	ug/Kg
129-00-0	Pyrene	42.9	U	42.9	200	ug/Kg
85-68-7	Butylbenzylphthalate	85.1	UQ	85.1	200	ug/Kg
91-94-1	3,3-Dichlorobenzidine	43.8	U	43.8	390	ug/Kg
56-55-3	Benzo(a)anthracene	27.4	U	27.4	200	ug/Kg
218-01-9	Chrysene	23.7	U	23.7	200	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	70.6	U	70.6	200	ug/Kg
117-84-0	Di-n-octyl phthalate	100	U	100	390	ug/Kg
205-99-2	Benzo(b)fluoranthene	22.7	U	22.7	200	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-107	SDG No.:	Q2484
Lab Sample ID:	Q2484-04	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	83.8
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF143000.D	1	07/02/25 08:55	07/03/25 16:59	PB168694

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	26.7	U	26.7	200	ug/Kg
50-32-8	Benzo(a)pyrene	35.2	U	35.2	200	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	34.7	U	34.7	200	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	32.7	U	32.7	200	ug/Kg
191-24-2	Benzo(g,h,i)perylene	30.6	U	30.6	200	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	30.5	U	30.5	200	ug/Kg
123-91-1	1,4-Dioxane	53.9	U	53.9	200	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	32.7	U	32.7	200	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	79.2		18 - 112	53%	SPK: 150
13127-88-3	Phenol-d6	81.0		15 - 107	54%	SPK: 150
4165-60-0	Nitrobenzene-d5	50.0		18 - 107	50%	SPK: 100
321-60-8	2-Fluorobiphenyl	47.6		20 - 109	48%	SPK: 100
118-79-6	2,4,6-Tribromophenol	74.5		10 - 116	50%	SPK: 150
1718-51-0	Terphenyl-d14	37.2		10 - 105	37%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	72100	6.875			
1146-65-2	Naphthalene-d8	273000	8.157			
15067-26-2	Acenaphthene-d10	143000	9.91			
1517-22-2	Phenanthrene-d10	221000	11.404			
1719-03-5	Chrysene-d12	143000	14.051			
1520-96-3	Perylene-d12	173000	15.539			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	230	AB		5.09	ug/Kg
000119-61-9	Benzophenone	360	J		10.6	ug/Kg
000593-49-7	Heptacosane	110	J		10.8	ug/Kg
000057-10-3	n-Hexadecanoic acid	110	J		11.9	ug/Kg
006222-03-3	Trifluoroacetoxy hexadecane	170	J		13.9	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-107	SDG No.:	Q2484
Lab Sample ID:	Q2484-04	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	83.8
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF143000.D	1	07/02/25 08:55	07/03/25 16:59	PB168694

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-106	SDG No.:	Q2484
Lab Sample ID:	Q2484-05	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	87.9
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142997.D	1	07/02/25 08:55	07/03/25 15:27	PB168694

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	180	U	180	370	ug/Kg
108-95-2	Phenol	25.1	U	25.1	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	27.6	U	27.6	190	ug/Kg
95-57-8	2-Chlorophenol	27.7	U	27.7	190	ug/Kg
95-48-7	2-Methylphenol	33.9	U	33.9	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	42.6	U	42.6	190	ug/Kg
98-86-2	Acetophenone	33.5	U	33.5	190	ug/Kg
65794-96-9	3+4-Methylphenols	46.7	U	46.7	370	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	53.8	U	53.8	90.8	ug/Kg
67-72-1	Hexachloroethane	20.0	U	20.0	190	ug/Kg
98-95-3	Nitrobenzene	20.8	U	20.8	190	ug/Kg
78-59-1	Isophorone	37.2	U	37.2	190	ug/Kg
88-75-5	2-Nitrophenol	66.1	U	66.1	190	ug/Kg
105-67-9	2,4-Dimethylphenol	73.6	U	73.6	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	35.0	U	35.0	190	ug/Kg
120-83-2	2,4-Dichlorophenol	32.1	U	32.1	190	ug/Kg
91-20-3	Naphthalene	25.8	U	25.8	190	ug/Kg
106-47-8	4-Chloroaniline	40.2	U	40.2	190	ug/Kg
87-68-3	Hexachlorobutadiene	28.7	U	28.7	190	ug/Kg
105-60-2	Caprolactam	59.2	U	59.2	370	ug/Kg
59-50-7	4-Chloro-3-methylphenol	32.6	U	32.6	190	ug/Kg
91-57-6	2-Methylnaphthalene	29.1	U	29.1	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	130	U	130	370	ug/Kg
88-06-2	2,4,6-Trichlorophenol	22.5	U	22.5	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	33.0	U	33.0	190	ug/Kg
92-52-4	1,1-Biphenyl	24.8	U	24.8	190	ug/Kg
91-58-7	2-Chloronaphthalene	25.5	U	25.5	190	ug/Kg
88-74-4	2-Nitroaniline	54.6	U	54.6	190	ug/Kg
131-11-3	Dimethylphthalate	30.8	U	30.8	190	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-106	SDG No.:	Q2484
Lab Sample ID:	Q2484-05	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	87.9
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142997.D	1	07/02/25 08:55	07/03/25 15:27	PB168694

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	32.8	U	32.8	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	38.1	U	38.1	190	ug/Kg
99-09-2	3-Nitroaniline	52.2	U	52.2	190	ug/Kg
83-32-9	Acenaphthene	24.2	U	24.2	190	ug/Kg
51-28-5	2,4-Dinitrophenol	260	U	260	370	ug/Kg
100-02-7	4-Nitrophenol	120	U	120	370	ug/Kg
132-64-9	Dibenzofuran	25.8	U	25.8	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	56.9	U	56.9	190	ug/Kg
84-66-2	Diethylphthalate	32.1	U	32.1	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	30.3	U	30.3	190	ug/Kg
86-73-7	Fluorene	28.7	U	28.7	190	ug/Kg
100-01-6	4-Nitroaniline	72.9	U	72.9	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	120	U	120	370	ug/Kg
86-30-6	n-Nitrosodiphenylamine	37.4	U	37.4	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	31.6	U	31.6	190	ug/Kg
118-74-1	Hexachlorobenzene	28.7	U	28.7	190	ug/Kg
1912-24-9	Atrazine	38.6	U	38.6	190	ug/Kg
87-86-5	Pentachlorophenol	58.2	U	58.2	370	ug/Kg
85-01-8	Phenanthrene	23.7	U	23.7	190	ug/Kg
120-12-7	Anthracene	37.8	U	37.8	190	ug/Kg
86-74-8	Carbazole	35.4	U	35.4	190	ug/Kg
84-74-2	Di-n-butylphthalate	54.4	U	54.4	190	ug/Kg
206-44-0	Fluoranthene	34.1	U	34.1	190	ug/Kg
129-00-0	Pyrene	40.9	U	40.9	190	ug/Kg
85-68-7	Butylbenzylphthalate	81.1	UQ	81.1	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	41.7	U	41.7	370	ug/Kg
56-55-3	Benzo(a)anthracene	26.1	U	26.1	190	ug/Kg
218-01-9	Chrysene	22.6	U	22.6	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	67.2	U	67.2	190	ug/Kg
117-84-0	Di-n-octyl phthalate	98.6	U	98.6	370	ug/Kg
205-99-2	Benzo(b)fluoranthene	21.6	U	21.6	190	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-106	SDG No.:	Q2484
Lab Sample ID:	Q2484-05	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	87.9
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142997.D	1	07/02/25 08:55	07/03/25 15:27	PB168694

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	25.4	U	25.4	190	ug/Kg
50-32-8	Benzo(a)pyrene	33.5	U	33.5	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	33.0	U	33.0	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	31.1	U	31.1	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	29.2	U	29.2	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	29.1	U	29.1	190	ug/Kg
123-91-1	1,4-Dioxane	51.3	U	51.3	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	31.1	U	31.1	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	72.7		18 - 112	48%	SPK: 150
13127-88-3	Phenol-d6	74.9		15 - 107	50%	SPK: 150
4165-60-0	Nitrobenzene-d5	44.9		18 - 107	45%	SPK: 100
321-60-8	2-Fluorobiphenyl	44.3		20 - 109	44%	SPK: 100
118-79-6	2,4,6-Tribromophenol	70.5		10 - 116	47%	SPK: 150
1718-51-0	Terphenyl-d14	40.8		10 - 105	41%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	73300	6.875			
1146-65-2	Naphthalene-d8	283000	8.157			
15067-26-2	Acenaphthene-d10	150000	9.91			
1517-22-2	Phenanthrene-d10	249000	11.404			
1719-03-5	Chrysene-d12	144000	14.045			
1520-96-3	Perylene-d12	180000	15.539			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	210	AB		5.09	ug/Kg
000119-61-9	Benzophenone	360	J		10.6	ug/Kg
959261-23-5	Heptafluorobutyric acid, pentadecy	140	J		13.9	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-106	SDG No.:	Q2484
Lab Sample ID:	Q2484-05	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	87.9
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142997.D	1	07/02/25 08:55	07/03/25 15:27	PB168694

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-104	SDG No.:	Q2484
Lab Sample ID:	Q2484-06	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	87.3
Sample Wt/Vol:	30.09 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142996.D	1	07/02/25 08:55	07/03/25 14:56	PB168694

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	180	U	180	380	ug/Kg
108-95-2	Phenol	25.2	U	25.2	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	27.8	U	27.8	190	ug/Kg
95-57-8	2-Chlorophenol	27.9	U	27.9	190	ug/Kg
95-48-7	2-Methylphenol	34.1	U	34.1	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	42.8	U	42.8	190	ug/Kg
98-86-2	Acetophenone	33.7	U	33.7	190	ug/Kg
65794-96-9	3+4-Methylphenols	46.9	U	46.9	380	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	54.1	U	54.1	91.4	ug/Kg
67-72-1	Hexachloroethane	20.1	U	20.1	190	ug/Kg
98-95-3	Nitrobenzene	20.9	U	20.9	190	ug/Kg
78-59-1	Isophorone	37.5	U	37.5	190	ug/Kg
88-75-5	2-Nitrophenol	66.5	U	66.5	190	ug/Kg
105-67-9	2,4-Dimethylphenol	74.0	U	74.0	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	35.2	U	35.2	190	ug/Kg
120-83-2	2,4-Dichlorophenol	32.3	U	32.3	190	ug/Kg
91-20-3	Naphthalene	25.9	U	25.9	190	ug/Kg
106-47-8	4-Chloroaniline	40.4	U	40.4	190	ug/Kg
87-68-3	Hexachlorobutadiene	28.9	U	28.9	190	ug/Kg
105-60-2	Caprolactam	59.5	U	59.5	380	ug/Kg
59-50-7	4-Chloro-3-methylphenol	32.8	U	32.8	190	ug/Kg
91-57-6	2-Methylnaphthalene	29.2	U	29.2	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	130	U	130	380	ug/Kg
88-06-2	2,4,6-Trichlorophenol	22.6	U	22.6	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	33.2	U	33.2	190	ug/Kg
92-52-4	1,1-Biphenyl	24.9	U	24.9	190	ug/Kg
91-58-7	2-Chloronaphthalene	25.7	U	25.7	190	ug/Kg
88-74-4	2-Nitroaniline	54.9	U	54.9	190	ug/Kg
131-11-3	Dimethylphthalate	30.9	U	30.9	190	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-104	SDG No.:	Q2484
Lab Sample ID:	Q2484-06	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	87.3
Sample Wt/Vol:	30.09 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142996.D	1	07/02/25 08:55	07/03/25 14:56	PB168694

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	33.0	U	33.0	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	38.4	U	38.4	190	ug/Kg
99-09-2	3-Nitroaniline	52.5	U	52.5	190	ug/Kg
83-32-9	Acenaphthene	24.3	U	24.3	190	ug/Kg
51-28-5	2,4-Dinitrophenol	260	U	260	380	ug/Kg
100-02-7	4-Nitrophenol	120	U	120	380	ug/Kg
132-64-9	Dibenzofuran	25.9	U	25.9	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	57.2	U	57.2	190	ug/Kg
84-66-2	Diethylphthalate	32.3	U	32.3	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	30.5	U	30.5	190	ug/Kg
86-73-7	Fluorene	28.9	U	28.9	190	ug/Kg
100-01-6	4-Nitroaniline	73.3	U	73.3	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	120	U	120	380	ug/Kg
86-30-6	n-Nitrosodiphenylamine	37.6	U	37.6	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	31.7	U	31.7	190	ug/Kg
118-74-1	Hexachlorobenzene	28.9	U	28.9	190	ug/Kg
1912-24-9	Atrazine	38.8	U	38.8	190	ug/Kg
87-86-5	Pentachlorophenol	58.6	U	58.6	380	ug/Kg
85-01-8	Phenanthrene	23.9	U	23.9	190	ug/Kg
120-12-7	Anthracene	38.0	U	38.0	190	ug/Kg
86-74-8	Carbazole	35.6	U	35.6	190	ug/Kg
84-74-2	Di-n-butylphthalate	54.7	U	54.7	190	ug/Kg
206-44-0	Fluoranthene	34.3	U	34.3	190	ug/Kg
129-00-0	Pyrene	41.1	U	41.1	190	ug/Kg
85-68-7	Butylbenzylphthalate	81.5	UQ	81.5	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	41.9	U	41.9	380	ug/Kg
56-55-3	Benzo(a)anthracene	26.3	U	26.3	190	ug/Kg
218-01-9	Chrysene	22.7	U	22.7	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	67.6	U	67.6	190	ug/Kg
117-84-0	Di-n-octyl phthalate	99.1	U	99.1	380	ug/Kg
205-99-2	Benzo(b)fluoranthene	21.7	U	21.7	190	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-104	SDG No.:	Q2484
Lab Sample ID:	Q2484-06	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	87.3
Sample Wt/Vol:	30.09 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142996.D	1	07/02/25 08:55	07/03/25 14:56	PB168694

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	25.6	U	25.6	190	ug/Kg
50-32-8	Benzo(a)pyrene	33.7	U	33.7	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	33.2	U	33.2	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	31.3	U	31.3	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	29.4	U	29.4	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	29.2	U	29.2	190	ug/Kg
123-91-1	1,4-Dioxane	51.6	U	51.6	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	31.3	U	31.3	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	76.8		18 - 112	51%	SPK: 150
13127-88-3	Phenol-d6	77.6		15 - 107	52%	SPK: 150
4165-60-0	Nitrobenzene-d5	47.6		18 - 107	48%	SPK: 100
321-60-8	2-Fluorobiphenyl	46.0		20 - 109	46%	SPK: 100
118-79-6	2,4,6-Tribromophenol	76.4		10 - 116	51%	SPK: 150
1718-51-0	Terphenyl-d14	46.6		10 - 105	47%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	71600	6.875			
1146-65-2	Naphthalene-d8	275000	8.157			
15067-26-2	Acenaphthene-d10	149000	9.91			
1517-22-2	Phenanthrene-d10	257000	11.404			
1719-03-5	Chrysene-d12	144000	14.051			
1520-96-3	Perylene-d12	171000	15.539			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	220	AB		5.09	ug/Kg
000119-61-9	Benzophenone	370	J		10.6	ug/Kg
000661-19-8	Behenic alcohol	180	J		13.9	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-104	SDG No.:	Q2484
Lab Sample ID:	Q2484-06	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	87.3
Sample Wt/Vol:	30.09 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142996.D	1	07/02/25 08:55	07/03/25 14:56	PB168694

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

QC SUMMARY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Surrogate Summary

SW-846

SDG No.: Q2484

Client: CDM Smith

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
PB168694BL	PB168694BL	2-Fluorophenol	150	121	81		18	112
		Phenol-d6	150	119	80		15	107
		Nitrobenzene-d5	100	76.7	77		18	107
		2-Fluorobiphenyl	100	75.5	76		20	109
		2,4,6-Tribromophenol	150	124	82		10	116
		Terphenyl-d14	100	76.8	77		10	105
PB168694BS	PB168694BS	2-Fluorophenol	150	119	80		18	112
		Phenol-d6	150	117	78		15	107
		Nitrobenzene-d5	100	76.6	77		18	107
		2-Fluorobiphenyl	100	79.8	80		20	109
		2,4,6-Tribromophenol	150	122	81		10	116
		Terphenyl-d14	100	67.7	68		10	105
Q2475-01MS	SOIL-PILEMS	2-Fluorophenol	150	70.7	47		18	112
		Phenol-d6	150	74.0	49		15	107
		Nitrobenzene-d5	100	46.8	47		18	107
		2-Fluorobiphenyl	100	43.0	43		20	109
		2,4,6-Tribromophenol	150	67.8	45		10	116
		Terphenyl-d14	100	33.5	33		10	105
Q2475-01MSD	SOIL-PILEMSD	2-Fluorophenol	150	70.0	47		18	112
		Phenol-d6	150	73.3	49		15	107
		Nitrobenzene-d5	100	44.8	45		18	107
		2-Fluorobiphenyl	100	42.0	42		20	109
		2,4,6-Tribromophenol	150	61.7	41		10	116
		Terphenyl-d14	100	31.4	31		10	105
Q2484-01	TP-58	2-Fluorophenol	150	73.9	49		18	112
		Phenol-d6	150	71.1	47		15	107
		Nitrobenzene-d5	100	45.7	46		18	107
		2-Fluorobiphenyl	100	38.4	38		20	109
		2,4,6-Tribromophenol	150	75.7	50		10	116
		Terphenyl-d14	100	33.8	34		10	105
Q2484-01DL	TP-58DL	2-Fluorophenol	150	70.3	47		18	112
		Phenol-d6	150	75.6	50		15	107
		Nitrobenzene-d5	100	46.2	46		18	107
		2-Fluorobiphenyl	100	44.0	44		20	109
		2,4,6-Tribromophenol	150	36.6	24		10	116
		Terphenyl-d14	100	27.2	27		10	105
Q2484-02	TP-57	2-Fluorophenol	150	64.1	43		18	112
		Phenol-d6	150	64.3	43		15	107
		Nitrobenzene-d5	100	39.5	40		18	107
		2-Fluorobiphenyl	100	36.5	37		20	109
		2,4,6-Tribromophenol	150	63.6	42		10	116
		Terphenyl-d14	100	36.8	37		10	105
Q2484-03	TP-64	2-Fluorophenol	150	65.4	44		18	112
		Phenol-d6	150	61.8	41		15	107
		Nitrobenzene-d5	100	39.4	39		18	107
		2-Fluorobiphenyl	100	43.9	44		20	109
		2,4,6-Tribromophenol	150	63.6	42		10	116
		Terphenyl-d14	100	39.8	40		10	105
Q2484-04	TP-107	2-Fluorophenol	150	79.2	53		18	112
		Phenol-d6	150	81.0	54		15	107
		Nitrobenzene-d5	100	50.0	50		18	107

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Surrogate Summary

SW-846

SDG No.: Q2484

Client: CDM Smith

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
Q2484-04	TP-107	2-Fluorobiphenyl	100	47.6	48		20	109
		2,4,6-Tribromophenol	150	74.5	50		10	116
		Terphenyl-d14	100	37.2	37		10	105
Q2484-05	TP-106	2-Fluorophenol	150	72.7	48		18	112
		Phenol-d6	150	74.9	50		15	107
		Nitrobenzene-d5	100	44.9	45		18	107
		2-Fluorobiphenyl	100	44.3	44		20	109
		2,4,6-Tribromophenol	150	70.5	47		10	116
		Terphenyl-d14	100	40.8	41		10	105
Q2484-06	TP-104	2-Fluorophenol	150	76.8	51		18	112
		Phenol-d6	150	77.6	52		15	107
		Nitrobenzene-d5	100	47.6	48		18	107
		2-Fluorobiphenyl	100	46.0	46		20	109
		2,4,6-Tribromophenol	150	76.4	51		10	116
		Terphenyl-d14	100	46.6	47		10	105

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2484 **Analytical Method:** SW8270E

Client: CDM Smith **DataFile:** BF142982.D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: Q2475-01MS		**Client Sample ID: SOIL-PILEMS**									
Benzaldehyde	1300	0	1300	ug/Kg	100				10	171	
Phenol	1300	0	1100	ug/Kg	85				51	122	
bis(2-Chloroethyl)ether	1300	0	1100	ug/Kg	85				54	125	
2-Chlorophenol	1300	0	1100	ug/Kg	85				51	121	
2-Methylphenol	1300	0	1200	ug/Kg	92				47	125	
2,2-oxybis(1-Chloropropane)	1300	0	1100	ug/Kg	85				46	119	
Acetophenone	1300	0	1200	ug/Kg	92				55	128	
3+4-Methylphenols	1300	0	1200	ug/Kg	92				49	125	
N-Nitroso-di-n-propylamine	1300	0	1100	ug/Kg	85				59	119	
Hexachloroethane	1300	0	1100	ug/Kg	85				51	116	
Nitrobenzene	1300	0	1100	ug/Kg	85				47	124	
Isophorone	1300	0	1200	ug/Kg	92				49	127	
2-Nitrophenol	1300	0	1200	ug/Kg	92				43	131	
2,4-Dimethylphenol	1300	0	1100	ug/Kg	85				63	151	
bis(2-Chloroethoxy)methane	1300	0	1200	ug/Kg	92				51	119	
2,4-Dichlorophenol	1300	0	1200	ug/Kg	92				50	122	
Naphthalene	1300	0	1200	ug/Kg	92				51	121	
4-Chloroaniline	1300	0	590	ug/Kg	45				10	100	
Hexachlorobutadiene	1300	0	1200	ug/Kg	92				44	126	
Caprolactam	1300	0	1400	ug/Kg	108				51	134	
4-Chloro-3-methylphenol	1300	0	1200	ug/Kg	92				57	132	
2-Methylnaphthalene	1300	0	1200	ug/Kg	92				59	123	
Hexachlorocyclopentadiene	2500	0	1600	ug/Kg	64				10	175	
2,4,6-Trichlorophenol	1300	0	1200	ug/Kg	92				33	141	
2,4,5-Trichlorophenol	1300	0	1200	ug/Kg	92				38	135	
1,1-Biphenyl	1300	0	1200	ug/Kg	92				55	131	
2-Chloronaphthalene	1300	0	1200	ug/Kg	92				48	124	
2-Nitroaniline	1300	0	1200	ug/Kg	92				47	134	
Dimethylphthalate	1300	0	1300	ug/Kg	100				54	120	
Acenaphthylene	1300	0	1200	ug/Kg	92				57	125	
2,6-Dinitrotoluene	1300	0	1200	ug/Kg	92				48	127	
3-Nitroaniline	1300	0	780	ug/Kg	60				10	112	
Acenaphthene	1300	0	1300	ug/Kg	100				70	121	
2,4-Dinitrophenol	2500	0	2200	ug/Kg	88				10	155	
4-Nitrophenol	2500	0	2100	ug/Kg	84				10	175	
Dibenzofuran	1300	0	1200	ug/Kg	92				52	114	
2,4-Dinitrotoluene	1300	0	1200	ug/Kg	92				41	140	
Diethylphthalate	1300	0	1300	ug/Kg	100				51	119	
4-Chlorophenyl-phenylether	1300	0	1200	ug/Kg	92				48	122	
Fluorene	1300	70.1	1200	ug/Kg	87				53	118	
4-Nitroaniline	1300	0	1200	ug/Kg	92				29	140	
4,6-Dinitro-2-methylphenol	1300	0	1200	ug/Kg	92				10	160	
N-Nitrosodiphenylamine	1300	0	1300	ug/Kg	100				73	118	
4-Bromophenyl-phenylether	1300	0	1300	ug/Kg	100				65	121	
Hexachlorobenzene	1300	0	1200	ug/Kg	92				67	118	
Atrazine	1300	0	1500	ug/Kg	115				45	175	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2484 **Analytical Method:** SW8270E

Client: CDM Smith **DataFile:** BF142982.D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Pentachlorophenol	2500	0	2300	ug/Kg	92				13	153	
Phenanthrene	1300	420	1500	ug/Kg	83				52	128	
Anthracene	1300	64.9	1200	ug/Kg	87				62	124	
Carbazole	1300	56.1	1200	ug/Kg	88				59	119	
Di-n-butylphthalate	1300	0	1500	ug/Kg	115				55	125	
Fluoranthene	1300	1200	2100	ug/Kg	69				44	125	
Pyrene	1300	680	1400	ug/Kg	55				37	122	
Butylbenzylphthalate	1300	0	1300	ug/Kg	100				44	135	
3,3-Dichlorobenzidine	1300	0	740	ug/Kg	57				15	112	
Benzo(a)anthracene	1300	390	1500	ug/Kg	85				53	119	
Chrysene	1300	500	1600	ug/Kg	85				57	121	
bis(2-Ethylhexyl)phthalate	1300	0	1300	ug/Kg	100				42	169	
Di-n-octyl phthalate	1300	0	1100	ug/Kg	85				51	156	
Benzo(b)fluoranthene	1300	660	1800	ug/Kg	88				52	117	
Benzo(k)fluoranthene	1300	210	1600	ug/Kg	107				57	134	
Benzo(a)pyrene	1300	310	1500	ug/Kg	92				70	142	
Indeno(1,2,3-cd)pyrene	1300	100	890	ug/Kg	61				40	129	
Dibenz(a,h)anthracene	1300	0	840	ug/Kg	65				43	123	
Benzo(g,h,i)perylene	1300	120	850	ug/Kg	56				24	125	
1,2,4,5-Tetrachlorobenzene	1300	0	1200	ug/Kg	92				52	134	
1,4-Dioxane	1300	0	890	ug/Kg	68				46	112	
2,3,4,6-Tetrachlorophenol	1300	0	1100	ug/Kg	85				24	146	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2484 **Analytical Method:** SW8270E

Client: CDM Smith **DataFile:** BF142983.D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Lab Sample ID: Q2475-01MSD		**Client Sample ID: SOIL-PILEMSD**									
Benzaldehyde	1300	0	1200	ug/Kg	92	8			10	171	20
Phenol	1300	0	1100	ug/Kg	85	0			51	122	20
bis(2-Chloroethyl)ether	1300	0	1100	ug/Kg	85	0			54	125	20
2-Chlorophenol	1300	0	1100	ug/Kg	85	0			51	121	20
2-Methylphenol	1300	0	1100	ug/Kg	85	8			47	125	20
2,2-oxybis(1-Chloropropane)	1300	0	1000	ug/Kg	77	10			46	119	20
Acetophenone	1300	0	1100	ug/Kg	85	8			55	128	20
3+4-Methylphenols	1300	0	1200	ug/Kg	92	0			49	125	20
N-Nitroso-di-n-propylamine	1300	0	1100	ug/Kg	85	0			59	119	20
Hexachloroethane	1300	0	1100	ug/Kg	85	0			51	116	20
Nitrobenzene	1300	0	1100	ug/Kg	85	0			47	124	20
Isophorone	1300	0	1100	ug/Kg	85	8			49	127	20
2-Nitrophenol	1300	0	1200	ug/Kg	92	0			43	131	20
2,4-Dimethylphenol	1300	0	1100	ug/Kg	85	0			63	151	20
bis(2-Chloroethoxy)methane	1300	0	1100	ug/Kg	85	8			51	119	20
2,4-Dichlorophenol	1300	0	1100	ug/Kg	85	8			50	122	20
Naphthalene	1300	0	1100	ug/Kg	85	8			51	121	20
4-Chloroaniline	1300	0	550	ug/Kg	42	7			10	100	20
Hexachlorobutadiene	1300	0	1100	ug/Kg	85	8			44	126	20
Caprolactam	1300	0	1300	ug/Kg	100	8			51	134	20
4-Chloro-3-methylphenol	1300	0	1100	ug/Kg	85	8			57	132	20
2-Methylnaphthalene	1300	0	1100	ug/Kg	85	8			59	123	20
Hexachlorocyclopentadiene	2500	0	1600	ug/Kg	64	0			10	175	20
2,4,6-Trichlorophenol	1300	0	1100	ug/Kg	85	8			33	141	20
2,4,5-Trichlorophenol	1300	0	1100	ug/Kg	85	8			38	135	20
1,1-Biphenyl	1300	0	1200	ug/Kg	92	0			55	131	20
2-Chloronaphthalene	1300	0	1100	ug/Kg	85	8			48	124	20
2-Nitroaniline	1300	0	1200	ug/Kg	92	0			47	134	20
Dimethylphthalate	1300	0	1200	ug/Kg	92	8			54	120	20
Acenaphthylene	1300	0	1100	ug/Kg	85	8			57	125	20
2,6-Dinitrotoluene	1300	0	1200	ug/Kg	92	0			48	127	20
3-Nitroaniline	1300	0	720	ug/Kg	55	9			10	112	20
Acenaphthene	1300	0	1200	ug/Kg	92	8			70	121	20
2,4-Dinitrophenol	2500	0	2100	ug/Kg	84	5			10	155	20
4-Nitrophenol	2500	0	1900	ug/Kg	76	10			10	175	20
Dibenzofuran	1300	0	1100	ug/Kg	85	8			52	114	20
2,4-Dinitrotoluene	1300	0	1100	ug/Kg	85	8			41	140	20
Diethylphthalate	1300	0	1200	ug/Kg	92	8			51	119	20
4-Chlorophenyl-phenylether	1300	0	1100	ug/Kg	85	8			48	122	20
Fluorene	1300	70.1	1100	ug/Kg	79	10			53	118	20
4-Nitroaniline	1300	0	1000	ug/Kg	77	18			29	140	20
4,6-Dinitro-2-methylphenol	1300	0	1100	ug/Kg	85	8			10	160	20
N-Nitrosodiphenylamine	1300	0	1300	ug/Kg	100	0			73	118	20
4-Bromophenyl-phenylether	1300	0	1300	ug/Kg	100	0			65	121	20
Hexachlorobenzene	1300	0	1200	ug/Kg	92	0			67	118	20
Atrazine	1300	0	1500	ug/Kg	115	0			45	175	20

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2484 **Analytical Method:** SW8270E

Client: CDM Smith **DataFile:** BF142983.D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Pentachlorophenol	2500	0	2300	ug/Kg	92		0		13	153	20
Phenanthrene	1300	420	1400	ug/Kg	75		10		52	128	20
Anthracene	1300	64.9	1200	ug/Kg	87		0		62	124	20
Carbazole	1300	56.1	1200	ug/Kg	88		0		59	119	20
Di-n-butylphthalate	1300	0	1400	ug/Kg	108		6		55	125	20
Fluoranthene	1300	1200	2000	ug/Kg	62		11		44	125	20
Pyrene	1300	680	1400	ug/Kg	55		0		37	122	20
Butylbenzylphthalate	1300	0	1200	ug/Kg	92		8		44	135	20
3,3-Dichlorobenzidine	1300	0	750	ug/Kg	58		2		15	112	20
Benzo(a)anthracene	1300	390	1500	ug/Kg	85		0		53	119	20
Chrysene	1300	500	1500	ug/Kg	77		10		57	121	20
bis(2-Ethylhexyl)phthalate	1300	0	1200	ug/Kg	92		8		42	169	20
Di-n-octyl phthalate	1300	0	1100	ug/Kg	85		0		51	156	20
Benzo(b)fluoranthene	1300	660	1800	ug/Kg	88		0		52	117	20
Benzo(k)fluoranthene	1300	210	1600	ug/Kg	107		0		57	134	20
Benzo(a)pyrene	1300	310	1400	ug/Kg	84		9		70	142	20
Indeno(1,2,3-cd)pyrene	1300	100	860	ug/Kg	58		5		40	129	20
Dibenz(a,h)anthracene	1300	0	800	ug/Kg	62		5		43	123	20
Benzo(g,h,i)perylene	1300	120	820	ug/Kg	54		4		24	125	20
1,2,4,5-Tetrachlorobenzene	1300	0	1200	ug/Kg	92		0		52	134	20
1,4-Dioxane	1300	0	900	ug/Kg	69		1		46	112	20
2,3,4,6-Tetrachlorophenol	1300	0	1000	ug/Kg	77		10		24	146	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2484 **Analytical Method:** 8270E

Client: CDM Smith **DataFile:** BF142989.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB168694BS	Benzaldehyde	1700	920	ug/Kg	54				10	133	
	Phenol	1700	1400	ug/Kg	82				62	112	
	bis(2-Chloroethyl)ether	1700	1400	ug/Kg	82				60	101	
	2-Chlorophenol	1700	1400	ug/Kg	82				65	112	
	2-Methylphenol	1700	1400	ug/Kg	82				61	108	
	2,2-oxybis(1-Chloropropane)	1700	1400	ug/Kg	82				51	100	
	Acetophenone	1700	1500	ug/Kg	88				66	98	
	3+4-Methylphenols	1700	1400	ug/Kg	82				58	111	
	N-Nitroso-di-n-propylamine	1700	1400	ug/Kg	82				63	95	
	Hexachloroethane	1700	1500	ug/Kg	88				72	108	
	Nitrobenzene	1700	1500	ug/Kg	88				57	101	
	Isophorone	1700	1400	ug/Kg	82				59	99	
	2-Nitrophenol	1700	1500	ug/Kg	88				61	111	
	2,4-Dimethylphenol	1700	1400	ug/Kg	82				46	141	
	bis(2-Chloroethoxy)methane	1700	1500	ug/Kg	88				66	97	
	2,4-Dichlorophenol	1700	1500	ug/Kg	88				62	107	
	Naphthalene	1700	1500	ug/Kg	88				62	100	
	4-Chloroaniline	1700	980	ug/Kg	58				16	100	
	Hexachlorobutadiene	1700	1500	ug/Kg	88				53	98	
	Caprolactam	1700	1500	ug/Kg	88				67	110	
	4-Chloro-3-methylphenol	1700	1400	ug/Kg	82				58	112	
	2-Methylnaphthalene	1700	1500	ug/Kg	88				60	104	
	Hexachlorocyclopentadiene	3300	2900	ug/Kg	88				45	165	
	2,4,6-Trichlorophenol	1700	1500	ug/Kg	88				59	102	
	2,4,5-Trichlorophenol	1700	1500	ug/Kg	88				61	98	
	1,1-Biphenyl	1700	1500	ug/Kg	88				57	103	
	2-Chloronaphthalene	1700	1500	ug/Kg	88				58	99	
	2-Nitroaniline	1700	1400	ug/Kg	82				66	101	
	Dimethylphthalate	1700	1500	ug/Kg	88				61	99	
	Acenaphthylene	1700	1500	ug/Kg	88				63	101	
	2,6-Dinitrotoluene	1700	1500	ug/Kg	88				61	104	
	3-Nitroaniline	1700	1000	ug/Kg	59				28	100	
	Acenaphthene	1700	1600	ug/Kg	94				57	104	
	2,4-Dinitrophenol	3300	2800	ug/Kg	85				37	128	
	4-Nitrophenol	3300	2600	ug/Kg	79				48	119	
	Dibenzofuran	1700	1500	ug/Kg	88				63	99	
	2,4-Dinitrotoluene	1700	1500	ug/Kg	88				60	106	
	Diethylphthalate	1700	1500	ug/Kg	88				60	101	
	4-Chlorophenyl-phenylether	1700	1500	ug/Kg	88				58	98	
	Fluorene	1700	1500	ug/Kg	88				61	101	
	4-Nitroaniline	1700	1400	ug/Kg	82				64	103	
	4,6-Dinitro-2-methylphenol	1700	1500	ug/Kg	88				76	113	
	N-Nitrosodiphenylamine	1700	1600	ug/Kg	94				71	99	
	4-Bromophenyl-phenylether	1700	1600	ug/Kg	94				66	102	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2484 **Analytical Method:** 8270E

Client: CDM Smith **DataFile:** BF142989.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB168694BS	Hexachlorobenzene	1700	1600	ug/Kg	94				64	98	
	Atrazine	1700	1800	ug/Kg	106				47	152	
	Pentachlorophenol	3300	2900	ug/Kg	88				67	105	
	Phenanthrene	1700	1500	ug/Kg	88				59	103	
	Anthracene	1700	1500	ug/Kg	88				61	105	
	Carbazole	1700	1500	ug/Kg	88				61	99	
	Di-n-butylphthalate	1700	1700	ug/Kg	100				58	104	
	Fluoranthene	1700	1500	ug/Kg	88				57	107	
	Pyrene	1700	1200	ug/Kg	71				59	103	
	Butylbenzylphthalate	1700	1800	ug/Kg	106		*		55	103	
	3,3-Dichlorobenzidine	1700	1000	ug/Kg	59				42	91	
	Benzo(a)anthracene	1700	1500	ug/Kg	88				60	102	
	Chrysene	1700	1500	ug/Kg	88				59	101	
	bis(2-Ethylhexyl)phthalate	1700	1800	ug/Kg	106				54	135	
	Di-n-octyl phthalate	1700	1700	ug/Kg	100				52	137	
	Benzo(b)fluoranthene	1700	1700	ug/Kg	100				62	109	
	Benzo(k)fluoranthene	1700	1400	ug/Kg	82				62	109	
	Benzo(a)pyrene	1700	1600	ug/Kg	94				63	103	
	Indeno(1,2,3-cd)pyrene	1700	1400	ug/Kg	82				63	101	
	Dibenz(a,h)anthracene	1700	1400	ug/Kg	82				61	112	
	Benzo(g,h,i)perylene	1700	1400	ug/Kg	82				70	108	
	1,2,4,5-Tetrachlorobenzene	1700	1500	ug/Kg	88				53	101	
	1,4-Dioxane	1700	1100	ug/Kg	65				50	96	
	2,3,4,6-Tetrachlorophenol	1700	1400	ug/Kg	82				59	108	

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

Client ID: PB168694BL

Lab Name: Alliance | Contract: CAMP02

Lab Code: ACE | SDG NO.: Q2484

Lab File ID: BF142988.D | Lab Sample ID: PB168694BL

Instrument ID: BNA_F | Date Extracted: 07/02/2025

Matrix: (soil/water) SOIL | Date Analyzed: 07/03/2025

Level: (low/med) LOW | Time Analyzed: 10:26

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB168694BS	PB168694BS	BF142989.D	07/03/2025
TP-57	Q2484-02	BF142995.D	07/03/2025
TP-107	Q2484-04	BF143000.D	07/03/2025
TP-104	Q2484-06	BF142996.D	07/03/2025
TP-106	Q2484-05	BF142997.D	07/03/2025
TP-58	Q2484-01	BF143018.D	07/07/2025
TP-64	Q2484-03	BF143021.D	07/07/2025
SOIL-PILEMS	Q2475-01MS	BF142982.D	07/02/2025
SOIL-PILEMSD	Q2475-01MSD	BF142983.D	07/02/2025

COMMENTS:

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG NO.: Q2484

Lab File ID: BF142787.D DFTPP Injection Date: 06/19/2025

Instrument ID: BNA_F DFTPP Injection Time: 16:37

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	33.9
68	Less than 2.0% of mass 69	0.6 (1.8) 1
69	Mass 69 relative abundance	30.9
70	Less than 2.0% of mass 69	0.1 (0.5) 1
127	10.0 - 80.0% of mass 198	41.6
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	5.8
275	10.0 - 60.0% of mass 198	24.9
365	Greater than 1% of mass 198	3.3
441	Present, but less than mass 443	15
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19.1 (19.1) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC2.5	SSTDICC2.5	BF142788.D	06/19/2025	17:07
SSTDICC005	SSTDICC005	BF142789.D	06/19/2025	17:38
SSTDICC010	SSTDICC010	BF142790.D	06/19/2025	18:08
SSTDICC020	SSTDICC020	BF142791.D	06/19/2025	18:39
SSTDICCC040	SSTDICCC040	BF142792.D	06/19/2025	19:09
SSTDICC050	SSTDICC050	BF142793.D	06/19/2025	19:40
SSTDICC060	SSTDICC060	BF142794.D	06/19/2025	20:10
SSTDICC080	SSTDICC080	BF142795.D	06/19/2025	20:40

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG NO.: Q2484

Lab File ID: BF142963.D DFTPP Injection Date: 07/02/2025

Instrument ID: BNA_F DFTPP Injection Time: 11:11

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	29.2
68	Less than 2.0% of mass 69	0.5 (1.9) 1
69	Mass 69 relative abundance	28.3
70	Less than 2.0% of mass 69	0.1 (0.4) 1
127	10.0 - 80.0% of mass 198	38.7
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	5.6
275	10.0 - 60.0% of mass 198	24.9
365	Greater than 1% of mass 198	3.1
441	Present, but less than mass 443	15.3
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	18.9 (18.9) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF142964.D	07/02/2025	11:41
SOIL-PILEMS	Q2475-01MS	BF142982.D	07/02/2025	20:52
SOIL-PILEMSD	Q2475-01MSD	BF142983.D	07/02/2025	21:22

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG NO.: Q2484

Lab File ID: BF142986.D DFTPP Injection Date: 07/03/2025

Instrument ID: BNA_F DFTPP Injection Time: 09:25

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	30.1
68	Less than 2.0% of mass 69	0.5 (1.8) 1
69	Mass 69 relative abundance	28.4
70	Less than 2.0% of mass 69	0.1 (0.3) 1
127	10.0 - 80.0% of mass 198	39
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	5.4
275	10.0 - 60.0% of mass 198	24.2
365	Greater than 1% of mass 198	3.2
441	Present, but less than mass 443	15.2
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	18.8 (18.8) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF142987.D	07/03/2025	09:55
PB168694BL	PB168694BL	BF142988.D	07/03/2025	10:26
PB168694BS	PB168694BS	BF142989.D	07/03/2025	10:55
TP-57	Q2484-02	BF142995.D	07/03/2025	14:25
TP-104	Q2484-06	BF142996.D	07/03/2025	14:56
TP-106	Q2484-05	BF142997.D	07/03/2025	15:27
TP-107	Q2484-04	BF143000.D	07/03/2025	16:59

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG NO.: Q2484

Lab File ID: BF143002.D DFTPP Injection Date: 07/07/2025

Instrument ID: BNA_F DFTPP Injection Time: 11:12

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	32.2
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	29.4
70	Less than 2.0% of mass 69	0.0 (0.0) 1
127	10.0 - 80.0% of mass 198	42.4
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6
275	10.0 - 60.0% of mass 198	25.1
365	Greater than 1% of mass 198	3.4
441	Present, but less than mass 443	15.5
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19 (19) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF143003.D	07/07/2025	12:12
TP-58	Q2484-01	BF143018.D	07/07/2025	19:51
TP-64	Q2484-03	BF143021.D	07/07/2025	21:22

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance | Contract: CAMP02

Lab Code: ACE | SDG NO.: Q2484

Lab File ID: BF143024.D | DFTPP Injection Date: 07/08/2025

Instrument ID: BNA_F | DFTPP Injection Time: 10:24

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	34.6
68	Less than 2.0% of mass 69	0.6 (2) 1
69	Mass 69 relative abundance	32.1
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	44.5
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6
275	10.0 - 60.0% of mass 198	25.6
365	Greater than 1% of mass 198	3.3
441	Present, but less than mass 443	15.7
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	18.8 (18.8) 2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF143025.D	07/08/2025	10:54
TP-58DL	Q2484-01DL	BF143042.D	07/08/2025	19:41

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE SDG NO.: Q2484

Client ID : SSTDCCC040 Date Analyzed: 07/02/2025

Lab File ID: BF142964.D Time Analyzed: 11:41

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	58835	6.875	223613	8.16	116653	9.92
	UPPER LIMIT	117670	7.375	447226	8.657	233306	10.416
	LOWER LIMIT	29417.5	6.375	111807	7.657	58326.5	9.416
	EPA SAMPLE NO.						
01	SOIL-PILEMS	59177	6.88	222831	8.16	115354	9.92
02	SOIL-PILEMSD	59335	6.88	228314	8.16	114108	9.92

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE SDG NO.: Q2484

Client ID: SSTDCCC040 Date Analyzed: 07/02/2025

Lab File ID: BF142964.D Time Analyzed: 11:41

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	194796	11.404	118183	14.051	123997	15.545
	UPPER LIMIT	389592	11.904	236366	14.551	247994	16.045
	LOWER LIMIT	97398	10.904	59091.5	13.551	61998.5	15.045
	EPA SAMPLE NO.						
01	SOIL-PILEMS	168872	11.40	125535	14.06	103117	15.55
02	SOIL-PILEMSD	156089	11.40	121729	14.05	97715	15.55

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE SDG NO.: Q2484

Client ID : SSTDCCC040 Date Analyzed: 07/03/2025

Lab File ID: BF142987.D Time Analyzed: 09:55

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	62161	6.875	229765	8.16	116751	9.92
	UPPER LIMIT	124322	7.375	459530	8.657	233502	10.416
	LOWER LIMIT	31080.5	6.375	114883	7.657	58375.5	9.416
	EPA SAMPLE NO.						
01	TP-107	72090	6.88	273008	8.16	142530	9.91
02	TP-106	73257	6.88	282718	8.16	149800	9.91
03	TP-104	71564	6.88	274705	8.16	149203	9.91
04	PB168694BL	74523	6.88	286767	8.16	155660	9.92
05	PB168694BS	59015	6.88	219896	8.16	110519	9.92
06	TP-57	70834	6.88	271831	8.16	145167	9.92

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE SDG NO.: Q2484

Client ID: SSTDCCC040 Date Analyzed: 07/03/2025

Lab File ID: BF142987.D Time Analyzed: 09:55

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	185461	11.404	107728	14.051	131364	15.545
	UPPER LIMIT	370922	11.904	215456	14.551	262728	16.045
	LOWER LIMIT	92730.5	10.904	53864	13.551	65682	15.045
	EPA SAMPLE NO.						
01	TP-107	220931	11.40	143481	14.05	173151	15.54
02	TP-106	249447	11.40	144108	14.05	179957	15.54
03	TP-104	257344	11.40	143815	14.05	171301	15.54
04	PB168694BL	262266	11.40	143100	14.05	155357	15.55
05	PB168694BS	169244	11.41	114618	14.06	135774	15.55
06	TP-57	247026	11.40	137001	14.05	171675	15.55

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE SDG NO.: Q2484

Client ID : SSTDCCC040 Date Analyzed: 07/07/2025

Lab File ID: BF143003.D Time Analyzed: 12:12

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	66299	6.875	250576	8.16	128386	9.92
	UPPER LIMIT	132598	7.375	501152	8.663	256772	10.422
	LOWER LIMIT	33149.5	6.375	125288	7.663	64193	9.422
	EPA SAMPLE NO.						
01	TP-58	47809	6.88	165637	8.16	87479	9.92
02	TP-64	45344	6.88	158652	8.16	77572	9.92

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE SDG NO.: Q2484

Client ID: SSTDCCC040 Date Analyzed: 07/07/2025

Lab File ID: BF143003.D Time Analyzed: 12:12

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	196682	11.41	115356	14.057	146144	15.551
	UPPER LIMIT	393364	11.91	230712	14.557	292288	16.051
	LOWER LIMIT	98341	10.91	57678	13.557	73072	15.051
	EPA SAMPLE NO.						
01	TP-58	153411	11.41	121305	14.07	91137	15.56
02	TP-64	140588	11.40	110239	14.06	80889	15.56

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

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* Values outside of QC limits.

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE SDG NO.: Q2484

Client ID : SSTDCCC040 Date Analyzed: 07/08/2025

Lab File ID: BF143025.D Time Analyzed: 10:54

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	66813	6.875	257725	8.16	136330	9.92
	UPPER LIMIT	133626	7.375	515450	8.663	272660	10.422
	LOWER LIMIT	33406.5	6.375	128863	7.663	68165	9.422
	EPA SAMPLE NO.						
01	TP-58DL	55124	6.87	205762	8.16	101508	9.92

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE SDG NO.: Q2484

Client ID: SSTDCCC040 Date Analyzed: 07/08/2025

Lab File ID: BF143025.D Time Analyzed: 10:54

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	218169	11.41	109391	14.063	135350	15.557
	UPPER LIMIT	436338	11.91	218782	14.563	270700	16.057
	LOWER LIMIT	109085	10.91	54695.5	13.563	67675	15.057
	EPA SAMPLE NO.						
01	TP-58DL	147948	11.40	119601	14.05	141551	15.55

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

QC SAMPLE DATA

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168694BL	SDG No.:	Q2484
Lab Sample ID:	PB168694BL	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142988.D	1	07/02/25 08:55	07/03/25 10:26	PB168694

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	160	U	160	330	ug/Kg
108-95-2	Phenol	22.1	U	22.1	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	24.3	U	24.3	170	ug/Kg
95-57-8	2-Chlorophenol	24.4	U	24.4	170	ug/Kg
95-48-7	2-Methylphenol	29.9	U	29.9	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	37.5	U	37.5	170	ug/Kg
98-86-2	Acetophenone	29.5	U	29.5	170	ug/Kg
65794-96-9	3+4-Methylphenols	41.1	U	41.1	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	47.4	U	47.4	80.0	ug/Kg
67-72-1	Hexachloroethane	17.6	U	17.6	170	ug/Kg
98-95-3	Nitrobenzene	18.3	U	18.3	170	ug/Kg
78-59-1	Isophorone	32.8	U	32.8	170	ug/Kg
88-75-5	2-Nitrophenol	58.2	U	58.2	170	ug/Kg
105-67-9	2,4-Dimethylphenol	64.8	U	64.8	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	30.8	U	30.8	170	ug/Kg
120-83-2	2,4-Dichlorophenol	28.3	U	28.3	170	ug/Kg
91-20-3	Naphthalene	22.7	U	22.7	170	ug/Kg
106-47-8	4-Chloroaniline	35.4	U	35.4	170	ug/Kg
87-68-3	Hexachlorobutadiene	25.3	U	25.3	170	ug/Kg
105-60-2	Caprolactam	52.1	U	52.1	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	28.7	U	28.7	170	ug/Kg
91-57-6	2-Methylnaphthalene	25.6	U	25.6	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	120	U	120	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	19.8	U	19.8	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	29.1	U	29.1	170	ug/Kg
92-52-4	1,1-Biphenyl	21.8	U	21.8	170	ug/Kg
91-58-7	2-Chloronaphthalene	22.5	U	22.5	170	ug/Kg
88-74-4	2-Nitroaniline	48.1	U	48.1	170	ug/Kg
131-11-3	Dimethylphthalate	27.1	U	27.1	170	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168694BL	SDG No.:	Q2484
Lab Sample ID:	PB168694BL	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142988.D	1	07/02/25 08:55	07/03/25 10:26	PB168694

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	28.9	U	28.9	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	33.6	U	33.6	170	ug/Kg
99-09-2	3-Nitroaniline	46.0	U	46.0	170	ug/Kg
83-32-9	Acenaphthene	21.3	U	21.3	170	ug/Kg
51-28-5	2,4-Dinitrophenol	230	U	230	330	ug/Kg
100-02-7	4-Nitrophenol	110	U	110	330	ug/Kg
132-64-9	Dibenzofuran	22.7	U	22.7	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	50.1	U	50.1	170	ug/Kg
84-66-2	Diethylphthalate	28.3	U	28.3	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	26.7	U	26.7	170	ug/Kg
86-73-7	Fluorene	25.3	U	25.3	170	ug/Kg
100-01-6	4-Nitroaniline	64.2	U	64.2	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	100	U	100	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	32.9	U	32.9	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	27.8	U	27.8	170	ug/Kg
118-74-1	Hexachlorobenzene	25.3	U	25.3	170	ug/Kg
1912-24-9	Atrazine	34.0	U	34.0	170	ug/Kg
87-86-5	Pentachlorophenol	51.3	U	51.3	330	ug/Kg
85-01-8	Phenanthrene	20.9	U	20.9	170	ug/Kg
120-12-7	Anthracene	33.3	U	33.3	170	ug/Kg
86-74-8	Carbazole	31.2	U	31.2	170	ug/Kg
84-74-2	Di-n-butylphthalate	47.9	U	47.9	170	ug/Kg
206-44-0	Fluoranthene	30.0	U	30.0	170	ug/Kg
129-00-0	Pyrene	36.0	U	36.0	170	ug/Kg
85-68-7	Butylbenzylphthalate	71.4	U	71.4	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	36.7	U	36.7	330	ug/Kg
56-55-3	Benzo(a)anthracene	23.0	U	23.0	170	ug/Kg
218-01-9	Chrysene	19.9	U	19.9	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	59.2	U	59.2	170	ug/Kg
117-84-0	Di-n-octyl phthalate	86.8	U	86.8	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	19.0	U	19.0	170	ug/Kg

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Report of Analysis

Client:	CDM Smith			Date Collected:	
Project:	South River WM Replacement			Date Received:	
Client Sample ID:	PB168694BL			SDG No.:	Q2484
Lab Sample ID:	PB168694BL			Matrix:	SOIL
Analytical Method:	8270E			% Solid:	100
Sample Wt/Vol:	30.01	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOC-TCL BNA -20
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142988.D	1	07/02/25 08:55	07/03/25 10:26	PB168694

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	22.4	U	22.4	170	ug/Kg
50-32-8	Benzo(a)pyrene	29.5	U	29.5	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	29.1	U	29.1	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	27.4	U	27.4	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	25.7	U	25.7	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	25.6	U	25.6	170	ug/Kg
123-91-1	1,4-Dioxane	45.2	U	45.2	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	27.4	U	27.4	170	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	121		18 - 112	81%	SPK: 150
13127-88-3	Phenol-d6	119		15 - 107	80%	SPK: 150
4165-60-0	Nitrobenzene-d5	76.7		18 - 107	77%	SPK: 100
321-60-8	2-Fluorobiphenyl	75.5		20 - 109	76%	SPK: 100
118-79-6	2,4,6-Tribromophenol	124		10 - 116	82%	SPK: 150
1718-51-0	Terphenyl-d14	76.8		10 - 105	77%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	74500	6.875			
1146-65-2	Naphthalene-d8	287000	8.157			
15067-26-2	Acenaphthene-d10	156000	9.916			
1517-22-2	Phenanthrene-d10	262000	11.404			
1719-03-5	Chrysene-d12	143000	14.051			
1520-96-3	Perylene-d12	155000	15.545			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	300	A		5.11	ug/Kg
006311-48-4	(1,1-Biphenyl)-4,4-diamine, N,N	390	J		17.2	ug/Kg

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Report of Analysis

Client:	CDM Smith			Date Collected:	
Project:	South River WM Replacement			Date Received:	
Client Sample ID:	PB168694BL			SDG No.:	Q2484
Lab Sample ID:	PB168694BL			Matrix:	SOIL
Analytical Method:	8270E			% Solid:	100
Sample Wt/Vol:	30.01	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOC-TCL BNA -20
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142988.D	1	07/02/25 08:55	07/03/25 10:26	PB168694

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168694BS	SDG No.:	Q2484
Lab Sample ID:	PB168694BS	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142989.D	1	07/02/25 08:55	07/03/25 10:55	PB168694

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	920		160	330	ug/Kg
108-95-2	Phenol	1400		22.1	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1400		24.3	170	ug/Kg
95-57-8	2-Chlorophenol	1400		24.4	170	ug/Kg
95-48-7	2-Methylphenol	1400		29.9	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1400		37.5	170	ug/Kg
98-86-2	Acetophenone	1500		29.5	170	ug/Kg
65794-96-9	3+4-Methylphenols	1400		41.1	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1400		47.4	79.9	ug/Kg
67-72-1	Hexachloroethane	1500		17.6	170	ug/Kg
98-95-3	Nitrobenzene	1500		18.3	170	ug/Kg
78-59-1	Isophorone	1400		32.8	170	ug/Kg
88-75-5	2-Nitrophenol	1500		58.1	170	ug/Kg
105-67-9	2,4-Dimethylphenol	1400		64.7	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1500		30.8	170	ug/Kg
120-83-2	2,4-Dichlorophenol	1500		28.3	170	ug/Kg
91-20-3	Naphthalene	1500		22.7	170	ug/Kg
106-47-8	4-Chloroaniline	980		35.4	170	ug/Kg
87-68-3	Hexachlorobutadiene	1500		25.3	170	ug/Kg
105-60-2	Caprolactam	1500		52.0	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1400		28.7	170	ug/Kg
91-57-6	2-Methylnaphthalene	1500		25.6	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	2900	E	120	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1500		19.8	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1500		29.1	170	ug/Kg
92-52-4	1,1-Biphenyl	1500		21.8	170	ug/Kg
91-58-7	2-Chloronaphthalene	1500		22.5	170	ug/Kg
88-74-4	2-Nitroaniline	1400		48.1	170	ug/Kg
131-11-3	Dimethylphthalate	1500		27.1	170	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168694BS	SDG No.:	Q2484
Lab Sample ID:	PB168694BS	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142989.D	1	07/02/25 08:55	07/03/25 10:55	PB168694

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1500		28.9	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	1500		33.6	170	ug/Kg
99-09-2	3-Nitroaniline	1000		46.0	170	ug/Kg
83-32-9	Acenaphthene	1600		21.3	170	ug/Kg
51-28-5	2,4-Dinitrophenol	2800	E	230	330	ug/Kg
100-02-7	4-Nitrophenol	2600		110	330	ug/Kg
132-64-9	Dibenzofuran	1500		22.7	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	1500		50.0	170	ug/Kg
84-66-2	Diethylphthalate	1500		28.3	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1500		26.7	170	ug/Kg
86-73-7	Fluorene	1500		25.3	170	ug/Kg
100-01-6	4-Nitroaniline	1400		64.1	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1500		100	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1600		32.9	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1600		27.8	170	ug/Kg
118-74-1	Hexachlorobenzene	1600		25.3	170	ug/Kg
1912-24-9	Atrazine	1800		34.0	170	ug/Kg
87-86-5	Pentachlorophenol	2900	E	51.2	330	ug/Kg
85-01-8	Phenanthrene	1500		20.9	170	ug/Kg
120-12-7	Anthracene	1500		33.3	170	ug/Kg
86-74-8	Carbazole	1500		31.2	170	ug/Kg
84-74-2	Di-n-butylphthalate	1700		47.9	170	ug/Kg
206-44-0	Fluoranthene	1500		30.0	170	ug/Kg
129-00-0	Pyrene	1200		36.0	170	ug/Kg
85-68-7	Butylbenzylphthalate	1800		71.3	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1000		36.7	330	ug/Kg
56-55-3	Benzo(a)anthracene	1500		23.0	170	ug/Kg
218-01-9	Chrysene	1500		19.9	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1800		59.1	170	ug/Kg
117-84-0	Di-n-octyl phthalate	1700		86.7	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	1700		19.0	170	ug/Kg

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Fax : 908 789 8922

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168694BS	SDG No.:	Q2484
Lab Sample ID:	PB168694BS	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142989.D	1	07/02/25 08:55	07/03/25 10:55	PB168694

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1400		22.4	170	ug/Kg
50-32-8	Benzo(a)pyrene	1600		29.5	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1400		29.1	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1400		27.4	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1400		25.7	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1500		25.6	170	ug/Kg
123-91-1	1,4-Dioxane	1100		45.2	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1400		27.4	170	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	119		18 - 112	80%	SPK: 150
13127-88-3	Phenol-d6	117		15 - 107	78%	SPK: 150
4165-60-0	Nitrobenzene-d5	76.6		18 - 107	77%	SPK: 100
321-60-8	2-Fluorobiphenyl	79.8		20 - 109	80%	SPK: 100
118-79-6	2,4,6-Tribromophenol	122		10 - 116	81%	SPK: 150
1718-51-0	Terphenyl-d14	67.7		10 - 105	68%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	59000	6.875			
1146-65-2	Naphthalene-d8	220000	8.157			
15067-26-2	Acenaphthene-d10	111000	9.916			
1517-22-2	Phenanthrene-d10	169000	11.41			
1719-03-5	Chrysene-d12	115000	14.057			
1520-96-3	Perylene-d12	136000	15.551			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	SOIL-PILEMS	SDG No.:	Q2484
Lab Sample ID:	Q2475-01MS	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	79.7
Sample Wt/Vol:	50.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142982.D	1	07/02/25 08:55	07/02/25 20:52	PB168694

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	1300		120	250	ug/Kg
108-95-2	Phenol	1100		16.6	130	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1100		18.3	130	ug/Kg
95-57-8	2-Chlorophenol	1100		18.3	130	ug/Kg
95-48-7	2-Methylphenol	1200		22.5	130	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1100		28.2	130	ug/Kg
98-86-2	Acetophenone	1200		22.2	130	ug/Kg
65794-96-9	3+4-Methylphenols	1200		30.9	250	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1100		35.6	60.1	ug/Kg
67-72-1	Hexachloroethane	1100		13.2	130	ug/Kg
98-95-3	Nitrobenzene	1100		13.8	130	ug/Kg
78-59-1	Isophorone	1200		24.7	130	ug/Kg
88-75-5	2-Nitrophenol	1200		43.8	130	ug/Kg
105-67-9	2,4-Dimethylphenol	1100		48.7	130	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1200		23.2	130	ug/Kg
120-83-2	2,4-Dichlorophenol	1200		21.3	130	ug/Kg
91-20-3	Naphthalene	1200		17.1	130	ug/Kg
106-47-8	4-Chloroaniline	590		26.6	130	ug/Kg
87-68-3	Hexachlorobutadiene	1200		19.0	130	ug/Kg
105-60-2	Caprolactam	1400		39.2	250	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1200		21.6	130	ug/Kg
91-57-6	2-Methylnaphthalene	1200		19.2	130	ug/Kg
77-47-4	Hexachlorocyclopentadiene	1600		87.2	250	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1200		14.9	130	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1200		21.9	130	ug/Kg
92-52-4	1,1-Biphenyl	1200		16.4	130	ug/Kg
91-58-7	2-Chloronaphthalene	1200		16.9	130	ug/Kg
88-74-4	2-Nitroaniline	1200		36.2	130	ug/Kg
131-11-3	Dimethylphthalate	1300		20.4	130	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	SOIL-PILEMS	SDG No.:	Q2484
Lab Sample ID:	Q2475-01MS	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	79.7
Sample Wt/Vol:	50.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142982.D	1	07/02/25 08:55	07/02/25 20:52	PB168694

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1200		21.7	130	ug/Kg
606-20-2	2,6-Dinitrotoluene	1200		25.3	130	ug/Kg
99-09-2	3-Nitroaniline	780		34.6	130	ug/Kg
83-32-9	Acenaphthene	1300		16.0	130	ug/Kg
51-28-5	2,4-Dinitrophenol	2200	E	170	250	ug/Kg
100-02-7	4-Nitrophenol	2100	E	80.4	250	ug/Kg
132-64-9	Dibenzofuran	1200		17.1	130	ug/Kg
121-14-2	2,4-Dinitrotoluene	1200		37.7	130	ug/Kg
84-66-2	Diethylphthalate	1300		21.3	130	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1200		20.1	130	ug/Kg
86-73-7	Fluorene	1200		19.0	130	ug/Kg
100-01-6	4-Nitroaniline	1200		48.3	130	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1200		77.4	250	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1300		24.7	130	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1300		20.9	130	ug/Kg
118-74-1	Hexachlorobenzene	1200		19.0	130	ug/Kg
1912-24-9	Atrazine	1500		25.6	130	ug/Kg
87-86-5	Pentachlorophenol	2300	E	38.6	250	ug/Kg
85-01-8	Phenanthrene	1500		15.7	130	ug/Kg
120-12-7	Anthracene	1200		25.0	130	ug/Kg
86-74-8	Carbazole	1200		23.5	130	ug/Kg
84-74-2	Di-n-butylphthalate	1500		36.0	130	ug/Kg
206-44-0	Fluoranthene	2100	E	22.6	130	ug/Kg
129-00-0	Pyrene	1400		27.1	130	ug/Kg
85-68-7	Butylbenzylphthalate	1300		53.7	130	ug/Kg
91-94-1	3,3-Dichlorobenzidine	740		27.6	250	ug/Kg
56-55-3	Benzo(a)anthracene	1500		17.3	130	ug/Kg
218-01-9	Chrysene	1600		15.0	130	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1300		44.5	130	ug/Kg
117-84-0	Di-n-octyl phthalate	1100		65.3	250	ug/Kg
205-99-2	Benzo(b)fluoranthene	1800		14.3	130	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	SOIL-PILEMS	SDG No.:	Q2484
Lab Sample ID:	Q2475-01MS	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	79.7
Sample Wt/Vol:	50.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142982.D	1	07/02/25 08:55	07/02/25 20:52	PB168694

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1600		16.8	130	ug/Kg
50-32-8	Benzo(a)pyrene	1500		22.2	130	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	890		21.9	130	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	840		20.6	130	ug/Kg
191-24-2	Benzo(g,h,i)perylene	850		19.3	130	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1200		19.2	130	ug/Kg
123-91-1	1,4-Dioxane	890		34.0	130	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1100		20.6	130	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	70.7		18 - 112	47%	SPK: 150
13127-88-3	Phenol-d6	74.0		15 - 107	49%	SPK: 150
4165-60-0	Nitrobenzene-d5	46.8		18 - 107	47%	SPK: 100
321-60-8	2-Fluorobiphenyl	43.0		20 - 109	43%	SPK: 100
118-79-6	2,4,6-Tribromophenol	67.8		10 - 116	45%	SPK: 150
1718-51-0	Terphenyl-d14	33.5		10 - 105	33%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	59200	6.875			
1146-65-2	Naphthalene-d8	223000	8.157			
15067-26-2	Acenaphthene-d10	115000	9.916			
1517-22-2	Phenanthrene-d10	169000	11.404			
1719-03-5	Chrysene-d12	126000	14.057			
1520-96-3	Perylene-d12	103000	15.545			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	SOIL-PILEMSD	SDG No.:	Q2484
Lab Sample ID:	Q2475-01MSD	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	79.7
Sample Wt/Vol:	50.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142983.D	1	07/02/25 08:55	07/02/25 21:22	PB168694

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	1200		120	250	ug/Kg
108-95-2	Phenol	1100		16.6	130	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1100		18.3	130	ug/Kg
95-57-8	2-Chlorophenol	1100		18.4	130	ug/Kg
95-48-7	2-Methylphenol	1100		22.5	130	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1000		28.2	130	ug/Kg
98-86-2	Acetophenone	1100		22.2	130	ug/Kg
65794-96-9	3+4-Methylphenols	1200		30.9	250	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1100		35.6	60.2	ug/Kg
67-72-1	Hexachloroethane	1100		13.2	130	ug/Kg
98-95-3	Nitrobenzene	1100		13.8	130	ug/Kg
78-59-1	Isophorone	1100		24.7	130	ug/Kg
88-75-5	2-Nitrophenol	1200		43.8	130	ug/Kg
105-67-9	2,4-Dimethylphenol	1100		48.7	130	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1100		23.2	130	ug/Kg
120-83-2	2,4-Dichlorophenol	1100		21.3	130	ug/Kg
91-20-3	Naphthalene	1100		17.1	130	ug/Kg
106-47-8	4-Chloroaniline	550		26.6	130	ug/Kg
87-68-3	Hexachlorobutadiene	1100		19.0	130	ug/Kg
105-60-2	Caprolactam	1300		39.2	250	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1100		21.6	130	ug/Kg
91-57-6	2-Methylnaphthalene	1100		19.3	130	ug/Kg
77-47-4	Hexachlorocyclopentadiene	1600		87.2	250	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1100		14.9	130	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1100		21.9	130	ug/Kg
92-52-4	1,1-Biphenyl	1200		16.4	130	ug/Kg
91-58-7	2-Chloronaphthalene	1100		16.9	130	ug/Kg
88-74-4	2-Nitroaniline	1200		36.2	130	ug/Kg
131-11-3	Dimethylphthalate	1200		20.4	130	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	SOIL-PILEMSD	SDG No.:	Q2484
Lab Sample ID:	Q2475-01MSD	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	79.7
Sample Wt/Vol:	50.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142983.D	1	07/02/25 08:55	07/02/25 21:22	PB168694

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1100		21.7	130	ug/Kg
606-20-2	2,6-Dinitrotoluene	1200		25.3	130	ug/Kg
99-09-2	3-Nitroaniline	720		34.6	130	ug/Kg
83-32-9	Acenaphthene	1200		16.0	130	ug/Kg
51-28-5	2,4-Dinitrophenol	2100	E	170	250	ug/Kg
100-02-7	4-Nitrophenol	1900		80.5	250	ug/Kg
132-64-9	Dibenzofuran	1100		17.1	130	ug/Kg
121-14-2	2,4-Dinitrotoluene	1100		37.7	130	ug/Kg
84-66-2	Diethylphthalate	1200		21.3	130	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1100		20.1	130	ug/Kg
86-73-7	Fluorene	1100		19.0	130	ug/Kg
100-01-6	4-Nitroaniline	1000		48.3	130	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1100		77.5	250	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1300		24.7	130	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1300		20.9	130	ug/Kg
118-74-1	Hexachlorobenzene	1200		19.0	130	ug/Kg
1912-24-9	Atrazine	1500		25.6	130	ug/Kg
87-86-5	Pentachlorophenol	2300	E	38.6	250	ug/Kg
85-01-8	Phenanthrene	1400		15.7	130	ug/Kg
120-12-7	Anthracene	1200		25.0	130	ug/Kg
86-74-8	Carbazole	1200		23.5	130	ug/Kg
84-74-2	Di-n-butylphthalate	1400		36.0	130	ug/Kg
206-44-0	Fluoranthene	2000	E	22.6	130	ug/Kg
129-00-0	Pyrene	1400		27.1	130	ug/Kg
85-68-7	Butylbenzylphthalate	1200		53.7	130	ug/Kg
91-94-1	3,3-Dichlorobenzidine	750		27.6	250	ug/Kg
56-55-3	Benzo(a)anthracene	1500		17.3	130	ug/Kg
218-01-9	Chrysene	1500		15.0	130	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1200		44.5	130	ug/Kg
117-84-0	Di-n-octyl phthalate	1100		65.3	250	ug/Kg
205-99-2	Benzo(b)fluoranthene	1800		14.3	130	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	SOIL-PILEMSD	SDG No.:	Q2484
Lab Sample ID:	Q2475-01MSD	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	79.7
Sample Wt/Vol:	50.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142983.D	1	07/02/25 08:55	07/02/25 21:22	PB168694

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1600		16.8	130	ug/Kg
50-32-8	Benzo(a)pyrene	1400		22.2	130	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	860		21.9	130	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	800		20.6	130	ug/Kg
191-24-2	Benzo(g,h,i)perylene	820		19.3	130	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1200		19.3	130	ug/Kg
123-91-1	1,4-Dioxane	900		34.0	130	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1000		20.6	130	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	70.0		18 - 112	47%	SPK: 150
13127-88-3	Phenol-d6	73.3		15 - 107	49%	SPK: 150
4165-60-0	Nitrobenzene-d5	44.8		18 - 107	45%	SPK: 100
321-60-8	2-Fluorobiphenyl	42.0		20 - 109	42%	SPK: 100
118-79-6	2,4,6-Tribromophenol	61.7		10 - 116	41%	SPK: 150
1718-51-0	Terphenyl-d14	31.4		10 - 105	31%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	59300	6.875			
1146-65-2	Naphthalene-d8	228000	8.157			
15067-26-2	Acenaphthene-d10	114000	9.916			
1517-22-2	Phenanthrene-d10	156000	11.404			
1719-03-5	Chrysene-d12	122000	14.051			
1520-96-3	Perylene-d12	97700	15.545			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

CALIBRATION SUMMARY

Response Factor Report BNA_F

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF061925.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri Jun 20 05:06:14 2025
Response Via : Initial Calibration

Calibration Files
2.5 =BF142788.D 5 =BF142789.D 10 =BF142790.D 20 =BF142791.D 40 =BF142792.D 50 =BF142793.D 60 =BF142794.D 80 =BF1427
95.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------	ISTD	----------							
2)		1,4-Dioxane		0.479	0.499	0.471	0.461	0.509	0.479	0.467	0.480	3.60
3)		Pyridine		1.190	1.195	1.190	1.164	1.303	1.209	1.181	1.205	3.78
4)		n-Nitrosodimet...			0.610	0.617	0.596	0.668	0.632	0.614	0.623	3.98
5)	S	2-Fluorophenol		2.475	2.460	2.460	2.299	2.525	2.342	2.256	2.403	4.26
6)		Aniline		1.951	1.944	1.891	1.818	1.982	1.869	1.746	1.886	4.41
7)	S	Phenol-d6		3.024	2.962	2.846	2.681	2.959	2.760	2.610	2.834	5.53
8)		2-Chlorophenol		1.362	1.303	1.292	1.245	1.366	1.272	1.231	1.296	4.08
9)		Benzaldehyde			0.988	0.943	0.757	0.832	0.684		0.841	15.02
10)	C	Phenol		1.648	1.653	1.591	1.516	1.651	1.530	1.437	1.575	5.31
11)		bis(2-Chloroet...		1.167	1.133	1.134	1.072	1.183	1.116	1.077	1.126	3.71
12)		1,3-Dichlorobe...		1.536	1.499	1.470	1.377	1.500	1.414	1.348	1.449	4.85
13)	C	1,4-Dichlorobe...		1.563	1.496	1.472	1.409	1.523	1.425	1.347	1.462	5.04
14)		1,2-Dichlorobe...		1.458	1.422	1.409	1.331	1.451	1.353	1.284	1.387	4.72
15)		Benzyl Alcohol			1.023	1.025	0.976	1.106	1.032	0.985	1.025	4.51
16)		2,2'-oxybis(1-...		1.975	1.869	1.815	1.723	1.879	1.758	1.644	1.809	6.12
17)		2-Methylphenol		1.015	0.997	0.980	0.938	1.043	0.972	0.929	0.982	4.13
18)		Hexachloroethane		0.533	0.521	0.507	0.499	0.539	0.498	0.484	0.511	3.89
19)	P	n-Nitroso-di-n...	0.831	0.879	0.840	0.833	0.787	0.847	0.812	0.766	0.824	4.30
20)		3+4-Methylphenols			1.292	1.262	1.176	1.312	1.197	1.108	1.224	6.36
21)	I	Naphthalene-d8	----------	ISTD	----------							
22)		Acetophenone		0.464	0.451	0.459	0.418	0.461	0.428	0.406	0.441	5.28
23)	S	Nitrobenzene-d5		0.738	0.724	0.747	0.708	0.771	0.724	0.694	0.729	3.48
24)		Nitrobenzene		0.345	0.325	0.332	0.319	0.349	0.326	0.314	0.330	3.88
25)		Isophorone		0.611	0.582	0.592	0.555	0.616	0.584	0.554	0.585	4.17
26)	C	2-Nitrophenol		0.169	0.172	0.182	0.178	0.194	0.186	0.176	0.180	4.85
27)		2,4-Dimethylph...		0.322	0.310	0.318	0.300	0.329	0.307	0.294	0.311	3.99
28)		bis(2-Chloroet...		0.386	0.373	0.383	0.355	0.390	0.366	0.351	0.372	4.09
29)	C	2,4-Dichloroph...		0.291	0.280	0.290	0.273	0.298	0.277	0.268	0.282	3.77
30)		1,2,4-Trichlor...		0.324	0.316	0.318	0.299	0.324	0.301	0.292	0.310	4.26
31)		Naphthalene		1.051	1.002	1.004	0.934	1.017	0.943	0.902	0.979	5.46
32)		Benzoic acid			0.118	0.147	0.157	0.181	0.180	0.169	0.159	15.08
33)		4-Chloroaniline		0.414	0.408	0.409	0.379	0.421	0.393	0.363	0.398	5.26
34)	C	Hexachlorobuta...		0.195	0.188	0.198	0.184	0.200	0.184	0.179	0.190	4.30
35)		Caprolactam			0.073	0.075	0.072	0.081	0.078	0.069	0.075	5.84
36)	C	4-Chloro-3-met...		0.300	0.275	0.286	0.269	0.298	0.278	0.260	0.281	5.24
37)		2-Methylnaphth...		0.655	0.621	0.629	0.579	0.631	0.583	0.550	0.607	6.12
38)		1-Methylnaphth...		0.684	0.645	0.650	0.598	0.654	0.604	0.563	0.628	6.56

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF061925.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.626	0.609	0.602	0.557	0.598	0.577	0.563	0.590	4.27
41)	P	Hexachlorocycl...		0.235	0.308	0.336	0.365	0.376	0.389	0.335	17.02
42)	S	2,4,6-Tribromo...	0.415	0.414	0.428	0.400	0.438	0.411	0.374	0.412	4.96
43)	C	2,4,6-Trichlor...	0.385	0.380	0.394	0.365	0.408	0.389	0.371	0.385	3.71
44)		2,4,5-Trichlor...	0.407	0.403	0.421	0.391	0.416	0.407	0.388	0.405	2.95
45)	S	2-Fluorobiphenyl	3.480	3.272	3.184	2.861	2.999	2.816	2.702	3.045	9.15
46)		1,1'-Biphenyl	1.701	1.616	1.637	1.505	1.609	1.525	1.466	1.580	5.27
47)		2-Chloronaphth...	1.300	1.202	1.208	1.129	1.209	1.145	1.106	1.186	5.50
48)		2-Nitroaniline	0.321	0.329	0.337	0.324	0.358	0.337	0.320	0.332	3.93
49)		Acenaphthylene	2.110	2.006	2.011	1.861	1.995	1.891	1.787	1.952	5.64
50)		Dimethylphthalate	1.372	1.334	1.330	1.228	1.335	1.277	1.186	1.295	5.17
51)		2,6-Dinitrotol...	0.297	0.279	0.290	0.277	0.294	0.284	0.268	0.284	3.57
52)	C	Acenaphthene	1.247	1.199	1.241	1.142	1.228	1.172	1.107	1.191	4.44
53)		3-Nitroaniline	0.311	0.311	0.316	0.302	0.338	0.320	0.292	0.313	4.52
54)	P	2,4-Dinitrophenol		0.095	0.129	0.142	0.173	0.163	0.152	0.142	19.61
55)		Dibenzofuran	1.844	1.772	1.763	1.626	1.752	1.660	1.537	1.708	6.13
56)	P	4-Nitrophenol		0.189	0.218	0.208	0.238	0.229	0.203	0.214	8.25
57)		2,4-Dinitrotol...	0.373	0.378	0.397	0.367	0.407	0.383	0.338	0.378	5.90
58)		Fluorene	1.464	1.412	1.395	1.260	1.362	1.260	1.183	1.334	7.58
59)		2,3,4,6-Tetrac...	0.327	0.327	0.339	0.312	0.345	0.331	0.304	0.326	4.43
60)		Diethylphthalate	1.328	1.302	1.319	1.211	1.318	1.266	1.141	1.269	5.50
61)		4-Chlorophenyl...	0.713	0.656	0.669	0.599	0.640	0.609	0.568	0.636	7.64
62)		4-Nitroaniline	0.279	0.276	0.297	0.272	0.316	0.300	0.264	0.286	6.48
63)		Azobenzene	1.215	1.149	1.167	1.081	1.176	1.122	1.032	1.134	5.47
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.099	0.119	0.119	0.134	0.130	0.125	0.121	10.04
66)	c	n-Nitrosodiphe...	0.736	0.686	0.710	0.670	0.717	0.671	0.662	0.693	4.07
67)		4-Bromophenyl-...	0.231	0.221	0.235	0.218	0.236	0.228	0.225	0.228	3.03
68)		Hexachlorobenzene	0.263	0.248	0.257	0.241	0.262	0.252	0.247	0.253	3.29
69)		Atrazine	0.176	0.172	0.180	0.174	0.195	0.183	0.174	0.179	4.48
70)	C	Pentachlorophenol		0.102	0.119	0.125	0.142	0.135	0.133	0.126	11.30
71)		Phenanthrene	1.183	1.113	1.115	1.031	1.122	1.028	0.992	1.083	6.24
72)		Anthracene	1.226	1.123	1.149	1.064	1.140	1.065	1.011	1.111	6.35
73)		Carbazole	1.040	0.986	0.999	0.900	1.002	0.920	0.866	0.959	6.67
74)		Di-n-butylphth...	0.997	1.006	1.045	0.946	1.073	0.989	0.936	0.999	4.92
75)	C	Fluoranthene	1.136	1.088	1.090	0.954	1.059	0.972	0.899	1.028	8.44
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine		0.745	0.860	0.773	0.824	0.719	0.587	0.751	12.71
78)		Pyrene	2.110	1.940	1.968	1.742	2.030	1.863	1.468	1.875	11.43
79)	S	Terphenyl-d14	3.383	3.111	3.066	2.655	3.070	2.772	2.208	2.895	13.30
80)		Butylbenzylpht...	0.478	0.470	0.538	0.547	0.613	0.597	0.563	0.544	10.01
81)		Benzo(a)anthra...	1.392	1.358	1.366	1.265	1.403	1.376	1.284	1.349	3.98
82)		3,3'-Dichlorob...		0.398	0.440	0.429	0.476	0.445	0.438	0.438	5.73
83)		Chrysene	1.243	1.191	1.208	1.164	1.295	1.177	1.150	1.204	4.17
84)		Bis(2-ethylhex...	0.650	0.675	0.767	0.803	0.861	0.843	0.878	0.782	11.52
85)	c	Di-n-octyl pht...		1.207	1.352	1.463	1.610	1.569	1.651	1.475	11.54

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF061925.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.528	1.488	1.545	1.474	1.648	1.539	1.442	1.523	4.38
88)		Benzo(b)fluora...	1.164	1.220	1.226	1.072	1.152	1.197	1.070	1.157	5.61
89)		Benzo(k)fluora...	1.206	1.004	1.035	1.037	1.193	1.038	1.068	1.083	7.55
90)	C	Benzo(a)pyrene	1.142	1.065	1.124	1.069	1.201	1.141	1.084	1.118	4.37
91)		Dibenzo(a,h)an...	1.249	1.214	1.293	1.180	1.337	1.240	1.152	1.238	5.13
92)		Benzo(g,h,i)pe...	1.239	1.198	1.266	1.188	1.332	1.255	1.161	1.234	4.66

(#) = Out of Range

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG No.: Q2484

Instrument ID: BNA_F Calibration Date/Time: 07/02/2025 11:41

Lab File ID: BF142964.D Init. Calib. Date(s): 06/19/2025 06/19/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 17:07 20:40

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.201	1.175		-2.2	
Benzaldehyde	0.841	0.869		3.3	
Phenol-d6	1.417	1.364		-3.7	
Phenol	1.575	1.528		-3.0	20.0
bis(2-Chloroethyl)ether	1.126	1.072		-4.8	
2-Chlorophenol	1.296	1.252		-3.4	
2-Methylphenol	0.982	0.951		-3.2	
2,2-oxybis(1-Chloropropane)	1.809	1.643		-9.2	
Acetophenone	0.441	0.428		-2.9	
3+4-Methylphenols	1.224	1.220		-0.3	
n-Nitroso-di-n-propylamine	0.824	0.806	0.050	-2.2	
Nitrobenzene-d5	0.365	0.381		4.4	
Hexachloroethane	0.511	0.505		-1.2	
Nitrobenzene	0.330	0.320		-3.0	
Isophorone	0.585	0.565		-3.4	
2-Nitrophenol	0.180	0.179		-0.6	20.0
2,4-Dimethylphenol	0.311	0.301		-3.2	
bis(2-Chloroethoxy)methane	0.372	0.360		-3.2	
2,4-Dichlorophenol	0.282	0.275		-2.5	20.0
Naphthalene	0.979	0.947		-3.3	
4-Chloroaniline	0.398	0.390		-2.0	
Hexachlorobutadiene	0.190	0.186		-2.1	20.0
Caprolactam	0.075	0.075		0.0	
4-Chloro-3-methylphenol	0.281	0.275		-2.1	20.0
2-Methylnaphthalene	0.607	0.601		-1.0	
Hexachlorocyclopentadiene	0.335	0.265	0.050	-20.9	
2,4,6-Trichlorophenol	0.385	0.371		-3.6	20.0
2-Fluorobiphenyl	1.522	1.598		5.0	
2,4,5-Trichlorophenol	0.405	0.391		-3.5	
1,1-Biphenyl	1.580	1.544		-2.3	
2-Chloronaphthalene	1.186	1.140		-3.9	
2-Nitroaniline	0.332	0.326		-1.8	
Dimethylphthalate	1.295	1.269		-2.0	
Acenaphthylene	1.952	1.901		-2.6	
2,6-Dinitrotoluene	0.284	0.284		0.0	
3-Nitroaniline	0.313	0.313		0.0	
Acenaphthene	1.191	1.162		-2.4	20.0
2,4-Dinitrophenol	0.142	0.122	0.050	-14.1	
4-Nitrophenol	0.214	0.246	0.050	15.0	

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG No.: Q2484

Instrument ID: BNA_F Calibration Date/Time: 07/02/2025 11:41

Lab File ID: BF142964.D Init. Calib. Date(s): 06/19/2025 06/19/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 17:07 20:40

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.708	1.651		-3.3	
2,4-Dinitrotoluene	0.378	0.373		-1.3	
Diethylphthalate	1.269	1.281		0.9	
4-Chlorophenyl-phenylether	0.636	0.631		-0.8	
Fluorene	1.334	1.313		-1.6	
4-Nitroaniline	0.286	0.291		1.7	
4,6-Dinitro-2-methylphenol	0.121	0.113		-6.6	
n-Nitrosodiphenylamine	0.693	0.673		-2.9	20.0
2,4,6-Tribromophenol	0.206	0.203		-1.5	
4-Bromophenyl-phenylether	0.228	0.223		-2.2	
Hexachlorobenzene	0.253	0.240		-5.1	
Atrazine	0.179	0.188		5.0	
Pentachlorophenol	0.126	0.112		-11.1	20.0
Phenanthrene	1.083	1.038		-4.2	
Anthracene	1.111	1.071		-3.6	
Carbazole	0.959	0.921		-4.0	
Di-n-butylphthalate	0.999	1.051		5.2	
Fluoranthene	1.028	0.992		-3.5	20.0
Pyrene	1.875	1.887		0.6	
Terphenyl-d14	1.447	1.366		-5.6	
Butylbenzylphthalate	0.544	0.594		9.2	
3,3-Dichlorobenzidine	0.438	0.424		-3.2	
Benzo(a)anthracene	1.349	1.348		-0.1	
Chrysene	1.204	1.123		-6.7	
Bis(2-ethylhexyl)phthalate	0.782	0.847		8.3	
Di-n-octyl phthalate	1.475	1.461		-0.9	20.0
Benzo(b)fluoranthene	1.157	1.268		9.6	
Benzo(k)fluoranthene	1.083	1.006		-7.1	
Benzo(a)pyrene	1.118	1.116		-0.2	20.0
Indeno(1,2,3-cd)pyrene	1.523	1.408		-7.6	
Dibenzo(a,h)anthracene	1.238	1.141		-7.8	
Benzo(g,h,i)perylene	1.234	1.137		-7.9	
1,2,4,5-Tetrachlorobenzene	0.590	0.588		-0.3	
1,4-Dioxane	0.480	0.432		-10.0	20.0
2,3,4,6-Tetrachlorophenol	0.326	0.315		-3.4	

All other compounds must meet a minimum RRF of 0.010.

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG No.: Q2484

Instrument ID: BNA_F Calibration Date/Time: 07/03/2025 09:55

Lab File ID: BF142987.D Init. Calib. Date(s): 06/19/2025 06/19/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 17:07 20:40

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.201	1.155		-3.8	
Benzaldehyde	0.841	0.872		3.7	
Phenol-d6	1.417	1.350		-4.7	
Phenol	1.575	1.488		-5.5	20.0
bis(2-Chloroethyl)ether	1.126	1.068		-5.2	
2-Chlorophenol	1.296	1.258		-2.9	
2-Methylphenol	0.982	0.942		-4.1	
2,2-oxybis(1-Chloropropane)	1.809	1.607		-11.2	
Acetophenone	0.441	0.435		-1.4	
3+4-Methylphenols	1.224	1.205		-1.6	
n-Nitroso-di-n-propylamine	0.824	0.783	0.050	-5.0	
Nitrobenzene-d5	0.365	0.383		4.9	
Hexachloroethane	0.511	0.494		-3.3	
Nitrobenzene	0.330	0.319		-3.3	
Isophorone	0.585	0.556		-5.0	
2-Nitrophenol	0.180	0.181		0.6	20.0
2,4-Dimethylphenol	0.311	0.288		-7.4	
bis(2-Chloroethoxy)methane	0.372	0.360		-3.2	
2,4-Dichlorophenol	0.282	0.274		-2.8	20.0
Naphthalene	0.979	0.960		-1.9	
4-Chloroaniline	0.398	0.386		-3.0	
Hexachlorobutadiene	0.190	0.191		0.5	20.0
Caprolactam	0.075	0.071		-5.3	
4-Chloro-3-methylphenol	0.281	0.270		-3.9	20.0
2-Methylnaphthalene	0.607	0.585		-3.6	
Hexachlorocyclopentadiene	0.335	0.268	0.050	-20.0	
2,4,6-Trichlorophenol	0.385	0.379		-1.6	20.0
2-Fluorobiphenyl	1.522	1.626		6.8	
2,4,5-Trichlorophenol	0.405	0.404		-0.2	
1,1-Biphenyl	1.580	1.566		-0.9	
2-Chloronaphthalene	1.186	1.170		-1.3	
2-Nitroaniline	0.332	0.323		-2.7	
Dimethylphthalate	1.295	1.278		-1.3	
Acenaphthylene	1.952	1.899		-2.7	
2,6-Dinitrotoluene	0.284	0.278		-2.1	
3-Nitroaniline	0.313	0.303		-3.2	
Acenaphthene	1.191	1.172		-1.6	20.0
2,4-Dinitrophenol	0.142	0.131	0.050	-7.7	
4-Nitrophenol	0.214	0.226	0.050	5.6	

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG No.: Q2484

Instrument ID: BNA_F Calibration Date/Time: 07/03/2025 09:55

Lab File ID: BF142987.D Init. Calib. Date(s): 06/19/2025 06/19/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 17:07 20:40

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.708	1.633		-4.4	
2,4-Dinitrotoluene	0.378	0.365		-3.4	
Diethylphthalate	1.269	1.256		-1.0	
4-Chlorophenyl-phenylether	0.636	0.627		-1.4	
Fluorene	1.334	1.318		-1.2	
4-Nitroaniline	0.286	0.271		-5.2	
4,6-Dinitro-2-methylphenol	0.121	0.117		-3.3	
n-Nitrosodiphenylamine	0.693	0.695		0.3	20.0
2,4,6-Tribromophenol	0.206	0.200		-2.9	
4-Bromophenyl-phenylether	0.228	0.231		1.3	
Hexachlorobenzene	0.253	0.247		-2.4	
Atrazine	0.179	0.189		5.6	
Pentachlorophenol	0.126	0.112		-11.1	20.0
Phenanthrene	1.083	1.056		-2.5	
Anthracene	1.111	1.095		-1.4	
Carbazole	0.959	0.918		-4.3	
Di-n-butylphthalate	0.999	1.042		4.3	
Fluoranthene	1.028	0.963		-6.3	20.0
Pyrene	1.875	1.861		-0.7	
Terphenyl-d14	1.447	1.388		-4.1	
Butylbenzylphthalate	0.544	0.616		13.2	
3,3-Dichlorobenzidine	0.438	0.467		6.6	
Benzo(a)anthracene	1.349	1.360		0.8	
Chrysene	1.204	1.153		-4.2	
Bis(2-ethylhexyl)phthalate	0.782	0.921		17.8	
Di-n-octyl phthalate	1.475	1.699		15.2	20.0
Benzo(b)fluoranthene	1.157	1.162		0.4	
Benzo(k)fluoranthene	1.083	1.015		-6.3	
Benzo(a)pyrene	1.118	1.091		-2.4	20.0
Indeno(1,2,3-cd)pyrene	1.523	1.412		-7.3	
Dibenzo(a,h)anthracene	1.238	1.144		-7.6	
Benzo(g,h,i)perylene	1.234	1.104		-10.5	
1,2,4,5-Tetrachlorobenzene	0.590	0.594		0.7	
1,4-Dioxane	0.480	0.430		-10.4	20.0
2,3,4,6-Tetrachlorophenol	0.326	0.310		-4.9	

All other compounds must meet a minimum RRF of 0.010.

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG No.: Q2484

Instrument ID: BNA_F Calibration Date/Time: 07/07/2025 12:12

Lab File ID: BF143003.D Init. Calib. Date(s): 06/19/2025 06/19/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 17:07 20:40

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.201	1.159		-3.5	
Benzaldehyde	0.841	0.897		6.7	
Phenol-d6	1.417	1.363		-3.8	
Phenol	1.575	1.512		-4.0	20.0
bis(2-Chloroethyl)ether	1.126	1.086		-3.6	
2-Chlorophenol	1.296	1.244		-4.0	
2-Methylphenol	0.982	0.979		-0.3	
2,2-oxybis(1-Chloropropane)	1.809	1.645		-9.1	
Acetophenone	0.441	0.434		-1.6	
3+4-Methylphenols	1.224	1.224		0.0	
n-Nitroso-di-n-propylamine	0.824	0.811	0.050	-1.6	
Nitrobenzene-d5	0.365	0.385		5.5	
Hexachloroethane	0.511	0.506		-1.0	
Nitrobenzene	0.330	0.319		-3.3	
Isophorone	0.585	0.566		-3.2	
2-Nitrophenol	0.180	0.184		2.2	20.0
2,4-Dimethylphenol	0.311	0.300		-3.5	
bis(2-Chloroethoxy)methane	0.372	0.368		-1.1	
2,4-Dichlorophenol	0.282	0.278		-1.4	20.0
Naphthalene	0.979	0.963		-1.6	
4-Chloroaniline	0.398	0.370		-7.0	
Hexachlorobutadiene	0.190	0.191		0.5	20.0
Caprolactam	0.075	0.072		-4.0	
4-Chloro-3-methylphenol	0.281	0.276		-1.8	20.0
2-Methylnaphthalene	0.607	0.593		-2.3	
Hexachlorocyclopentadiene	0.335	0.343	0.050	2.4	
2,4,6-Trichlorophenol	0.385	0.364		-5.5	20.0
2-Fluorobiphenyl	1.522	1.599		5.1	
2,4,5-Trichlorophenol	0.405	0.378		-6.7	
1,1-Biphenyl	1.580	1.546		-2.2	
2-Chloronaphthalene	1.186	1.160		-2.2	
2-Nitroaniline	0.332	0.322		-3.0	
Dimethylphthalate	1.295	1.251		-3.4	
Acenaphthylene	1.952	1.905		-2.4	
2,6-Dinitrotoluene	0.284	0.276		-2.8	
3-Nitroaniline	0.313	0.297		-5.1	
Acenaphthene	1.191	1.193		0.2	20.0
2,4-Dinitrophenol	0.142	0.169	0.050	19.0	
4-Nitrophenol	0.214	0.207	0.050	-3.3	

Form VII SV-1

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG No.: Q2484

Instrument ID: BNA_F Calibration Date/Time: 07/07/2025 12:12

Lab File ID: BF143003.D Init. Calib. Date(s): 06/19/2025 06/19/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 17:07 20:40

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.708	1.645		-3.7	
2,4-Dinitrotoluene	0.378	0.360		-4.8	
Diethylphthalate	1.269	1.220		-3.9	
4-Chlorophenyl-phenylether	0.636	0.616		-3.1	
Fluorene	1.334	1.274		-4.5	
4-Nitroaniline	0.286	0.265		-7.3	
4,6-Dinitro-2-methylphenol	0.121	0.121		0.0	
n-Nitrosodiphenylamine	0.693	0.704		1.6	20.0
2,4,6-Tribromophenol	0.206	0.187		-9.2	
4-Bromophenyl-phenylether	0.228	0.232		1.8	
Hexachlorobenzene	0.253	0.255		0.8	
Atrazine	0.179	0.184		2.8	
Pentachlorophenol	0.126	0.143		13.5	20.0
Phenanthrene	1.083	1.050		-3.0	
Anthracene	1.111	1.081		-2.7	
Carbazole	0.959	0.888		-7.4	
Di-n-butylphthalate	0.999	1.010		1.1	
Fluoranthene	1.028	0.933		-9.2	20.0
Pyrene	1.875	1.782		-5.0	
Terphenyl-d14	1.447	1.318		-8.9	
Butylbenzylphthalate	0.544	0.602		10.7	
3,3-Dichlorobenzidine	0.438	0.480		9.6	
Benzo(a)anthracene	1.349	1.319		-2.2	
Chrysene	1.204	1.216		1.0	
Bis(2-ethylhexyl)phthalate	0.782	0.919		17.5	
Di-n-octyl phthalate	1.475	1.705		15.6	20.0
Benzo(b)fluoranthene	1.157	1.189		2.8	
Benzo(k)fluoranthene	1.083	1.000		-7.7	
Benzo(a)pyrene	1.118	1.099		-1.7	20.0
Indeno(1,2,3-cd)pyrene	1.523	1.334		-12.4	
Dibenzo(a,h)anthracene	1.238	1.100		-11.1	
Benzo(g,h,i)perylene	1.234	1.044		-15.4	
1,2,4,5-Tetrachlorobenzene	0.590	0.592		0.3	
1,4-Dioxane	0.480	0.430		-10.4	20.0
2,3,4,6-Tetrachlorophenol	0.326	0.293		-10.1	

All other compounds must meet a minimum RRF of 0.010.

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG No.: Q2484

Instrument ID: BNA_F Calibration Date/Time: 07/08/2025 10:54

Lab File ID: BF143025.D Init. Calib. Date(s): 06/19/2025 06/19/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 17:07 20:40

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.201	1.183		-1.5	
Benzaldehyde	0.841	0.903		7.4	
Phenol-d6	1.417	1.384		-2.3	
Phenol	1.575	1.550		-1.6	20.0
bis(2-Chloroethyl)ether	1.126	1.102		-2.1	
2-Chlorophenol	1.296	1.276		-1.5	
2-Methylphenol	0.982	0.973		-0.9	
2,2-oxybis(1-Chloropropane)	1.809	1.645		-9.1	
Acetophenone	0.441	0.431		-2.3	
3+4-Methylphenols	1.224	1.225		0.1	
n-Nitroso-di-n-propylamine	0.824	0.805	0.050	-2.3	
Nitrobenzene-d5	0.365	0.385		5.5	
Hexachloroethane	0.511	0.498		-2.5	
Nitrobenzene	0.330	0.315		-4.5	
Isophorone	0.585	0.566		-3.2	
2-Nitrophenol	0.180	0.181		0.6	20.0
2,4-Dimethylphenol	0.311	0.301		-3.2	
bis(2-Chloroethoxy)methane	0.372	0.361		-3.0	
2,4-Dichlorophenol	0.282	0.275		-2.5	20.0
Naphthalene	0.979	0.952		-2.8	
4-Chloroaniline	0.398	0.391		-1.8	
Hexachlorobutadiene	0.190	0.185		-2.6	20.0
Caprolactam	0.075	0.078		4.0	
4-Chloro-3-methylphenol	0.281	0.276		-1.8	20.0
2-Methylnaphthalene	0.607	0.594		-2.1	
Hexachlorocyclopentadiene	0.335	0.341	0.050	1.8	
2,4,6-Trichlorophenol	0.385	0.367		-4.7	20.0
2-Fluorobiphenyl	1.522	1.552		2.0	
2,4,5-Trichlorophenol	0.405	0.383		-5.4	
1,1-Biphenyl	1.580	1.507		-4.6	
2-Chloronaphthalene	1.186	1.125		-5.1	
2-Nitroaniline	0.332	0.326		-1.8	
Dimethylphthalate	1.295	1.287		-0.6	
Acenaphthylene	1.952	1.854		-5.0	
2,6-Dinitrotoluene	0.284	0.279		-1.8	
3-Nitroaniline	0.313	0.304		-2.9	
Acenaphthene	1.191	1.180		-0.9	20.0
2,4-Dinitrophenol	0.142	0.188	0.050	32.4	
4-Nitrophenol	0.214	0.259	0.050	21.0	

Form VII SV-1

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG No.: Q2484

Instrument ID: BNA_F Calibration Date/Time: 07/08/2025 10:54

Lab File ID: BF143025.D Init. Calib. Date(s): 06/19/2025 06/19/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 17:07 20:40

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.708	1.634		-4.3	
2,4-Dinitrotoluene	0.378	0.376		-0.5	
Diethylphthalate	1.269	1.241		-2.2	
4-Chlorophenyl-phenylether	0.636	0.623		-2.0	
Fluorene	1.334	1.302		-2.4	
4-Nitroaniline	0.286	0.282		-1.4	
4,6-Dinitro-2-methylphenol	0.121	0.120		-0.8	
n-Nitrosodiphenylamine	0.693	0.683		-1.4	20.0
2,4,6-Tribromophenol	0.206	0.200		-2.9	
4-Bromophenyl-phenylether	0.228	0.230		0.9	
Hexachlorobenzene	0.253	0.251		-0.8	
Atrazine	0.179	0.189		5.6	
Pentachlorophenol	0.126	0.185		46.8	20.0
Phenanthrene	1.083	1.051		-3.0	
Anthracene	1.111	1.089		-2.0	
Carbazole	0.959	0.908		-5.3	
Di-n-butylphthalate	0.999	1.022		2.3	
Fluoranthene	1.028	0.959		-6.7	20.0
Pyrene	1.875	2.136		13.9	
Terphenyl-d14	1.447	1.536		6.2	
Butylbenzylphthalate	0.544	0.573		5.3	
3,3-Dichlorobenzidine	0.438	0.444		1.4	
Benzo(a)anthracene	1.349	1.310		-2.9	
Chrysene	1.204	1.161		-3.6	
Bis(2-ethylhexyl)phthalate	0.782	0.775		-0.9	
Di-n-octyl phthalate	1.475	1.479		0.3	20.0
Benzo(b)fluoranthene	1.157	1.133		-2.1	
Benzo(k)fluoranthene	1.083	0.990		-8.6	
Benzo(a)pyrene	1.118	1.090		-2.5	20.0
Indeno(1,2,3-cd)pyrene	1.523	1.509		-0.9	
Dibenzo(a,h)anthracene	1.238	1.206		-2.6	
Benzo(g,h,i)perylene	1.234	1.198		-2.9	
1,2,4,5-Tetrachlorobenzene	0.590	0.574		-2.7	
1,4-Dioxane	0.480	0.434		-9.6	20.0
2,3,4,6-Tetrachlorophenol	0.326	0.307		-5.8	

All other compounds must meet a minimum RRF of 0.010.

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LAB CHRONICLE

OrderID:	Q2484	**OrderDate:**	7/2/2025 9:23:00 AM
Client:	CDM Smith	**Project:**	South River WM Replacement
Contact:	Marcie Ann Encinas	**Location:**	--Select--,A12,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2484-01	**TP-58**	**SOIL**			**07/01/25**			**07/01/25**
			Diesel Range Organics	8015D		07/02/25	07/03/25	
			Gasoline Range Organics	8015D			07/03/25	
			PCB	8082A		07/02/25	07/02/25	
			Pesticide-TCL	8081B		07/02/25	07/02/25	
Q2484-02	**TP-57**	**SOIL**			**07/01/25**			**07/01/25**
			Diesel Range Organics	8015D		07/02/25	07/02/25	
			Gasoline Range Organics	8015D			07/03/25	
			PCB	8082A		07/02/25	07/02/25	
			Pesticide-TCL	8081B		07/02/25	07/02/25	
Q2484-03	**TP-64**	**SOIL**			**07/01/25**			**07/01/25**
			Diesel Range Organics	8015D		07/02/25	07/03/25	
			Gasoline Range Organics	8015D			07/03/25	
			PCB	8082A		07/02/25	07/02/25	
			Pesticide-TCL	8081B		07/02/25	07/02/25	
Q2484-04	**TP-107**	**SOIL**			**07/01/25**			**07/01/25**
			Diesel Range Organics	8015D		07/02/25	07/02/25	
			Gasoline Range Organics	8015D			07/08/25	
			PCB	8082A		07/02/25	07/02/25	
			Pesticide-TCL	8081B		07/02/25	07/02/25	
Q2484-05	**TP-106**	**SOIL**			**07/01/25**			**07/01/25**
			Diesel Range Organics	8015D		07/02/25	07/02/25	
			Gasoline Range Organics	8015D			07/03/25	
			PCB	8082A		07/02/25	07/02/25	
			Pesticide-TCL	8081B		07/02/25	07/02/25	
Q2484-06	**TP-104**	**SOIL**			**07/01/25**			**07/01/25**
			Diesel Range Organics	8015D		07/02/25	07/02/25	

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LAB CHRONICLE

Gasoline Range Organics	8015D		07/03/25
PCB	8082A	07/02/25	07/02/25
Pesticide-TCL	8081B	07/02/25	07/02/25

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Hit Summary Sheet
SW-846

SDG No.: Q2484 **Order ID:** Q2484

Client: CDM Smith **Project ID:** South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units

Client ID :

Total Concentration: **0.000**

SAMPLE DATA

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-58	SDG No.:	Q2484
Lab Sample ID:	Q2484-01	Matrix:	SOIL
Analytical Method:	8082A	% Solid:	86.2 Decanted:
Sample Wt/Vol:	30.01 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP073468.D	1	07/02/25 08:25	07/02/25 20:09	PB168692

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	4.60	U	4.60	19.7	ug/kg
11104-28-2	Aroclor-1221	4.70	U	4.70	19.7	ug/kg
11141-16-5	Aroclor-1232	4.30	U	4.30	19.7	ug/kg
53469-21-9	Aroclor-1242	4.70	U	4.70	19.7	ug/kg
12672-29-6	Aroclor-1248	6.90	U	6.90	19.7	ug/kg
11097-69-1	Aroclor-1254	3.70	U	3.70	19.7	ug/kg
37324-23-5	Aroclor-1262	5.80	U	5.80	19.7	ug/kg
11100-14-4	Aroclor-1268	4.20	U	4.20	19.7	ug/kg
11096-82-5	Aroclor-1260	3.70	U	3.70	19.7	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	16.9		32 - 144	84%	SPK: 20
2051-24-3	Decachlorobiphenyl	11.5		32 - 175	57%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-57	SDG No.:	Q2484
Lab Sample ID:	Q2484-02	Matrix:	SOIL
Analytical Method:	8082A	% Solid:	86 Decanted:
Sample Wt/Vol:	30.04 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP073469.D	1	07/02/25 08:25	07/02/25 20:26	PB168692

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	4.60	U	4.60	19.7	ug/kg
11104-28-2	Aroclor-1221	4.70	U	4.70	19.7	ug/kg
11141-16-5	Aroclor-1232	4.30	U	4.30	19.7	ug/kg
53469-21-9	Aroclor-1242	4.70	U	4.70	19.7	ug/kg
12672-29-6	Aroclor-1248	6.90	U	6.90	19.7	ug/kg
11097-69-1	Aroclor-1254	3.70	U	3.70	19.7	ug/kg
37324-23-5	Aroclor-1262	5.80	U	5.80	19.7	ug/kg
11100-14-4	Aroclor-1268	4.20	U	4.20	19.7	ug/kg
11096-82-5	Aroclor-1260	3.80	U	3.80	19.7	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	18.9		32 - 144	94%	SPK: 20
2051-24-3	Decachlorobiphenyl	11.4		32 - 175	57%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-64	SDG No.:	Q2484
Lab Sample ID:	Q2484-03	Matrix:	SOIL
Analytical Method:	8082A	% Solid:	88.4 Decanted:
Sample Wt/Vol:	30.07 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP073470.D	1	07/02/25 08:25	07/02/25 20:42	PB168692

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	4.50	U	4.50	19.2	ug/kg
11104-28-2	Aroclor-1221	4.50	U	4.50	19.2	ug/kg
11141-16-5	Aroclor-1232	4.20	U	4.20	19.2	ug/kg
53469-21-9	Aroclor-1242	4.50	U	4.50	19.2	ug/kg
12672-29-6	Aroclor-1248	6.70	U	6.70	19.2	ug/kg
11097-69-1	Aroclor-1254	3.60	U	3.60	19.2	ug/kg
37324-23-5	Aroclor-1262	5.70	U	5.70	19.2	ug/kg
11100-14-4	Aroclor-1268	4.10	U	4.10	19.2	ug/kg
11096-82-5	Aroclor-1260	3.60	U	3.60	19.2	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	18.2		32 - 144	91%	SPK: 20
2051-24-3	Decachlorobiphenyl	13.3		32 - 175	66%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-107	SDG No.:	Q2484
Lab Sample ID:	Q2484-04	Matrix:	SOIL
Analytical Method:	8082A	% Solid:	83.8 Decanted:
Sample Wt/Vol:	30.02 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP073471.D	1	07/02/25 08:25	07/02/25 20:58	PB168692

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	4.70	U	4.70	20.3	ug/kg
11104-28-2	Aroclor-1221	4.80	U	4.80	20.3	ug/kg
11141-16-5	Aroclor-1232	4.40	U	4.40	20.3	ug/kg
53469-21-9	Aroclor-1242	4.80	U	4.80	20.3	ug/kg
12672-29-6	Aroclor-1248	7.10	U	7.10	20.3	ug/kg
11097-69-1	Aroclor-1254	3.80	U	3.80	20.3	ug/kg
37324-23-5	Aroclor-1262	6.00	U	6.00	20.3	ug/kg
11100-14-4	Aroclor-1268	4.30	U	4.30	20.3	ug/kg
11096-82-5	Aroclor-1260	3.90	U	3.90	20.3	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	15.7		32 - 144	78%	SPK: 20
2051-24-3	Decachlorobiphenyl	13.5		32 - 175	67%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-106	SDG No.:	Q2484
Lab Sample ID:	Q2484-05	Matrix:	SOIL
Analytical Method:	8082A	% Solid:	87.9 Decanted:
Sample Wt/Vol:	30.09 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP073472.D	1	07/02/25 08:25	07/02/25 21:15	PB168692

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	4.50	U	4.50	19.3	ug/kg
11104-28-2	Aroclor-1221	4.60	U	4.60	19.3	ug/kg
11141-16-5	Aroclor-1232	4.20	U	4.20	19.3	ug/kg
53469-21-9	Aroclor-1242	4.50	U	4.50	19.3	ug/kg
12672-29-6	Aroclor-1248	6.70	U	6.70	19.3	ug/kg
11097-69-1	Aroclor-1254	3.60	U	3.60	19.3	ug/kg
37324-23-5	Aroclor-1262	5.70	U	5.70	19.3	ug/kg
11100-14-4	Aroclor-1268	4.10	U	4.10	19.3	ug/kg
11096-82-5	Aroclor-1260	3.70	U	3.70	19.3	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	19.9		32 - 144	99%	SPK: 20
2051-24-3	Decachlorobiphenyl	14.8		32 - 175	74%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-104	SDG No.:	Q2484
Lab Sample ID:	Q2484-06	Matrix:	SOIL
Analytical Method:	8082A	% Solid:	87.3 Decanted:
Sample Wt/Vol:	30.06 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP073473.D	1	07/02/25 08:25	07/02/25 21:31	PB168692

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	4.50	U	4.50	19.4	ug/kg
11104-28-2	Aroclor-1221	4.60	U	4.60	19.4	ug/kg
11141-16-5	Aroclor-1232	4.30	U	4.30	19.4	ug/kg
53469-21-9	Aroclor-1242	4.60	U	4.60	19.4	ug/kg
12672-29-6	Aroclor-1248	6.80	U	6.80	19.4	ug/kg
11097-69-1	Aroclor-1254	3.70	U	3.70	19.4	ug/kg
37324-23-5	Aroclor-1262	5.70	U	5.70	19.4	ug/kg
11100-14-4	Aroclor-1268	4.10	U	4.10	19.4	ug/kg
11096-82-5	Aroclor-1260	3.70	U	3.70	19.4	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	18.2		32 - 144	91%	SPK: 20
2051-24-3	Decachlorobiphenyl	14.0		32 - 175	70%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

QC SUMMARY

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Surrogate Summary

SDG No.: Q2484

Client: CDM Smith

Analytical Method: 8082A

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Recovery(%)	Qual	Limits(%) Low	Limits(%) High
I.BLK-PP073412.D	PIBLK-PP073412.D	Tetrachloro-m-xyl	1	20	16.6	83		60	140
		Decachlorobiphen	1	20	15.7	78		60	140
		Tetrachloro-m-xyl	2	20	16.5	83		60	140
		Decachlorobiphen	2	20	16.5	82		60	140
I.BLK-PP073452.D	PIBLK-PP073452.D	Tetrachloro-m-xyl	1	20	19.5	98		60	140
		Decachlorobiphen	1	20	19.2	96		60	140
		Tetrachloro-m-xyl	2	20	16.9	85		60	140
		Decachlorobiphen	2	20	19.0	95		60	140
PB168692BL	PB168692BL	Tetrachloro-m-xyl	1	20	21.8	109		32	144
		Decachlorobiphen	1	20	21.3	106		32	175
		Tetrachloro-m-xyl	2	20	16.5	82		32	144
		Decachlorobiphen	2	20	20.7	103		32	175
PB168692BS	PB168692BS	Tetrachloro-m-xyl	1	20	23.0	115		32	144
		Decachlorobiphen	1	20	22.2	111		32	175
		Tetrachloro-m-xyl	2	20	18.5	93		32	144
		Decachlorobiphen	2	20	22.0	110		32	175
Q2473-04MS	PIT#4MS	Tetrachloro-m-xyl	1	20	20.6	103		32	144
		Decachlorobiphen	1	20	18.3	92		32	175
		Tetrachloro-m-xyl	2	20	21.1	106		32	144
		Decachlorobiphen	2	20	20.1	101		32	175
Q2473-04MSD	PIT#4MSD	Tetrachloro-m-xyl	1	20	19.2	96		32	144
		Decachlorobiphen	1	20	16.4	82		32	175
		Tetrachloro-m-xyl	2	20	19.6	98		32	144
		Decachlorobiphen	2	20	18.9	94		32	175
I.BLK-PP073467.D	PIBLK-PP073467.D	Tetrachloro-m-xyl	1	20	16.7	84		60	140
		Decachlorobiphen	1	20	15.8	79		60	140
		Tetrachloro-m-xyl	2	20	18.1	90		60	140
		Decachlorobiphen	2	20	18.3	91		60	140
Q2484-01	TP-58	Tetrachloro-m-xyl	1	20	13.1	66		32	144
		Decachlorobiphen	1	20	9.79	49		32	175
		Tetrachloro-m-xyl	2	20	16.9	84		32	144
		Decachlorobiphen	2	20	11.5	57		32	175
Q2484-02	TP-57	Tetrachloro-m-xyl	1	20	17.3	86		32	144
		Decachlorobiphen	1	20	8.74	44		32	175
		Tetrachloro-m-xyl	2	20	18.9	94		32	144
		Decachlorobiphen	2	20	11.4	57		32	175
Q2484-03	TP-64	Tetrachloro-m-xyl	1	20	16.9	85		32	144
		Decachlorobiphen	1	20	11.3	56		32	175
		Tetrachloro-m-xyl	2	20	18.2	91		32	144
		Decachlorobiphen	2	20	13.3	66		32	175
Q2484-04	TP-107	Tetrachloro-m-xyl	1	20	14.6	73		32	144

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Surrogate Summary

SDG No.: Q2484

Client: CDM Smith

Analytical Method: 8082A

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Recovery(%)	Qual	Limits(%) Low	Limits(%) High
Q2484-04	TP-107	Decachlorobiphen	1	20	10.8	54		32	175
		Tetrachloro-m-xyl	2	20	15.7	78		32	144
		Decachlorobiphen	2	20	13.5	67		32	175
Q2484-05	TP-106	Tetrachloro-m-xyl	1	20	15.9	80		32	144
		Decachlorobiphen	1	20	11.7	58		32	175
		Tetrachloro-m-xyl	2	20	19.9	99		32	144
		Decachlorobiphen	2	20	14.8	74		32	175
Q2484-06	TP-104	Tetrachloro-m-xyl	1	20	15.4	77		32	144
		Decachlorobiphen	1	20	10.6	53		32	175
		Tetrachloro-m-xyl	2	20	18.2	91		32	144
		Decachlorobiphen	2	20	14.0	70		32	175
I.BLK-PP073482.D	PIBLK-PP073482.D	Tetrachloro-m-xyl	1	20	15.8	79		60	140
		Decachlorobiphen	1	20	14.4	72		60	140
		Tetrachloro-m-xyl	2	20	17.8	89		60	140
		Decachlorobiphen	2	20	18.7	93		60	140

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2484 **Analytical Method:** 8082A

Client: CDM Smith **DataFile :** PP073461.D

	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID:	**Q2473-04MS (Column 1)**	**Client Sample ID:**		**PIT#4MS**								
	AR1016	183.4	0	194	ug/kg	106				55	146	
	AR1260	183.4	0	158	ug/kg	86				54	119	
Lab Sample ID:	**Q2473-04MS (Column 2)**	**Client Sample ID:**		**PIT#4MS**								
	AR1016	183.4	0	184	ug/kg	100				55	146	
	AR1260	183.4	0	156	ug/kg	85				54	119	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2484 **Analytical Method:** 8082A

Client: CDM Smith **DataFile :** PP073462.D

	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Lab Sample ID:	**Q2473-04MSD (Column 1)**	**Client Sample ID:**		**PIT#4MSD**								
	AR1016	183.5	0	179	ug/kg	98		8		55	146	15
	AR1260	183.5	0	147	ug/kg	80		7		54	119	15
Lab Sample ID:	**Q2473-04MSD (Column 2)**	**Client Sample ID:**		**PIT#4MSD**								
	AR1016	183.5	0	176	ug/kg	96		4		55	146	15
	AR1260	183.5	0	149	ug/kg	81		5		54	119	15

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2484 **Analytical Method:** 8082A

Client: CDM Smith **Datafile :** PP073455.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB168692BS (Column 1)	AR1016	166.6	186	ug/kg	112				71	120	
	AR1260	166.6	173	ug/kg	104				65	130	
PB168692BS (Column 2)	AR1016	166.6	160	ug/kg	96				71	120	
	AR1260	166.6	157	ug/kg	94				65	130	

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4C

PESTICIDE METHOD BLANK SUMMARY

Client ID: PB168692BL

Lab Name: Alliance | Contract: CAMP02

Lab Code: ACE | SDG NO.: Q2484

Lab Sample ID: PB168692BL | Lab File ID: PP073454.D

Matrix: (soil/water) Solid | Extraction: (Type) SOXH

Sulfur Cleanup: (Y/N) N | Date Extracted: 07/02/2025

Date Analyzed (1): 07/02/2025 | Date Analyzed (2): 07/02/2025

Time Analyzed (1): 15:14 | Time Analyzed (2): 15:14

Instrument ID (1): ECD_P | Instrument ID (2): ECD_P

GC Column (1): ZB-MR1 ID: 0.32 (mm) | GC Column (2): ZB-MR2 ID: 0.32 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED 1	DATE ANALYZED 2
PB168692BS	PB168692BS	PP073455.D	07/02/2025	07/02/2025
PIT#4MS	Q2473-04MS	PP073461.D	07/02/2025	07/02/2025
PIT#4MSD	Q2473-04MSD	PP073462.D	07/02/2025	07/02/2025
TP-58	Q2484-01	PP073468.D	07/02/2025	07/02/2025
TP-57	Q2484-02	PP073469.D	07/02/2025	07/02/2025
TP-64	Q2484-03	PP073470.D	07/02/2025	07/02/2025
TP-107	Q2484-04	PP073471.D	07/02/2025	07/02/2025
TP-106	Q2484-05	PP073472.D	07/02/2025	07/02/2025
TP-104	Q2484-06	PP073473.D	07/02/2025	07/02/2025

COMMENTS:

CALIBRATION SUMMARY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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RETENTION TIMES OF INITIAL CALIBRATION

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2484

Instrument ID: ECD_P **Calibration Date(s):** 07/01/2025 07/01/2025

Calibration Times: 14:04 21:30

GC Column: ZB-MR1 ID: 0.32 (mm)

LAB FILE ID: RT 1000 = PP073413.D RT 750 = PP073414.D

RT 500 = PP073415.D RT 250 = PP073416.D RT 050 = PP073417.D

COMPOUND		RT 1000	RT 750	RT 500	RT 250	RT 050	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Aroclor-1016-1	(1)	5.65	5.64	5.64	5.64	5.64	5.64	5.54	5.74
Aroclor-1016-2	(2)	5.67	5.66	5.67	5.66	5.66	5.66	5.56	5.76
Aroclor-1016-3	(3)	5.73	5.72	5.73	5.72	5.73	5.73	5.63	5.83
Aroclor-1016-4	(4)	5.83	5.82	5.83	5.82	5.82	5.82	5.72	5.92
Aroclor-1016-5	(5)	6.12	6.11	6.12	6.11	6.12	6.12	6.02	6.22
Aroclor-1260-1	(1)	7.24	7.23	7.23	7.23	7.23	7.23	7.13	7.33
Aroclor-1260-2	(2)	7.49	7.48	7.49	7.48	7.49	7.49	7.39	7.59
Aroclor-1260-3	(3)	7.85	7.84	7.85	7.84	7.84	7.85	7.75	7.95
Aroclor-1260-4	(4)	8.07	8.07	8.07	8.07	8.07	8.07	7.97	8.17
Aroclor-1260-5	(5)	8.39	8.38	8.39	8.38	8.39	8.39	8.29	8.49
Decachlorobiphenyl		10.19	10.18	10.19	10.18	10.18	10.18	10.08	10.28
Tetrachloro-m-xylene		4.50	4.49	4.49	4.49	4.49	4.49	4.39	4.59
Aroclor-1242-1	(1)	5.64	5.64	5.65	5.64	5.64	5.64	5.54	5.74
Aroclor-1242-2	(2)	5.67	5.66	5.67	5.66	5.67	5.66	5.56	5.76
Aroclor-1242-3	(3)	5.73	5.72	5.73	5.72	5.73	5.73	5.63	5.83
Aroclor-1242-4	(4)	5.82	5.82	5.83	5.82	5.83	5.82	5.72	5.92
Aroclor-1242-5	(5)	6.55	6.55	6.56	6.55	6.55	6.55	6.45	6.65
Decachlorobiphenyl		10.19	10.18	10.19	10.18	10.19	10.18	10.08	10.28
Tetrachloro-m-xylene		4.49	4.49	4.49	4.49	4.49	4.49	4.39	4.59
Aroclor-1248-1	(1)	5.64	5.64	5.64	5.64	5.64	5.64	5.54	5.74
Aroclor-1248-2	(2)	5.91	5.91	5.91	5.92	5.91	5.91	5.81	6.01
Aroclor-1248-3	(3)	6.12	6.12	6.11	6.12	6.12	6.12	6.02	6.22
Aroclor-1248-4	(4)	6.51	6.51	6.51	6.52	6.51	6.51	6.41	6.61
Aroclor-1248-5	(5)	6.55	6.55	6.55	6.56	6.55	6.55	6.45	6.65
Decachlorobiphenyl		10.18	10.18	10.18	10.19	10.18	10.18	10.08	10.28
Tetrachloro-m-xylene		4.49	4.49	4.49	4.49	4.49	4.49	4.39	4.59
Aroclor-1254-1	(1)	6.49	6.49	6.49	6.49	6.49	6.49	6.39	6.59
Aroclor-1254-2	(2)	6.70	6.71	6.71	6.70	6.70	6.71	6.61	6.81
Aroclor-1254-3	(3)	7.07	7.07	7.07	7.07	7.07	7.07	6.97	7.17
Aroclor-1254-4	(4)	7.35	7.35	7.35	7.35	7.35	7.35	7.25	7.45
Aroclor-1254-5	(5)	7.77	7.77	7.77	7.77	7.77	7.77	7.67	7.87
Decachlorobiphenyl		10.18	10.18	10.18	10.18	10.18	10.18	10.08	10.28
Tetrachloro-m-xylene		4.49	4.49	4.49	4.49	4.49	4.49	4.39	4.59
Aroclor-1268-1	(1)	8.70	8.69	8.70	8.69	8.69	8.69	8.59	8.79
Aroclor-1268-2	(2)	8.79	8.79	8.79	8.79	8.79	8.79	8.69	8.89
Aroclor-1268-3	(3)	9.02	9.01	9.02	9.02	9.01	9.02	8.92	9.12
Aroclor-1268-4	(4)	9.44	9.43	9.44	9.43	9.43	9.43	9.33	9.53
Aroclor-1268-5	(5)	9.85	9.84	9.85	9.84	9.84	9.84	9.74	9.94

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RETENTION TIMES OF INITIAL CALIBRATION

Decachlorobiphenyl	10.18	10.18	10.18	10.18	10.18	10.18	10.08	10.28
Tetrachloro-m-xylene	4.49	4.49	4.49	4.49	4.49	4.49	4.39	4.59

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RETENTION TIMES OF INITIAL CALIBRATION

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2484

Instrument ID: ECD_P **Calibration Date(s):** 07/01/2025 07/01/2025

Calibration Times: 14:04 21:30

GC Column: ZB-MR2 ID: 0.32 (mm)

LAB FILE ID: RT 1000 = PP073413.D RT 750 = PP073414.D

RT 500 = PP073415.D RT 250 = PP073416.D RT 050 = PP073417.D

COMPOUND		RT 1000	RT 750	RT 500	RT 250	RT 050	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Aroclor-1016-1	(1)	4.87	4.86	4.86	4.86	4.86	4.86	4.76	4.96
Aroclor-1016-2	(2)	4.88	4.88	4.88	4.88	4.88	4.88	4.78	4.98
Aroclor-1016-3	(3)	5.06	5.06	5.06	5.06	5.06	5.06	4.96	5.16
Aroclor-1016-4	(4)	5.10	5.10	5.10	5.10	5.10	5.10	5.00	5.20
Aroclor-1016-5	(5)	5.32	5.32	5.31	5.31	5.31	5.31	5.21	5.41
Aroclor-1260-1	(1)	6.35	6.35	6.34	6.34	6.34	6.35	6.25	6.45
Aroclor-1260-2	(2)	6.53	6.53	6.53	6.53	6.53	6.53	6.43	6.63
Aroclor-1260-3	(3)	6.69	6.69	6.69	6.68	6.68	6.69	6.59	6.79
Aroclor-1260-4	(4)	7.16	7.16	7.15	7.15	7.15	7.15	7.05	7.25
Aroclor-1260-5	(5)	7.40	7.40	7.40	7.40	7.40	7.40	7.30	7.50
Decachlorobiphenyl		8.79	8.79	8.79	8.79	8.79	8.79	8.69	8.89
Tetrachloro-m-xylene		3.79	3.79	3.79	3.78	3.78	3.78	3.68	3.88
Aroclor-1242-1	(1)	4.87	4.87	4.87	4.86	4.87	4.87	4.77	4.97
Aroclor-1242-2	(2)	4.88	4.88	4.88	4.88	4.88	4.88	4.78	4.98
Aroclor-1242-3	(3)	5.06	5.06	5.06	5.06	5.06	5.06	4.96	5.16
Aroclor-1242-4	(4)	5.14	5.14	5.14	5.14	5.14	5.14	5.04	5.24
Aroclor-1242-5	(5)	5.67	5.66	5.67	5.66	5.67	5.67	5.57	5.77
Decachlorobiphenyl		8.79	8.79	8.79	8.79	8.79	8.79	8.69	8.89
Tetrachloro-m-xylene		3.79	3.79	3.79	3.78	3.78	3.79	3.69	3.89
Aroclor-1248-1	(1)	4.86	4.86	4.86	4.86	4.86	4.86	4.76	4.96
Aroclor-1248-2	(2)	5.10	5.10	5.10	5.10	5.10	5.10	5.00	5.20
Aroclor-1248-3	(3)	5.14	5.14	5.14	5.14	5.14	5.14	5.04	5.24
Aroclor-1248-4	(4)	5.31	5.31	5.31	5.31	5.31	5.31	5.21	5.41
Aroclor-1248-5	(5)	5.70	5.71	5.70	5.70	5.71	5.70	5.60	5.80
Decachlorobiphenyl		8.79	8.79	8.79	8.79	8.79	8.79	8.69	8.89
Tetrachloro-m-xylene		3.78	3.79	3.79	3.78	3.78	3.78	3.68	3.88
Aroclor-1254-1	(1)	5.66	5.66	5.66	5.66	5.66	5.66	5.56	5.76
Aroclor-1254-2	(2)	5.81	5.81	5.81	5.81	5.81	5.81	5.71	5.91
Aroclor-1254-3	(3)	6.21	6.21	6.21	6.21	6.21	6.21	6.11	6.31
Aroclor-1254-4	(4)	6.44	6.44	6.44	6.44	6.44	6.44	6.34	6.54
Aroclor-1254-5	(5)	6.86	6.86	6.86	6.86	6.86	6.86	6.76	6.96
Decachlorobiphenyl		8.79	8.79	8.79	8.79	8.79	8.79	8.69	8.89
Tetrachloro-m-xylene		3.78	3.78	3.78	3.78	3.78	3.78	3.68	3.88
Aroclor-1268-1	(1)	7.68	7.68	7.68	7.67	7.68	7.68	7.58	7.78
Aroclor-1268-2	(2)	7.74	7.74	7.74	7.74	7.74	7.74	7.64	7.84
Aroclor-1268-3	(3)	7.94	7.94	7.94	7.94	7.94	7.94	7.84	8.04
Aroclor-1268-4	(4)	8.24	8.24	8.24	8.24	8.24	8.24	8.14	8.34
Aroclor-1268-5	(5)	8.53	8.53	8.53	8.53	8.53	8.53	8.43	8.63

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RETENTION TIMES OF INITIAL CALIBRATION

Decachlorobiphenyl	8.79	8.79	8.79	8.79	8.79	8.79	8.69	8.89
Tetrachloro-m-xylene	3.78	3.78	3.78	3.78	3.78	3.78	3.68	3.88

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Lab Name: Alliance
Lab Code: ACE
Instrument ID: ECD_P

Contract: CAMP02
SDG NO.: Q2484
Calibration Date(s): 07/01/2025 07/01/2025
Calibration Times: 14:04 21:30

GC Column: ZB-MR1 **ID:** 0.32 (mm)

LAB FILE ID: CF 1000 = PP073413.D CF 750 = PP073414.D
CF 500 = PP073415.D CF 250 = PP073416.D CF 050 = PP073417.D

COMPOUND		CF 1000	CF 750	CF 500	CF 250	CF 050	CF	% RSD
Aroclor-1016-1	(1)	53386559	55099693	57782372	61225280	46407680	54780317	10
Aroclor-1016-2	(2)	81419554	84803241	87804568	91506020	68225200	82751717	11
Aroclor-1016-3	(3)	50608265	52725643	55448056	56692696	48292660	52753464	7
Aroclor-1016-4	(4)	42447376	44200837	45284776	46593636	41594580	44024241	5
Aroclor-1016-5	(5)	38953823	39611271	42379456	43518084	36573140	40207155	7
Aroclor-1260-1	(1)	68843805	71260640	74149802	78663704	63647180	71313026	8
Aroclor-1260-2	(2)	99938528	104203213	107495204	111625928	102293820	105111339	4
Aroclor-1260-3	(3)	89992879	93711335	96595022	99925392	80545180	92153962	8
Aroclor-1260-4	(4)	83642835	85762545	90344816	93589416	88452740	88358470	4
Aroclor-1260-5	(5)	193274824	198819536	203197892	204345800	186020600	197131730	4
Decachlorobiphenyl		1421650480	1468921840	1501094120	1508618080	1204671600	1420991224	9
Tetrachloro-m-xylene		1570855440	1622793880	1655550080	1703062440	1429208000	1596293968	7
Aroclor-1242-1	(1)	47425724	48267568	50545606	53677172	54137380	50810690	6
Aroclor-1242-2	(2)	70605687	73942651	77425488	81332260	75817440	75824705	5
Aroclor-1242-3	(3)	43609661	45342768	48170240	50661632	52400880	48037036	8
Aroclor-1242-4	(4)	36635769	38015049	40483084	41469592	35926280	38505955	6
Aroclor-1242-5	(5)	40193741	40353568	44121034	48899828	38950680	42503770	10
Decachlorobiphenyl		1442761550	1502718333	1602192620	1540462680	1255271200	1468681277	9
Tetrachloro-m-xylene		1577761690	1632079280	1703090600	1745443160	1445015600	1620678066	7
Aroclor-1248-1	(1)	36440017	38150569	37262436	41452096	42286380	39118300	7
Aroclor-1248-2	(2)	48329662	50547713	48827254	51778388	58562440	51609091	8
Aroclor-1248-3	(3)	56570945	58408187	55042098	60722368	52592180	56667156	5
Aroclor-1248-4	(4)	68098333	70673667	69108470	75950940	68089760	70384234	5
Aroclor-1248-5	(5)	66645751	68842209	72410538	75877756	66165900	69988431	6
Decachlorobiphenyl		1508523030	1525420920	1478881260	1540009680	1268070800	1464181138	8
Tetrachloro-m-xylene		1604315820	1641926027	1551741820	1680674040	1394949600	1574721461	7
Aroclor-1254-1	(1)	63999015	67834332	69607928	76054128	77161340	70931349	8
Aroclor-1254-2	(2)	96232579	100969377	102890118	110292084	105313160	103139464	5
Aroclor-1254-3	(3)	103352127	108143771	111397258	116883672	128608440	113677054	9
Aroclor-1254-4	(4)	94005550	97663439	99341056	103690768	102730340	99486231	4
Aroclor-1254-5	(5)	92682459	96038677	97662174	101007260	86476540	94773422	6
Decachlorobiphenyl		1481522320	1524577613	1557007420	1588915360	1260352600	1482475063	9
Tetrachloro-m-xylene		1577655960	1644831773	1681333000	1765332680	1403156000	1614461883	8
Aroclor-1268-1	(1)	286615327	289052520	307483458	294851244	261364480	287873406	6

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Aroclor-1268-2	(2)	247916720	251358060	266224964	254365208	227947580	249562506	6
Aroclor-1268-3	(3)	214702422	217599913	228686398	224788636	214260700	220007614	3
Aroclor-1268-4	(4)	94022064	94827915	98593676	96762032	95146280	95870393	2
Aroclor-1268-5	(5)	630910741	636564881	660765348	643855636	546333060	623685933	7
Decachlorobiphenyl		2657569150	2696505867	2841581440	2789411560	2581412800	2713296163	4
Tetrachloro-m-xylene		1617584630	1640463653	1736400760	1565046840	1414382600	1594775697	7

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Lab Name: Alliance
Lab Code: ACE
Instrument ID: ECD_P

Contract: CAMP02
SDG NO.: Q2484
Calibration Date(s): 07/01/2025 07/01/2025
Calibration Times: 14:04 21:30

GC Column: ZB-MR2 **ID:** 0.32 (mm)

LAB FILE ID: CF 1000 = PP073413.D CF 750 = PP073414.D
CF 500 = PP073415.D CF 250 = PP073416.D CF 050 = PP073417.D

COMPOUND		CF 1000	CF 750	CF 500	CF 250	CF 050	CF	% RSD
Aroclor-1016-1	(1)	60174256	61652469	65707278	68697472	65429740	64332243	5
Aroclor-1016-2	(2)	89553215	90849693	97911362	103104680	95117320	95307254	6
Aroclor-1016-3	(3)	47760737	49133169	52363984	54033520	48807740	50419830	5
Aroclor-1016-4	(4)	37669371	39135572	42081524	43824204	40567820	40655698	6
Aroclor-1016-5	(5)	47972255	50349676	52978140	55111404	49824240	51247143	5
Aroclor-1260-1	(1)	85568106	92077153	95044522	97896916	90806160	92278571	5
Aroclor-1260-2	(2)	108395053	116492717	118624236	124712828	149744620	123593891	13
Aroclor-1260-3	(3)	95898053	104470747	101583108	105339980	93078140	100074006	5
Aroclor-1260-4	(4)	80000894	88722875	88003890	92045480	85312820	86817192	5
Aroclor-1260-5	(5)	209936846	226978429	216526966	226226544	211143860	218162529	4
Decachlorobiphenyl		1302456510	1414774613	1409048440	1485562240	1306412800	1383650921	6
Tetrachloro-m-xylene		1683025650	1786408827	1870928320	1901739040	1625568400	1773534047	7
Aroclor-1242-1	(1)	53280276	54693765	57617080	61835324	64576540	58400597	8
Aroclor-1242-2	(2)	82972139	81931147	87183548	91968308	87325500	86276128	5
Aroclor-1242-3	(3)	43743631	44030816	46799620	49550292	45297760	45884424	5
Aroclor-1242-4	(4)	41461297	42081584	45095442	47293720	43617680	43909945	5
Aroclor-1242-5	(5)	51909044	52967295	56730582	58513352	53462900	54716635	5
Decachlorobiphenyl		1424340080	1450974107	1528503620	1587816400	1352590800	1468845001	6
Tetrachloro-m-xylene		1883010450	1853943080	1918709500	1895172800	1684617400	1847090646	5
Aroclor-1248-1	(1)	42033623	43840621	39115776	46220760	48755960	43993348	8
Aroclor-1248-2	(2)	56827314	59455616	53089712	62482184	62673780	58905721	7
Aroclor-1248-3	(3)	59385868	61829628	53385880	64667732	62511060	60356034	7
Aroclor-1248-4	(4)	69578975	73002957	62777516	76679148	74543860	71316491	8
Aroclor-1248-5	(5)	72773558	74108969	70322374	77425468	73121080	73550290	4
Decachlorobiphenyl		1468137220	1389834400	1323620360	1545387480	1355376400	1416471172	6
Tetrachloro-m-xylene		1847505480	1847210627	1653069040	1807521240	1622513400	1755563957	6
Aroclor-1254-1	(1)	102934304	106592511	109028100	120731728	108455860	109548501	6
Aroclor-1254-2	(2)	89245302	92663879	94367858	105277948	103354040	96981805	7
Aroclor-1254-3	(3)	143533516	146102655	147782620	161681172	137594340	147338861	6
Aroclor-1254-4	(4)	87925313	92026563	91978244	100743696	78450540	90224871	9
Aroclor-1254-5	(5)	128472976	133438536	132590836	139444940	131430380	133075534	3
Decachlorobiphenyl		1365268720	1441926987	1465541720	1569805360	1402613400	1449031237	5
Tetrachloro-m-xylene		1755103800	1814214613	1848619580	1928531480	1514798800	1772253655	9
Aroclor-1268-1	(1)	282614813	303950412	304406056	299862664	286285140	295423817	3

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Aroclor-1268-2	(2)	251131090	270626467	272094030	267509272	248303600	261932892	4
Aroclor-1268-3	(3)	211302857	228722700	230182198	217737408	208169300	219222893	5
Aroclor-1268-4	(4)	93313531	99153364	100645408	92833816	87176160	94624456	6
Aroclor-1268-5	(5)	614873444	644117777	646287038	609236944	584176480	619738337	4
Decachlorobiphenyl		2503938560	2622033627	2700857080	2653903400	2481135200	2592373573	4
Tetrachloro-m-xylene		1836459180	1835199600	1882835460	1567494680	1720988000	1768595384	7

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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2484

Instrument ID: ECD_P **Date(s) Analyzed:** 07/01/2025 07/01/2025

GC Column: ZB-MR1 **ID:** 0.32 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Aroclor-1221	500	1	4.69	4.59	4.79	18873700
		2	4.78	4.68	4.88	16115600
		3	4.85	4.75	4.95	51736800
		4	0.00			0
		5	0.00			0
Aroclor-1232	500	1	4.85	4.75	4.95	39969400
		2	5.38	5.28	5.48	20562800
		3	5.66	5.56	5.76	42330400
		4	5.82	5.72	5.92	21555200
		5	5.91	5.81	6.01	14064800
Aroclor-1262	500	1	8.07	7.97	8.17	115225000
		2	8.38	8.28	8.48	249090000
		3	8.70	8.60	8.80	163294000
		4	8.78	8.68	8.88	122009000
		5	9.43	9.33	9.53	86953800

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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2484

Instrument ID: ECD_P **Date(s) Analyzed:** 07/01/2025 07/01/2025

GC Column: ZB-MR2 **ID:** 0.32 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Aroclor-1221	500	1	3.99	3.89	4.09	26914600
		2	4.08	3.98	4.18	20560400
		3	4.15	4.05	4.25	60670600
		4	0.00			0
		5	0.00			0
Aroclor-1232	500	1	4.15	4.05	4.25	47064800
		2	4.88	4.78	4.98	47003600
		3	5.06	4.96	5.16	24764800
		4	5.14	5.04	5.24	21423000
		5	5.31	5.21	5.41	23371200
Aroclor-1262	500	1	6.90	6.80	7.00	150053000
		2	7.15	7.05	7.25	124834000
		3	7.68	7.58	7.78	111157000
		4	7.74	7.64	7.84	182283000
		5	8.24	8.14	8.34	87201800

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2484

Continuing Calib Date: 07/02/2025 **Initial Calibration Date(s):** 07/01/2025 07/01/2025

Continuing Calib Time: 10:07 **Initial Calibration Time(s):** 14:04 21:30

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	TO	DIFF RT
Aroclor-1016-1	(1)	5.65	5.64	5.54	5.74	-0.01
Aroclor-1016-2	(2)	5.67	5.67	5.57	5.77	0.00
Aroclor-1016-3	(3)	5.74	5.73	5.63	5.83	-0.01
Aroclor-1016-4	(4)	5.83	5.83	5.73	5.93	0.00
Aroclor-1016-5	(5)	6.12	6.12	6.02	6.22	0.00
Aroclor-1260-1	(1)	7.24	7.23	7.13	7.33	-0.01
Aroclor-1260-2	(2)	7.49	7.49	7.39	7.59	0.00
Aroclor-1260-3	(3)	7.85	7.85	7.75	7.95	0.00
Aroclor-1260-4	(4)	8.08	8.07	7.97	8.17	-0.01
Aroclor-1260-5	(5)	8.39	8.39	8.29	8.49	0.00
Tetrachloro-m-xylene		4.50	4.49	4.39	4.59	-0.01
Decachlorobiphenyl		10.19	10.19	10.09	10.29	0.00

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2484

Continuing Calib Date: 07/02/2025 **Initial Calibration Date(s):** 07/01/2025 07/01/2025

Continuing Calib Time: 10:07 **Initial Calibration Time(s):** 14:04 21:30

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	TO	DIFF RT
Aroclor-1016-1	(1)	4.86	4.86	4.76	4.96	0.00
Aroclor-1016-2	(2)	4.88	4.88	4.78	4.98	0.00
Aroclor-1016-3	(3)	5.06	5.06	4.96	5.16	0.00
Aroclor-1016-4	(4)	5.10	5.10	5.00	5.20	0.00
Aroclor-1016-5	(5)	5.31	5.31	5.21	5.41	0.00
Aroclor-1260-1	(1)	6.35	6.34	6.24	6.44	0.00
Aroclor-1260-2	(2)	6.53	6.53	6.43	6.63	0.00
Aroclor-1260-3	(3)	6.69	6.69	6.59	6.79	0.01
Aroclor-1260-4	(4)	7.16	7.15	7.05	7.25	-0.01
Aroclor-1260-5	(5)	7.40	7.40	7.30	7.50	0.00
Tetrachloro-m-xylene		3.78	3.79	3.69	3.89	0.01
Decachlorobiphenyl		8.79	8.79	8.69	8.89	0.00

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2484

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 07/01/2025 07/01/2025

Client Sample No.: CCAL01 **Date Analyzed:** 07/02/2025

Lab Sample No.: AR1660CCC500 **Data File :** PP073448.D **Time Analyzed:** 10:07

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.651	5.544	5.744	569.830	500.000	14.0
Aroclor-1016-2	5.673	5.566	5.766	563.490	500.000	12.7
Aroclor-1016-3	5.735	5.629	5.829	542.290	500.000	8.5
Aroclor-1016-4	5.832	5.726	5.926	557.220	500.000	11.4
Aroclor-1016-5	6.124	6.018	6.218	561.610	500.000	12.3
Aroclor-1260-1	7.241	7.134	7.334	539.260	500.000	7.9
Aroclor-1260-2	7.494	7.389	7.589	562.220	500.000	12.4
Aroclor-1260-3	7.853	7.746	7.946	543.520	500.000	8.7
Aroclor-1260-4	8.076	7.971	8.171	528.530	500.000	5.7
Aroclor-1260-5	8.394	8.289	8.489	541.310	500.000	8.3
Decachlorobiphenyl	10.193	10.086	10.286	54.850	50.000	9.7
Tetrachloro-m-xylene	4.498	4.393	4.593	56.360	50.000	12.7

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2484

GC Column: ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 07/01/2025 07/01/2025

Client Sample No.: CCAL01 **Date Analyzed:** 07/02/2025

Lab Sample No.: AR1660CCC500 **Data File :** PP073448.D **Time Analyzed:** 10:07

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.864	4.764	4.964	480.890	500.000	-3.8
Aroclor-1016-2	4.881	4.782	4.982	483.670	500.000	-3.3
Aroclor-1016-3	5.058	4.958	5.158	495.110	500.000	-1.0
Aroclor-1016-4	5.100	5.000	5.200	491.380	500.000	-1.7
Aroclor-1016-5	5.314	5.214	5.414	500.010	500.000	0.0
Aroclor-1260-1	6.345	6.244	6.444	485.850	500.000	-2.8
Aroclor-1260-2	6.533	6.433	6.633	443.500	500.000	-11.3
Aroclor-1260-3	6.685	6.585	6.785	495.020	500.000	-1.0
Aroclor-1260-4	7.155	7.054	7.254	490.060	500.000	-2.0
Aroclor-1260-5	7.397	7.297	7.497	480.740	500.000	-3.9
Decachlorobiphenyl	8.790	8.690	8.890	51.990	50.000	4.0
Tetrachloro-m-xylene	3.783	3.685	3.885	46.450	50.000	-7.1

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2484

Continuing Calib Date: 07/02/2025 **Initial Calibration Date(s):** 07/01/2025 07/01/2025

Continuing Calib Time: 18:47 **Initial Calibration Time(s):** 14:04 21:30

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	TO	DIFF RT
Aroclor-1016-1	(1)	5.64	5.64	5.54	5.74	0.00
Aroclor-1016-2	(2)	5.66	5.67	5.57	5.77	0.01
Aroclor-1016-3	(3)	5.72	5.73	5.63	5.83	0.01
Aroclor-1016-4	(4)	5.82	5.83	5.73	5.93	0.01
Aroclor-1016-5	(5)	6.11	6.12	6.02	6.22	0.01
Aroclor-1260-1	(1)	7.23	7.23	7.13	7.33	0.00
Aroclor-1260-2	(2)	7.48	7.49	7.39	7.59	0.01
Aroclor-1260-3	(3)	7.84	7.85	7.75	7.95	0.01
Aroclor-1260-4	(4)	8.07	8.07	7.97	8.17	0.00
Aroclor-1260-5	(5)	8.38	8.39	8.29	8.49	0.01
Tetrachloro-m-xylene		4.49	4.49	4.39	4.59	0.00
Decachlorobiphenyl		10.18	10.19	10.09	10.29	0.01

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2484

Continuing Calib Date: 07/02/2025 **Initial Calibration Date(s):** 07/01/2025 07/01/2025

Continuing Calib Time: 18:47 **Initial Calibration Time(s):** 14:04 21:30

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	TO	DIFF RT
Aroclor-1016-1	(1)	4.86	4.86	4.76	4.96	0.00
Aroclor-1016-2	(2)	4.88	4.88	4.78	4.98	0.00
Aroclor-1016-3	(3)	5.06	5.06	4.96	5.16	0.00
Aroclor-1016-4	(4)	5.10	5.10	5.00	5.20	0.00
Aroclor-1016-5	(5)	5.31	5.31	5.21	5.41	0.00
Aroclor-1260-1	(1)	6.34	6.34	6.24	6.44	0.00
Aroclor-1260-2	(2)	6.53	6.53	6.43	6.63	0.00
Aroclor-1260-3	(3)	6.68	6.69	6.59	6.79	0.01
Aroclor-1260-4	(4)	7.15	7.15	7.05	7.25	0.00
Aroclor-1260-5	(5)	7.39	7.40	7.30	7.50	0.01
Tetrachloro-m-xylene		3.78	3.79	3.69	3.89	0.01
Decachlorobiphenyl		8.79	8.79	8.69	8.89	0.00

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2484

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 07/01/2025 07/01/2025

Client Sample No.: CCAL02 **Date Analyzed:** 07/02/2025

Lab Sample No.: AR1660CCC500 **Data File :** PP073463.D **Time Analyzed:** 18:47

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.640	5.544	5.744	511.530	500.000	2.3
Aroclor-1016-2	5.662	5.566	5.766	527.050	500.000	5.4
Aroclor-1016-3	5.724	5.629	5.829	489.140	500.000	-2.2
Aroclor-1016-4	5.822	5.726	5.926	517.580	500.000	3.5
Aroclor-1016-5	6.114	6.018	6.218	501.770	500.000	0.4
Aroclor-1260-1	7.231	7.134	7.334	498.660	500.000	-0.3
Aroclor-1260-2	7.484	7.389	7.589	488.000	500.000	-2.4
Aroclor-1260-3	7.843	7.746	7.946	468.290	500.000	-6.3
Aroclor-1260-4	8.066	7.971	8.171	450.520	500.000	-9.9
Aroclor-1260-5	8.384	8.289	8.489	473.490	500.000	-5.3
Decachlorobiphenyl	10.181	10.086	10.286	48.200	50.000	-3.6
Tetrachloro-m-xylene	4.490	4.393	4.593	51.140	50.000	2.3

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2484

GC Column: ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 07/01/2025 07/01/2025

Client Sample No.: CCAL02 **Date Analyzed:** 07/02/2025

Lab Sample No.: AR1660CCC500 **Data File :** PP073463.D **Time Analyzed:** 18:47

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.862	4.764	4.964	559.790	500.000	12.0
Aroclor-1016-2	4.880	4.782	4.982	561.770	500.000	12.4
Aroclor-1016-3	5.056	4.958	5.158	573.400	500.000	14.7
Aroclor-1016-4	5.098	5.000	5.200	575.300	500.000	15.1
Aroclor-1016-5	5.311	5.214	5.414	583.620	500.000	16.7
Aroclor-1260-1	6.342	6.244	6.444	528.760	500.000	5.8
Aroclor-1260-2	6.531	6.433	6.633	492.230	500.000	-1.6
Aroclor-1260-3	6.682	6.585	6.785	538.520	500.000	7.7
Aroclor-1260-4	7.152	7.054	7.254	518.690	500.000	3.7
Aroclor-1260-5	7.394	7.297	7.497	512.140	500.000	2.4
Decachlorobiphenyl	8.788	8.690	8.890	54.400	50.000	8.8
Tetrachloro-m-xylene	3.782	3.685	3.885	54.540	50.000	9.1

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2484

Continuing Calib Date: 07/02/2025 **Initial Calibration Date(s):** 07/01/2025 07/01/2025

Continuing Calib Time: 23:58 **Initial Calibration Time(s):** 14:04 21:30

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	TO	DIFF RT
Aroclor-1016-1	(1)	5.64	5.64	5.54	5.74	0.00
Aroclor-1016-2	(2)	5.66	5.67	5.57	5.77	0.01
Aroclor-1016-3	(3)	5.72	5.73	5.63	5.83	0.01
Aroclor-1016-4	(4)	5.82	5.83	5.73	5.93	0.01
Aroclor-1016-5	(5)	6.11	6.12	6.02	6.22	0.01
Aroclor-1260-1	(1)	7.23	7.23	7.13	7.33	0.00
Aroclor-1260-2	(2)	7.48	7.49	7.39	7.59	0.01
Aroclor-1260-3	(3)	7.84	7.85	7.75	7.95	0.01
Aroclor-1260-4	(4)	8.07	8.07	7.97	8.17	0.01
Aroclor-1260-5	(5)	8.38	8.39	8.29	8.49	0.01
Tetrachloro-m-xylene		4.49	4.49	4.39	4.59	0.00
Decachlorobiphenyl		10.18	10.19	10.09	10.29	0.01

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2484

Continuing Calib Date: 07/02/2025 **Initial Calibration Date(s):** 07/01/2025 07/01/2025

Continuing Calib Time: 23:58 **Initial Calibration Time(s):** 14:04 21:30

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	TO	DIFF RT
Aroclor-1016-1	(1)	4.86	4.86	4.76	4.96	0.00
Aroclor-1016-2	(2)	4.88	4.88	4.78	4.98	0.00
Aroclor-1016-3	(3)	5.06	5.06	4.96	5.16	0.00
Aroclor-1016-4	(4)	5.10	5.10	5.00	5.20	0.00
Aroclor-1016-5	(5)	5.31	5.31	5.21	5.41	0.00
Aroclor-1260-1	(1)	6.34	6.34	6.24	6.44	0.00
Aroclor-1260-2	(2)	6.53	6.53	6.43	6.63	0.00
Aroclor-1260-3	(3)	6.68	6.69	6.59	6.79	0.01
Aroclor-1260-4	(4)	7.15	7.15	7.05	7.25	0.00
Aroclor-1260-5	(5)	7.39	7.40	7.30	7.50	0.01
Tetrachloro-m-xylene		3.78	3.79	3.69	3.89	0.01
Decachlorobiphenyl		8.79	8.79	8.69	8.89	0.00

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2484

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 07/01/2025 07/01/2025

Client Sample No.: CCAL03 **Date Analyzed:** 07/02/2025

Lab Sample No.: AR1660CCC500 **Data File :** PP073478.D **Time Analyzed:** 23:58

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.640	5.544	5.744	476.200	500.000	-4.8
Aroclor-1016-2	5.661	5.566	5.766	500.870	500.000	0.2
Aroclor-1016-3	5.723	5.629	5.829	476.170	500.000	-4.8
Aroclor-1016-4	5.821	5.726	5.926	488.130	500.000	-2.4
Aroclor-1016-5	6.113	6.018	6.218	484.430	500.000	-3.1
Aroclor-1260-1	7.230	7.134	7.334	484.390	500.000	-3.1
Aroclor-1260-2	7.484	7.389	7.589	474.470	500.000	-5.1
Aroclor-1260-3	7.842	7.746	7.946	451.690	500.000	-9.7
Aroclor-1260-4	8.065	7.971	8.171	432.530	500.000	-13.5
Aroclor-1260-5	8.384	8.289	8.489	440.260	500.000	-11.9
Decachlorobiphenyl	10.178	10.086	10.286	45.850	50.000	-8.3
Tetrachloro-m-xylene	4.489	4.393	4.593	48.710	50.000	-2.6

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2484

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 07/01/2025 07/01/2025

Client Sample No.: CCAL03 **Date Analyzed:** 07/02/2025

Lab Sample No.: AR1660CCC500 **Data File :** PP073478.D **Time Analyzed:** 23:58

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.861	4.764	4.964	553.770	500.000	10.8
Aroclor-1016-2	4.879	4.782	4.982	561.550	500.000	12.3
Aroclor-1016-3	5.056	4.958	5.158	576.960	500.000	15.4
Aroclor-1016-4	5.097	5.000	5.200	578.510	500.000	15.7
Aroclor-1016-5	5.311	5.214	5.414	591.760	500.000	18.4
Aroclor-1260-1	6.342	6.244	6.444	550.610	500.000	10.1
Aroclor-1260-2	6.529	6.433	6.633	510.620	500.000	2.1
Aroclor-1260-3	6.682	6.585	6.785	544.940	500.000	9.0
Aroclor-1260-4	7.151	7.054	7.254	545.010	500.000	9.0
Aroclor-1260-5	7.394	7.297	7.497	520.370	500.000	4.1
Decachlorobiphenyl	8.786	8.690	8.890	54.310	50.000	8.6
Tetrachloro-m-xylene	3.783	3.685	3.885	53.770	50.000	7.5

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Fax : 908 789 8922

Analytical Sequence

Client: CDM Smith **SDG No.:** Q2484

Project: South River WM Replacement **Instrument ID:** ECD_P

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 07/01/2025 07/01/2025

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

CLIENT ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCB RT #	TCX RT #
I.BLK	I.BLK	07/01/2025	13:46	PP073412.D	10.18	4.49
AR1660ICC1000	AR1660ICC1000	07/01/2025	14:04	PP073413.D	10.19	4.50
AR1660ICC750	AR1660ICC750	07/01/2025	14:21	PP073414.D	10.18	4.49
AR1660ICC500	AR1660ICC500	07/01/2025	14:37	PP073415.D	10.19	4.49
AR1660ICC250	AR1660ICC250	07/01/2025	14:54	PP073416.D	10.18	4.49
AR1660ICC050	AR1660ICC050	07/01/2025	15:10	PP073417.D	10.18	4.49
AR1221ICC500	AR1221ICC500	07/01/2025	15:26	PP073418.D	10.18	4.49
AR1232ICC500	AR1232ICC500	07/01/2025	15:43	PP073419.D	10.18	4.49
AR1242ICC1000	AR1242ICC1000	07/01/2025	15:59	PP073420.D	10.19	4.49
AR1242ICC750	AR1242ICC750	07/01/2025	16:16	PP073421.D	10.18	4.49
AR1242ICC500	AR1242ICC500	07/01/2025	16:33	PP073422.D	10.19	4.49
AR1242ICC250	AR1242ICC250	07/01/2025	16:49	PP073423.D	10.18	4.49
AR1242ICC050	AR1242ICC050	07/01/2025	17:05	PP073424.D	10.19	4.49
AR1248ICC1000	AR1248ICC1000	07/01/2025	17:22	PP073425.D	10.18	4.49
AR1248ICC750	AR1248ICC750	07/01/2025	17:39	PP073426.D	10.18	4.49
AR1248ICC500	AR1248ICC500	07/01/2025	17:55	PP073427.D	10.18	4.49
AR1248ICC250	AR1248ICC250	07/01/2025	18:12	PP073428.D	10.19	4.49
AR1248ICC050	AR1248ICC050	07/01/2025	18:28	PP073429.D	10.18	4.49
AR1254ICC1000	AR1254ICC1000	07/01/2025	18:45	PP073430.D	10.18	4.49
AR1254ICC750	AR1254ICC750	07/01/2025	19:01	PP073431.D	10.18	4.49
AR1254ICC500	AR1254ICC500	07/01/2025	19:18	PP073432.D	10.18	4.49
AR1254ICC250	AR1254ICC250	07/01/2025	19:35	PP073433.D	10.18	4.49
AR1254ICC050	AR1254ICC050	07/01/2025	19:51	PP073434.D	10.18	4.49
AR1262ICC500	AR1262ICC500	07/01/2025	20:08	PP073435.D	10.18	4.49
AR1268ICC1000	AR1268ICC1000	07/01/2025	20:24	PP073436.D	10.18	4.49
AR1268ICC750	AR1268ICC750	07/01/2025	20:41	PP073437.D	10.18	4.49
AR1268ICC500	AR1268ICC500	07/01/2025	20:57	PP073438.D	10.18	4.49
AR1268ICC250	AR1268ICC250	07/01/2025	21:14	PP073439.D	10.18	4.49
AR1268ICC050	AR1268ICC050	07/01/2025	21:30	PP073440.D	10.18	4.49
AR1660CCC500	AR1660CCC500	07/02/2025	10:07	PP073448.D	10.19	4.50
I.BLK	I.BLK	07/02/2025	11:17	PP073452.D	10.18	4.49
PB168692BL	PB168692BL	07/02/2025	15:14	PP073454.D	10.18	4.49
PB168692BS	PB168692BS	07/02/2025	15:30	PP073455.D	10.18	4.49
PIT#4MS	Q2473-04MS	07/02/2025	17:09	PP073461.D	10.18	4.49
PIT#4MSD	Q2473-04MSD	07/02/2025	17:25	PP073462.D	10.18	4.49
AR1660CCC500	AR1660CCC500	07/02/2025	18:47	PP073463.D	10.18	4.49
I.BLK	I.BLK	07/02/2025	19:53	PP073467.D	10.18	4.49
TP-58	Q2484-01	07/02/2025	20:09	PP073468.D	10.18	4.49
TP-57	Q2484-02	07/02/2025	20:26	PP073469.D	10.18	4.49
TP-64	Q2484-03	07/02/2025	20:42	PP073470.D	10.18	4.49
TP-107	Q2484-04	07/02/2025	20:58	PP073471.D	10.18	4.49
TP-106	Q2484-05	07/02/2025	21:15	PP073472.D	10.18	4.49

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Analytical Sequence

TP-104	Q2484-06	07/02/2025	21:31	PP073473.D	10.18	4.49
AR1660CCC500	AR1660CCC500	07/02/2025	23:58	PP073478.D	10.18	4.49
I.BLK	I.BLK	07/03/2025	01:04	PP073482.D	10.18	4.49

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Analytical Sequence

Client: CDM Smith **SDG No.:** Q2484

Project: South River WM Replacement **Instrument ID:** ECD_P

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 07/01/2025 07/01/2025

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

CLIENT ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCB RT #	TCX RT #
I.BLK	I.BLK	07/01/2025	13:46	PP073412.D	8.79	3.78
AR1660ICC1000	AR1660ICC1000	07/01/2025	14:04	PP073413.D	8.79	3.79
AR1660ICC750	AR1660ICC750	07/01/2025	14:21	PP073414.D	8.79	3.79
AR1660ICC500	AR1660ICC500	07/01/2025	14:37	PP073415.D	8.79	3.79
AR1660ICC250	AR1660ICC250	07/01/2025	14:54	PP073416.D	8.79	3.78
AR1660ICC050	AR1660ICC050	07/01/2025	15:10	PP073417.D	8.79	3.78
AR1221ICC500	AR1221ICC500	07/01/2025	15:26	PP073418.D	8.79	3.78
AR1232ICC500	AR1232ICC500	07/01/2025	15:43	PP073419.D	8.79	3.78
AR1242ICC1000	AR1242ICC1000	07/01/2025	15:59	PP073420.D	8.79	3.79
AR1242ICC750	AR1242ICC750	07/01/2025	16:16	PP073421.D	8.79	3.79
AR1242ICC500	AR1242ICC500	07/01/2025	16:33	PP073422.D	8.79	3.79
AR1242ICC250	AR1242ICC250	07/01/2025	16:49	PP073423.D	8.79	3.78
AR1242ICC050	AR1242ICC050	07/01/2025	17:05	PP073424.D	8.79	3.78
AR1248ICC1000	AR1248ICC1000	07/01/2025	17:22	PP073425.D	8.79	3.78
AR1248ICC750	AR1248ICC750	07/01/2025	17:39	PP073426.D	8.79	3.79
AR1248ICC500	AR1248ICC500	07/01/2025	17:55	PP073427.D	8.79	3.79
AR1248ICC250	AR1248ICC250	07/01/2025	18:12	PP073428.D	8.79	3.78
AR1248ICC050	AR1248ICC050	07/01/2025	18:28	PP073429.D	8.79	3.78
AR1254ICC1000	AR1254ICC1000	07/01/2025	18:45	PP073430.D	8.79	3.78
AR1254ICC750	AR1254ICC750	07/01/2025	19:01	PP073431.D	8.79	3.78
AR1254ICC500	AR1254ICC500	07/01/2025	19:18	PP073432.D	8.79	3.78
AR1254ICC250	AR1254ICC250	07/01/2025	19:35	PP073433.D	8.79	3.78
AR1254ICC050	AR1254ICC050	07/01/2025	19:51	PP073434.D	8.79	3.78
AR1262ICC500	AR1262ICC500	07/01/2025	20:08	PP073435.D	8.79	3.78
AR1268ICC1000	AR1268ICC1000	07/01/2025	20:24	PP073436.D	8.79	3.78
AR1268ICC750	AR1268ICC750	07/01/2025	20:41	PP073437.D	8.79	3.78
AR1268ICC500	AR1268ICC500	07/01/2025	20:57	PP073438.D	8.79	3.78
AR1268ICC250	AR1268ICC250	07/01/2025	21:14	PP073439.D	8.79	3.78
AR1268ICC050	AR1268ICC050	07/01/2025	21:30	PP073440.D	8.79	3.78
AR1660CCC500	AR1660CCC500	07/02/2025	10:07	PP073448.D	8.79	3.78
I.BLK	I.BLK	07/02/2025	11:17	PP073452.D	8.78	3.78
PB168692BL	PB168692BL	07/02/2025	15:14	PP073454.D	8.79	3.78
PB168692BS	PB168692BS	07/02/2025	15:30	PP073455.D	8.79	3.78
PIT#4MS	Q2473-04MS	07/02/2025	17:09	PP073461.D	8.79	3.78
PIT#4MSD	Q2473-04MSD	07/02/2025	17:25	PP073462.D	8.79	3.78
AR1660CCC500	AR1660CCC500	07/02/2025	18:47	PP073463.D	8.79	3.78
I.BLK	I.BLK	07/02/2025	19:53	PP073467.D	8.79	3.78
TP-58	Q2484-01	07/02/2025	20:09	PP073468.D	8.79	3.78
TP-57	Q2484-02	07/02/2025	20:26	PP073469.D	8.79	3.78
TP-64	Q2484-03	07/02/2025	20:42	PP073470.D	8.79	3.78
TP-107	Q2484-04	07/02/2025	20:58	PP073471.D	8.79	3.78
TP-106	Q2484-05	07/02/2025	21:15	PP073472.D	8.79	3.78

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Analytical Sequence

TP-104	Q2484-06	07/02/2025	21:31	PP073473.D	8.79	3.78
AR1660CCC500	AR1660CCC500	07/02/2025	23:58	PP073478.D	8.79	3.78
I.BLK	I.BLK	07/03/2025	01:04	PP073482.D	8.79	3.78

QC SAMPLE DATA

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168692BL	SDG No.:	Q2484
Lab Sample ID:	PB168692BL	Matrix:	SOIL
Analytical Method:	8082A	% Solid:	100 Decanted:
Sample Wt/Vol:	30.01 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP073454.D	1	07/02/25 08:25	07/02/25 15:14	PB168692

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	3.90	U	3.90	17.0	ug/kg
11104-28-2	Aroclor-1221	4.00	U	4.00	17.0	ug/kg
11141-16-5	Aroclor-1232	3.70	U	3.70	17.0	ug/kg
53469-21-9	Aroclor-1242	4.00	U	4.00	17.0	ug/kg
12672-29-6	Aroclor-1248	5.90	U	5.90	17.0	ug/kg
11097-69-1	Aroclor-1254	3.20	U	3.20	17.0	ug/kg
37324-23-5	Aroclor-1262	5.00	U	5.00	17.0	ug/kg
11100-14-4	Aroclor-1268	3.60	U	3.60	17.0	ug/kg
11096-82-5	Aroclor-1260	3.20	U	3.20	17.0	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	21.8		32 - 144	109%	SPK: 20
2051-24-3	Decachlorobiphenyl	21.3		32 - 175	106%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	PIBLK-PP073412.D	SDG No.:	Q2484
Lab Sample ID:	I.BLK-PP073412.D	Matrix:	WATER
Analytical Method:	8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	5030		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP073412.D	1		07/01/25	PP070125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.097	U	0.097	0.50	ug/L
11104-28-2	Aroclor-1221	0.13	U	0.13	0.50	ug/L
11141-16-5	Aroclor-1232	0.096	U	0.096	0.50	ug/L
53469-21-9	Aroclor-1242	0.12	U	0.12	0.50	ug/L
12672-29-6	Aroclor-1248	0.071	U	0.071	0.50	ug/L
11097-69-1	Aroclor-1254	0.094	U	0.094	0.50	ug/L
11096-82-5	Aroclor-1260	0.081	U	0.081	0.50	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.11	U	0.11	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	16.5		60 - 140	83%	SPK: 20
2051-24-3	Decachlorobiphenyl	15.7		60 - 140	78%	SPK: 20

Comments:

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LOD = Limit of Detection
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Q = indicates LCS control criteria did not meet requirements
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J = Estimated Value
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S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/02/25
Project:	South River WM Replacement	Date Received:	07/02/25
Client Sample ID:	PIBLK-PP073452.D	SDG No.:	Q2484
Lab Sample ID:	I.BLK-PP073452.D	Matrix:	WATER
Analytical Method:	8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	5030		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP073452.D	1		07/02/25	PP070225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.097	U	0.097	0.50	ug/L
11104-28-2	Aroclor-1221	0.13	U	0.13	0.50	ug/L
11141-16-5	Aroclor-1232	0.096	U	0.096	0.50	ug/L
53469-21-9	Aroclor-1242	0.12	U	0.12	0.50	ug/L
12672-29-6	Aroclor-1248	0.071	U	0.071	0.50	ug/L
11097-69-1	Aroclor-1254	0.094	U	0.094	0.50	ug/L
11096-82-5	Aroclor-1260	0.081	U	0.081	0.50	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.11	U	0.11	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	16.9		60 - 140	85%	SPK: 20
2051-24-3	Decachlorobiphenyl	19.0		60 - 140	95%	SPK: 20

Comments:

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Q = indicates LCS control criteria did not meet requirements
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J = Estimated Value
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Report of Analysis

Client:	CDM Smith	Date Collected:	07/02/25
Project:	South River WM Replacement	Date Received:	07/02/25
Client Sample ID:	PIBLK-PP073467.D	SDG No.:	Q2484
Lab Sample ID:	I.BLK-PP073467.D	Matrix:	WATER
Analytical Method:	8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	5030		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP073467.D	1		07/02/25	PP070225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.097	U	0.097	0.50	ug/L
11104-28-2	Aroclor-1221	0.13	U	0.13	0.50	ug/L
11141-16-5	Aroclor-1232	0.096	U	0.096	0.50	ug/L
53469-21-9	Aroclor-1242	0.12	U	0.12	0.50	ug/L
12672-29-6	Aroclor-1248	0.071	U	0.071	0.50	ug/L
11097-69-1	Aroclor-1254	0.094	U	0.094	0.50	ug/L
11096-82-5	Aroclor-1260	0.081	U	0.081	0.50	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.11	U	0.11	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	16.7		60 - 140	84%	SPK: 20
2051-24-3	Decachlorobiphenyl	15.8		60 - 140	79%	SPK: 20

Comments:

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J = Estimated Value
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D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Report of Analysis

Client:	CDM Smith	Date Collected:	07/03/25
Project:	South River WM Replacement	Date Received:	07/03/25
Client Sample ID:	PIBLK-PP073482.D	SDG No.:	Q2484
Lab Sample ID:	I.BLK-PP073482.D	Matrix:	WATER
Analytical Method:	8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	5030		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP073482.D	1		07/03/25	PP070225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.097	U	0.097	0.50	ug/L
11104-28-2	Aroclor-1221	0.13	U	0.13	0.50	ug/L
11141-16-5	Aroclor-1232	0.096	U	0.096	0.50	ug/L
53469-21-9	Aroclor-1242	0.12	U	0.12	0.50	ug/L
12672-29-6	Aroclor-1248	0.071	U	0.071	0.50	ug/L
11097-69-1	Aroclor-1254	0.094	U	0.094	0.50	ug/L
11096-82-5	Aroclor-1260	0.081	U	0.081	0.50	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.11	U	0.11	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	15.8		60 - 140	79%	SPK: 20
2051-24-3	Decachlorobiphenyl	14.4		60 - 140	72%	SPK: 20

Comments:

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LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
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M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168692BS	SDG No.:	Q2484
Lab Sample ID:	PB168692BS	Matrix:	SOIL
Analytical Method:	8082A	% Solid:	100 Decanted:
Sample Wt/Vol:	30.02 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP073455.D	1	07/02/25 08:25	07/02/25 15:30	PB168692

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	186		3.90	17.0	ug/kg
11104-28-2	Aroclor-1221	4.00	U	4.00	17.0	ug/kg
11141-16-5	Aroclor-1232	3.70	U	3.70	17.0	ug/kg
53469-21-9	Aroclor-1242	4.00	U	4.00	17.0	ug/kg
12672-29-6	Aroclor-1248	5.90	U	5.90	17.0	ug/kg
11097-69-1	Aroclor-1254	3.20	U	3.20	17.0	ug/kg
37324-23-5	Aroclor-1262	5.00	U	5.00	17.0	ug/kg
11100-14-4	Aroclor-1268	3.60	U	3.60	17.0	ug/kg
11096-82-5	Aroclor-1260	173		3.20	17.0	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	23.0		32 - 144	115%	SPK: 20
2051-24-3	Decachlorobiphenyl	22.2		32 - 175	111%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	PIT#4MS	SDG No.:	Q2484
Lab Sample ID:	Q2473-04MS	Matrix:	SOIL
Analytical Method:	8082A	% Solid:	90.7 Decanted:
Sample Wt/Vol:	30.06 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP073461.D	1	07/02/25 08:25	07/02/25 17:09	PB168692

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	194		4.30	18.7	ug/kg
11104-28-2	Aroclor-1221	4.40	U	4.40	18.7	ug/kg
11141-16-5	Aroclor-1232	4.10	U	4.10	18.7	ug/kg
53469-21-9	Aroclor-1242	4.40	U	4.40	18.7	ug/kg
12672-29-6	Aroclor-1248	6.50	U	6.50	18.7	ug/kg
11097-69-1	Aroclor-1254	3.50	U	3.50	18.7	ug/kg
37324-23-5	Aroclor-1262	5.50	U	5.50	18.7	ug/kg
11100-14-4	Aroclor-1268	4.00	U	4.00	18.7	ug/kg
11096-82-5	Aroclor-1260	158		3.60	18.7	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	21.1		32 - 144	106%	SPK: 20
2051-24-3	Decachlorobiphenyl	20.1		32 - 175	101%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	PIT#4MSD	SDG No.:	Q2484
Lab Sample ID:	Q2473-04MSD	Matrix:	SOIL
Analytical Method:	8082A	% Solid:	90.7 Decanted:
Sample Wt/Vol:	30.04 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP073462.D	1	07/02/25 08:25	07/02/25 17:25	PB168692

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	179		4.30	18.7	ug/kg
11104-28-2	Aroclor-1221	4.40	U	4.40	18.7	ug/kg
11141-16-5	Aroclor-1232	4.10	U	4.10	18.7	ug/kg
53469-21-9	Aroclor-1242	4.40	U	4.40	18.7	ug/kg
12672-29-6	Aroclor-1248	6.50	U	6.50	18.7	ug/kg
11097-69-1	Aroclor-1254	3.50	U	3.50	18.7	ug/kg
37324-23-5	Aroclor-1262	5.50	U	5.50	18.7	ug/kg
11100-14-4	Aroclor-1268	4.00	U	4.00	18.7	ug/kg
11096-82-5	Aroclor-1260	149		3.60	18.7	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	19.6		32 - 144	98%	SPK: 20
2051-24-3	Decachlorobiphenyl	18.9		32 - 175	94%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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LAB CHRONICLE

OrderID:	Q2484	**OrderDate:**	7/2/2025 9:23:00 AM
Client:	CDM Smith	**Project:**	South River WM Replacement
Contact:	Marcie Ann Encinas	**Location:**	--Select--,A12,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2484-01	**TP-58**	**SOIL**			**07/01/25**			**07/01/25**
			Diesel Range Organics	8015D		07/02/25	07/03/25	
			Gasoline Range Organics	8015D			07/03/25	
			PCB	8082A		07/02/25	07/02/25	
			Pesticide-TCL	8081B		07/02/25	07/02/25	
Q2484-02	**TP-57**	**SOIL**			**07/01/25**			**07/01/25**
			Diesel Range Organics	8015D		07/02/25	07/02/25	
			Gasoline Range Organics	8015D			07/03/25	
			PCB	8082A		07/02/25	07/02/25	
			Pesticide-TCL	8081B		07/02/25	07/02/25	
Q2484-03	**TP-64**	**SOIL**			**07/01/25**			**07/01/25**
			Diesel Range Organics	8015D		07/02/25	07/03/25	
			Gasoline Range Organics	8015D			07/03/25	
			PCB	8082A		07/02/25	07/02/25	
			Pesticide-TCL	8081B		07/02/25	07/02/25	
Q2484-04	**TP-107**	**SOIL**			**07/01/25**			**07/01/25**
			Diesel Range Organics	8015D		07/02/25	07/02/25	
			Gasoline Range Organics	8015D			07/08/25	
			PCB	8082A		07/02/25	07/02/25	
			Pesticide-TCL	8081B		07/02/25	07/02/25	
Q2484-05	**TP-106**	**SOIL**			**07/01/25**			**07/01/25**
			Diesel Range Organics	8015D		07/02/25	07/02/25	
			Gasoline Range Organics	8015D			07/03/25	
			PCB	8082A		07/02/25	07/02/25	
			Pesticide-TCL	8081B		07/02/25	07/02/25	
Q2484-06	**TP-104**	**SOIL**			**07/01/25**			**07/01/25**
			Diesel Range Organics	8015D		07/02/25	07/02/25	

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LAB CHRONICLE

Gasoline Range Organics	8015D		07/03/25
PCB	8082A	07/02/25	07/02/25
Pesticide-TCL	8081B	07/02/25	07/02/25

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Hit Summary Sheet
SW-846

SDG No.: Q2484 **Order ID:** Q2484

Client: CDM Smith **Project ID:** South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : TP-58								
Q2484-01	TP-58	SOIL	Dieldrin	7.10	P	0.16	2.00	ug/kg
Q2484-01	TP-58	SOIL	Endrin	1.70	J	0.16	2.00	ug/kg
			Total Concentration:	**8.800**				
Client ID : TP-64								
Q2484-03	TP-64	SOIL	alpha-Chlordane	0.40	JP	0.14	1.90	ug/kg
Q2484-03	TP-64	SOIL	gamma-Chlordane	0.33	J	0.17	1.90	ug/kg
			Total Concentration:	**0.730**				

SAMPLE DATA

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-58	SDG No.:	Q2484
Lab Sample ID:	Q2484-01	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	86.2 Decanted:
Sample Wt/Vol:	30.01 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089317.D	1	07/02/25 08:25	07/02/25 20:17	PB168693

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	0.15	U	0.15	2.00	ug/kg
319-85-7	beta-BHC	0.21	U	0.21	2.00	ug/kg
319-86-8	delta-BHC	0.45	U	0.45	2.00	ug/kg
58-89-9	gamma-BHC (Lindane)	0.16	U	0.16	2.00	ug/kg
76-44-8	Heptachlor	0.14	U	0.14	2.00	ug/kg
309-00-2	Aldrin	0.14	U	0.14	2.00	ug/kg
1024-57-3	Heptachlor epoxide	0.22	U	0.22	2.00	ug/kg
959-98-8	Endosulfan I	0.16	U	0.16	2.00	ug/kg
60-57-1	Dieldrin	7.10	P	0.16	2.00	ug/kg
72-55-9	4,4-DDE	0.16	U	0.16	2.00	ug/kg
72-20-8	Endrin	1.70	J	0.16	2.00	ug/kg
33213-65-9	Endosulfan II	0.34	U	0.34	2.00	ug/kg
72-54-8	4,4-DDD	0.17	U	0.17	2.00	ug/kg
1031-07-8	Endosulfan Sulfate	0.15	U	0.15	2.00	ug/kg
50-29-3	4,4-DDT	0.16	U	0.16	2.00	ug/kg
72-43-5	Methoxychlor	0.43	U	0.43	2.00	ug/kg
53494-70-5	Endrin ketone	0.22	U	0.22	2.00	ug/kg
7421-93-4	Endrin aldehyde	0.43	U	0.43	2.00	ug/kg
5103-71-9	alpha-Chlordane	0.14	U	0.14	2.00	ug/kg
5103-74-2	gamma-Chlordane	0.17	U	0.17	2.00	ug/kg
8001-35-2	Toxaphene	6.30	U	6.30	38.3	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	38.5	*	20 - 144	193%	SPK: 20
877-09-8	Tetrachloro-m-xylene	13.7		19 - 148	68%	SPK: 20

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-58	SDG No.:	Q2484
Lab Sample ID:	Q2484-01	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	86.2 Decanted:
Sample Wt/Vol:	30.01 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089317.D	1	07/02/25 08:25	07/02/25 20:17	PB168693

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-57	SDG No.:	Q2484
Lab Sample ID:	Q2484-02	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	86 Decanted:
Sample Wt/Vol:	30.04 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089318.D	1	07/02/25 08:25	07/02/25 20:31	PB168693

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	0.15	U	0.15	2.00	ug/kg
319-85-7	beta-BHC	0.21	U	0.21	2.00	ug/kg
319-86-8	delta-BHC	0.45	U	0.45	2.00	ug/kg
58-89-9	gamma-BHC (Lindane)	0.16	U	0.16	2.00	ug/kg
76-44-8	Heptachlor	0.14	U	0.14	2.00	ug/kg
309-00-2	Aldrin	0.14	U	0.14	2.00	ug/kg
1024-57-3	Heptachlor epoxide	0.22	U	0.22	2.00	ug/kg
959-98-8	Endosulfan I	0.16	U	0.16	2.00	ug/kg
60-57-1	Dieldrin	0.16	U	0.16	2.00	ug/kg
72-55-9	4,4-DDE	0.16	U	0.16	2.00	ug/kg
72-20-8	Endrin	0.16	U	0.16	2.00	ug/kg
33213-65-9	Endosulfan II	0.34	U	0.34	2.00	ug/kg
72-54-8	4,4-DDD	0.17	U	0.17	2.00	ug/kg
1031-07-8	Endosulfan Sulfate	0.15	U	0.15	2.00	ug/kg
50-29-3	4,4-DDT	0.16	U	0.16	2.00	ug/kg
72-43-5	Methoxychlor	0.43	U	0.43	2.00	ug/kg
53494-70-5	Endrin ketone	0.22	U	0.22	2.00	ug/kg
7421-93-4	Endrin aldehyde	0.43	U	0.43	2.00	ug/kg
5103-71-9	alpha-Chlordane	0.14	U	0.14	2.00	ug/kg
5103-74-2	gamma-Chlordane	0.17	U	0.17	2.00	ug/kg
8001-35-2	Toxaphene	6.30	U	6.30	38.3	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	8.37		20 - 144	42%	SPK: 20
877-09-8	Tetrachloro-m-xylene	16.7		19 - 148	84%	SPK: 20

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-57	SDG No.:	Q2484
Lab Sample ID:	Q2484-02	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	86 Decanted:
Sample Wt/Vol:	30.04 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089318.D	1	07/02/25 08:25	07/02/25 20:31	PB168693

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-64	SDG No.:	Q2484
Lab Sample ID:	Q2484-03	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	88.4 Decanted:
Sample Wt/Vol:	30.07 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089319.D	1	07/02/25 08:25	07/02/25 20:44	PB168693

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	0.15	U	0.15	1.90	ug/kg
319-85-7	beta-BHC	0.20	U	0.20	1.90	ug/kg
319-86-8	delta-BHC	0.44	U	0.44	1.90	ug/kg
58-89-9	gamma-BHC (Lindane)	0.16	U	0.16	1.90	ug/kg
76-44-8	Heptachlor	0.14	U	0.14	1.90	ug/kg
309-00-2	Aldrin	0.14	U	0.14	1.90	ug/kg
1024-57-3	Heptachlor epoxide	0.21	U	0.21	1.90	ug/kg
959-98-8	Endosulfan I	0.16	U	0.16	1.90	ug/kg
60-57-1	Dieldrin	0.16	U	0.16	1.90	ug/kg
72-55-9	4,4-DDE	0.16	U	0.16	1.90	ug/kg
72-20-8	Endrin	0.16	U	0.16	1.90	ug/kg
33213-65-9	Endosulfan II	0.33	U	0.33	1.90	ug/kg
72-54-8	4,4-DDD	0.17	U	0.17	1.90	ug/kg
1031-07-8	Endosulfan Sulfate	0.15	U	0.15	1.90	ug/kg
50-29-3	4,4-DDT	0.16	U	0.16	1.90	ug/kg
72-43-5	Methoxychlor	0.42	U	0.42	1.90	ug/kg
53494-70-5	Endrin ketone	0.21	U	0.21	1.90	ug/kg
7421-93-4	Endrin aldehyde	0.42	U	0.42	1.90	ug/kg
5103-71-9	alpha-Chlordane	0.40	JP	0.14	1.90	ug/kg
5103-74-2	gamma-Chlordane	0.33	J	0.17	1.90	ug/kg
8001-35-2	Toxaphene	6.10	U	6.10	37.2	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	8.69		20 - 144	43%	SPK: 20
877-09-8	Tetrachloro-m-xylene	10.1		19 - 148	50%	SPK: 20

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-64	SDG No.:	Q2484
Lab Sample ID:	Q2484-03	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	88.4 Decanted:
Sample Wt/Vol:	30.07 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089319.D	1	07/02/25 08:25	07/02/25 20:44	PB168693

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-107	SDG No.:	Q2484
Lab Sample ID:	Q2484-04	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	83.8 Decanted:
Sample Wt/Vol:	30.02 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089320.D	1	07/02/25 08:25	07/02/25 20:58	PB168693

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	0.16	U	0.16	2.00	ug/kg
319-85-7	beta-BHC	0.21	U	0.21	2.00	ug/kg
319-86-8	delta-BHC	0.47	U	0.47	2.00	ug/kg
58-89-9	gamma-BHC (Lindane)	0.17	U	0.17	2.00	ug/kg
76-44-8	Heptachlor	0.14	U	0.14	2.00	ug/kg
309-00-2	Aldrin	0.14	U	0.14	2.00	ug/kg
1024-57-3	Heptachlor epoxide	0.23	U	0.23	2.00	ug/kg
959-98-8	Endosulfan I	0.17	U	0.17	2.00	ug/kg
60-57-1	Dieldrin	0.17	U	0.17	2.00	ug/kg
72-55-9	4,4-DDE	0.17	U	0.17	2.00	ug/kg
72-20-8	Endrin	0.17	U	0.17	2.00	ug/kg
33213-65-9	Endosulfan II	0.35	U	0.35	2.00	ug/kg
72-54-8	4,4-DDD	0.18	U	0.18	2.00	ug/kg
1031-07-8	Endosulfan Sulfate	0.16	U	0.16	2.00	ug/kg
50-29-3	4,4-DDT	0.17	U	0.17	2.00	ug/kg
72-43-5	Methoxychlor	0.44	U	0.44	2.00	ug/kg
53494-70-5	Endrin ketone	0.23	U	0.23	2.00	ug/kg
7421-93-4	Endrin aldehyde	0.44	U	0.44	2.00	ug/kg
5103-71-9	alpha-Chlordane	0.14	U	0.14	2.00	ug/kg
5103-74-2	gamma-Chlordane	0.18	U	0.18	2.00	ug/kg
8001-35-2	Toxaphene	6.50	U	6.50	39.4	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	8.00		20 - 144	40%	SPK: 20
877-09-8	Tetrachloro-m-xylene	12.0		19 - 148	60%	SPK: 20

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-107	SDG No.:	Q2484
Lab Sample ID:	Q2484-04	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	83.8 Decanted:
Sample Wt/Vol:	30.02 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089320.D	1	07/02/25 08:25	07/02/25 20:58	PB168693

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-106	SDG No.:	Q2484
Lab Sample ID:	Q2484-05	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	87.9 Decanted:
Sample Wt/Vol:	30.09 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089321.D	1	07/02/25 08:25	07/02/25 21:12	PB168693

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	0.15	U	0.15	1.90	ug/kg
319-85-7	beta-BHC	0.20	U	0.20	1.90	ug/kg
319-86-8	delta-BHC	0.44	U	0.44	1.90	ug/kg
58-89-9	gamma-BHC (Lindane)	0.16	U	0.16	1.90	ug/kg
76-44-8	Heptachlor	0.14	U	0.14	1.90	ug/kg
309-00-2	Aldrin	0.14	U	0.14	1.90	ug/kg
1024-57-3	Heptachlor epoxide	0.22	U	0.22	1.90	ug/kg
959-98-8	Endosulfan I	0.16	U	0.16	1.90	ug/kg
60-57-1	Dieldrin	0.16	U	0.16	1.90	ug/kg
72-55-9	4,4-DDE	0.16	U	0.16	1.90	ug/kg
72-20-8	Endrin	0.16	U	0.16	1.90	ug/kg
33213-65-9	Endosulfan II	0.33	U	0.33	1.90	ug/kg
72-54-8	4,4-DDD	0.17	U	0.17	1.90	ug/kg
1031-07-8	Endosulfan Sulfate	0.15	U	0.15	1.90	ug/kg
50-29-3	4,4-DDT	0.16	U	0.16	1.90	ug/kg
72-43-5	Methoxychlor	0.42	U	0.42	1.90	ug/kg
53494-70-5	Endrin ketone	0.22	U	0.22	1.90	ug/kg
7421-93-4	Endrin aldehyde	0.42	U	0.42	1.90	ug/kg
5103-71-9	alpha-Chlordane	0.14	U	0.14	1.90	ug/kg
5103-74-2	gamma-Chlordane	0.17	U	0.17	1.90	ug/kg
8001-35-2	Toxaphene	6.10	U	6.10	37.4	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	10.7		20 - 144	53%	SPK: 20
877-09-8	Tetrachloro-m-xylene	18.7		19 - 148	93%	SPK: 20

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-106	SDG No.:	Q2484
Lab Sample ID:	Q2484-05	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	87.9 Decanted:
Sample Wt/Vol:	30.09 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089321.D	1	07/02/25 08:25	07/02/25 21:12	PB168693

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-104	SDG No.:	Q2484
Lab Sample ID:	Q2484-06	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	87.3 Decanted:
Sample Wt/Vol:	30.06 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089322.D	1	07/02/25 08:25	07/02/25 21:26	PB168693

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	0.15	U	0.15	1.90	ug/kg
319-85-7	beta-BHC	0.21	U	0.21	1.90	ug/kg
319-86-8	delta-BHC	0.45	U	0.45	1.90	ug/kg
58-89-9	gamma-BHC (Lindane)	0.16	U	0.16	1.90	ug/kg
76-44-8	Heptachlor	0.14	U	0.14	1.90	ug/kg
309-00-2	Aldrin	0.14	U	0.14	1.90	ug/kg
1024-57-3	Heptachlor epoxide	0.22	U	0.22	1.90	ug/kg
959-98-8	Endosulfan I	0.16	U	0.16	1.90	ug/kg
60-57-1	Dieldrin	0.16	U	0.16	1.90	ug/kg
72-55-9	4,4-DDE	0.16	U	0.16	1.90	ug/kg
72-20-8	Endrin	0.16	U	0.16	1.90	ug/kg
33213-65-9	Endosulfan II	0.33	U	0.33	1.90	ug/kg
72-54-8	4,4-DDD	0.17	U	0.17	1.90	ug/kg
1031-07-8	Endosulfan Sulfate	0.15	U	0.15	1.90	ug/kg
50-29-3	4,4-DDT	0.16	U	0.16	1.90	ug/kg
72-43-5	Methoxychlor	0.42	U	0.42	1.90	ug/kg
53494-70-5	Endrin ketone	0.22	U	0.22	1.90	ug/kg
7421-93-4	Endrin aldehyde	0.42	U	0.42	1.90	ug/kg
5103-71-9	alpha-Chlordane	0.14	U	0.14	1.90	ug/kg
5103-74-2	gamma-Chlordane	0.17	U	0.17	1.90	ug/kg
8001-35-2	Toxaphene	6.20	U	6.20	37.7	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	10.5		20 - 144	52%	SPK: 20
877-09-8	Tetrachloro-m-xylene	17.4		19 - 148	87%	SPK: 20

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-104	SDG No.:	Q2484
Lab Sample ID:	Q2484-06	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	87.3 Decanted:
Sample Wt/Vol:	30.06 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089322.D	1	07/02/25 08:25	07/02/25 21:26	PB168693

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
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J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
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() = Laboratory InHouse Limit

QC SUMMARY

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Surrogate Summary

SDG No.: Q2484

Client: CDM Smith

Analytical Method: 8081B

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Recovery(%)	Qual	Limits(%) Low	Limits(%) High
I.BLK-PD088990.D	PIBLK-PD088990.D	Decachlorobiphen	1	20	18.2	91		57	171
		Tetrachloro-m-xyl	1	20	16.1	80		61	148
		Decachlorobiphen	2	20	18.6	93		57	171
		Tetrachloro-m-xyl	2	20	17.7	88		61	148
I.BLK-PD089301.D	PIBLK-PD089301.D	Decachlorobiphen	1	20	18.9	95		57	171
		Tetrachloro-m-xyl	1	20	18.4	92		61	148
		Decachlorobiphen	2	20	18.8	94		57	171
		Tetrachloro-m-xyl	2	20	20.7	103		61	148
PB168693BL	PB168693BL	Decachlorobiphen	1	20	17.6	88		20	144
		Tetrachloro-m-xyl	1	20	16.9	85		19	148
		Decachlorobiphen	2	20	17.8	89		20	144
		Tetrachloro-m-xyl	2	20	18.3	92		19	148
PB168693BS	PB168693BS	Decachlorobiphen	1	20	20.6	103		20	144
		Tetrachloro-m-xyl	1	20	19.0	95		19	148
		Decachlorobiphen	2	20	21.1	105		20	144
		Tetrachloro-m-xyl	2	20	22.7	113		19	148
Q2475-01MS	SOIL-PILEMS	Decachlorobiphen	1	20	20.2	101		20	144
		Tetrachloro-m-xyl	1	20	13.5	68		19	148
		Decachlorobiphen	2	20	16.2	81		20	144
		Tetrachloro-m-xyl	2	20	15.3	77		19	148
Q2475-01MSD	SOIL-PILEMSD	Decachlorobiphen	1	20	20.1	101		20	144
		Tetrachloro-m-xyl	1	20	13.5	68		19	148
		Decachlorobiphen	2	20	16.0	80		20	144
		Tetrachloro-m-xyl	2	20	15.1	75		19	148
I.BLK-PD089310.D	PIBLK-PD089310.D	Decachlorobiphen	1	20	18.3	91		57	171
		Tetrachloro-m-xyl	1	20	18.6	93		61	148
		Decachlorobiphen	2	20	18.8	94		57	171
		Tetrachloro-m-xyl	2	20	20.6	103		61	148
Q2484-01	TP-58	Decachlorobiphen	1	20	38.5	193	*	20	144
		Tetrachloro-m-xyl	1	20	12.1	60		19	148
		Decachlorobiphen	2	20	8.45	42		20	144
		Tetrachloro-m-xyl	2	20	13.7	68		19	148
Q2484-02	TP-57	Decachlorobiphen	1	20	8.37	42		20	144
		Tetrachloro-m-xyl	1	20	15.5	78		19	148
		Decachlorobiphen	2	20	7.82	39		20	144
		Tetrachloro-m-xyl	2	20	16.7	84		19	148
Q2484-03	TP-64	Decachlorobiphen	1	20	8.69	43		20	144
		Tetrachloro-m-xyl	1	20	8.74	44		19	148
		Decachlorobiphen	2	20	4.30	22		20	144
		Tetrachloro-m-xyl	2	20	10.1	50		19	148
Q2484-04	TP-107	Decachlorobiphen	1	20	8.00	40		20	144

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Surrogate Summary

SDG No.: Q2484

Client: CDM Smith

Analytical Method: 8081B

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Recovery(%)	Qual	Limits(%) Low	Limits(%) High
Q2484-04	TP-107	Tetrachloro-m-xyl	1	20	10.7	54		19	148
		Decachlorobiphen	2	20	5.87	29		20	144
		Tetrachloro-m-xyl	2	20	12.0	60		19	148
Q2484-05	TP-106	Decachlorobiphen	1	20	10.7	53		20	144
		Tetrachloro-m-xyl	1	20	16.9	85		19	148
		Decachlorobiphen	2	20	8.52	43		20	144
		Tetrachloro-m-xyl	2	20	18.7	93		19	148
Q2484-06	TP-104	Decachlorobiphen	1	20	10.5	52		20	144
		Tetrachloro-m-xyl	1	20	16.1	81		19	148
		Decachlorobiphen	2	20	8.48	42		20	144
		Tetrachloro-m-xyl	2	20	17.4	87		19	148
I.BLK-PD089323.D	PIBLK-PD089323.D	Decachlorobiphen	1	20	16.5	82		57	171
		Tetrachloro-m-xyl	1	20	19.0	95		61	148
		Decachlorobiphen	2	20	13.2	66		57	171
		Tetrachloro-m-xyl	2	20	21.3	107		61	148

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2484 **Analytical Method:** 8081B

Client: CDM Smith **DataFile :** PD089307.D

	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID:	**Q2475-01MS (Column 1)**	**Client Sample ID:**		**SOIL-PILEMS**								
	alpha-BHC	20.9	0	18.6	ug/kg	89				60	144	
	beta-BHC	20.9	0	15.0	ug/kg	72				54	143	
	delta-BHC	20.9	0	20.3	ug/kg	97				29	151	
	gamma-BHC (Lindane)	20.9	0	20.2	ug/kg	97				61	140	
	Heptachlor	20.9	0	19.3	ug/kg	92				63	135	
	Aldrin	20.9	0	19.9	ug/kg	95				49	139	
	Heptachlor epoxide	20.9	0	18.4	ug/kg	88				41	156	
	Endosulfan I	20.9	0	20.0	ug/kg	96				56	142	
	Dieldrin	20.9	0.42	18.6	ug/kg	93				47	161	
	4,4'-DDE	20.9	0	15.3	ug/kg	73				55	136	
	Endrin	20.9	0	18.2	ug/kg	87				57	139	
	Endosulfan II	20.9	0	18.0	ug/kg	86				40	163	
	4,4'-DDD	20.9	0	20.8	ug/kg	100				47	163	
	Endosulfan sulfate	20.9	0	17.5	ug/kg	84				62	139	
	4,4'-DDT	20.9	0.37	17.4	ug/kg	80				51	146	
	Methoxychlor	20.9	0	15.4	ug/kg	74				54	136	
	Endrin ketone	20.9	0	17.2	ug/kg	82				60	129	
	Endrin aldehyde	20.9	0	18.4	ug/kg	88				59	132	
	alpha-Chlordane	20.9	4.4	22.5	ug/kg	87				39	166	
	gamma-Chlordane	20.9	1.9	21.6	ug/kg	94				44	175	
Lab Sample ID:	**Q2475-01MS (Column 2)**	**Client Sample ID:**		**SOIL-PILEMS**								
	alpha-BHC	20.9	0	18.9	ug/kg	90				60	144	
	beta-BHC	20.9	0	20.5	ug/kg	98				54	143	
	delta-BHC	20.9	0	18.7	ug/kg	89				29	151	
	gamma-BHC (Lindane)	20.9	0	18.9	ug/kg	90				61	140	
	Heptachlor	20.9	0	19.0	ug/kg	91				63	135	
	Aldrin	20.9	0	18.6	ug/kg	89				49	139	
	Heptachlor epoxide	20.9	0	20.2	ug/kg	97				41	156	
	Endosulfan I	20.9	0	20.0	ug/kg	96				56	142	
	Dieldrin	20.9	1.6	21.0	ug/kg	100				47	161	
	4,4'-DDE	20.9	0	19.3	ug/kg	92				55	136	
	Endrin	20.9	0	18.6	ug/kg	89				57	139	
	Endosulfan II	20.9	0	18.6	ug/kg	89				40	163	
	4,4'-DDD	20.9	0	16.2	ug/kg	78				47	163	
	Endosulfan sulfate	20.9	0	17.2	ug/kg	82				62	139	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2484 **Analytical Method:** 8081B

Client: CDM Smith **DataFile :** PD089307.D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
4,4'-DDT	20.9	0.77	16.8	ug/kg	80				51	146	
Methoxychlor	20.9	0	14.8	ug/kg	71				54	136	
Endrin ketone	20.9	0	16.1	ug/kg	77				60	129	
Endrin aldehyde	20.9	0	18.6	ug/kg	89				59	132	
alpha-Chlordane	20.9	2.1	22.0	ug/kg	105				39	166	
gamma-Chlordane	20.9	1.2	19.5	ug/kg	93				44	175	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2484 **Analytical Method:** 8081B

Client: CDM Smith **DataFile :** PD089308.D

	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID:	**Q2475-01MSD (Column 1)**	**Client Sample ID:**		**SOIL-PILEMSD**								
	alpha-BHC	20.89	0	18.7	ug/kg	90		1		60	144	20
	beta-BHC	20.89	0	15.3	ug/kg	73		1		54	143	20
	delta-BHC	20.89	0	20.0	ug/kg	96		1		29	151	20
	gamma-BHC (Lindane)	20.89	0	19.8	ug/kg	95		2		61	140	20
	Heptachlor	20.89	0	18.4	ug/kg	88		4		63	135	20
	Aldrin	20.89	0	19.3	ug/kg	92		3		49	139	20
	Heptachlor epoxide	20.89	0	18.2	ug/kg	87		1		41	156	20
	Endosulfan I	20.89	0	20.1	ug/kg	96		0		56	142	20
	Dieldrin	20.89	0.42	18.4	ug/kg	92		1		47	161	20
	4,4'-DDE	20.89	0	15.0	ug/kg	72		1		55	136	20
	Endrin	20.89	0	17.8	ug/kg	85		2		57	139	20
	Endosulfan II	20.89	0	17.7	ug/kg	85		1		40	163	20
	4,4'-DDD	20.89	0	21.4	ug/kg	102		2		47	163	20
	Endosulfan sulfate	20.89	0	17.3	ug/kg	83		1		62	139	20
	4,4'-DDT	20.89	0.37	16.2	ug/kg	74		8		51	146	20
	Methoxychlor	20.89	0	15.9	ug/kg	76		3		54	136	20
	Endrin ketone	20.89	0	17.3	ug/kg	83		1		60	129	20
	Endrin aldehyde	20.89	0	18.0	ug/kg	86		2		59	132	20
	alpha-Chlordane	20.89	4.4	22.2	ug/kg	85		2		39	166	20
	gamma-Chlordane	20.89	1.9	19.3	ug/kg	83		12		44	175	20
Lab Sample ID:	**Q2475-01MSD (Column 2)**	**Client Sample ID:**		**SOIL-PILEMSD**								
	alpha-BHC	20.89	0	18.7	ug/kg	90		0		60	144	20
	beta-BHC	20.89	0	20.4	ug/kg	98		0		54	143	20
	delta-BHC	20.89	0	18.5	ug/kg	89		0		29	151	20
	gamma-BHC (Lindane)	20.89	0	18.7	ug/kg	90		0		61	140	20
	Heptachlor	20.89	0	18.2	ug/kg	87		4		63	135	20
	Aldrin	20.89	0	18.5	ug/kg	89		0		49	139	20
	Heptachlor epoxide	20.89	0	20.3	ug/kg	97		0		41	156	20
	Endosulfan I	20.89	0	20.2	ug/kg	97		1		56	142	20
	Dieldrin	20.89	1.6	20.9	ug/kg	100		0		47	161	20
	4,4'-DDE	20.89	0	19.1	ug/kg	91		1		55	136	20
	Endrin	20.89	0	18.7	ug/kg	90		1		57	139	20
	Endosulfan II	20.89	0	18.4	ug/kg	88		1		40	163	20
	4,4'-DDD	20.89	0	16.3	ug/kg	78		0		47	163	20
	Endosulfan sulfate	20.89	0	16.9	ug/kg	81		1		62	139	20

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2484 **Analytical Method:** 8081B

Client: CDM Smith **DataFile :** PD089308.D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
4,4'-DDT	20.89	0.77	15.8	ug/kg	76		5		51	146	20
Methoxychlor	20.89	0	14.3	ug/kg	68		4		54	136	20
Endrin ketone	20.89	0	15.9	ug/kg	76		1		60	129	20
Endrin aldehyde	20.89	0	17.8	ug/kg	85		5		59	132	20
alpha-Chlordane	20.89	2.1	21.9	ug/kg	105		0		39	166	20
gamma-Chlordane	20.89	1.2	18.6	ug/kg	89		4		44	175	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2484 **Analytical Method:** 8081B

Client: CDM Smith **Datafile :** PD089305.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB168693BS (Column 1)	alpha-BHC	16.65	16.2	ug/kg	97				84	123	
	beta-BHC	16.65	15.8	ug/kg	95				82	123	
	delta-BHC	16.65	17.6	ug/kg	106				83	126	
	gamma-BHC (Lindane)	16.65	16.3	ug/kg	98				83	125	
	Heptachlor	16.65	15.9	ug/kg	95				83	122	
	Aldrin	16.65	16.4	ug/kg	98				82	124	
	Heptachlor epoxide	16.65	16.0	ug/kg	96				83	120	
	Endosulfan I	16.65	16.4	ug/kg	98				81	124	
	Dieldrin	16.65	16.4	ug/kg	98				85	121	
	4,4'-DDE	16.65	15.6	ug/kg	94				81	123	
	Endrin	16.65	15.6	ug/kg	94				76	130	
	Endosulfan II	16.65	15.8	ug/kg	95				80	125	
	4,4'-DDD	16.65	17.8	ug/kg	107				80	131	
	Endosulfan sulfate	16.65	15.8	ug/kg	95				81	122	
	4,4'-DDT	16.65	14.6	ug/kg	88				70	129	
	Methoxychlor	16.65	14.9	ug/kg	89				60	119	
	Endrin ketone	16.65	16.1	ug/kg	97				77	132	
	Endrin aldehyde	16.65	16.2	ug/kg	97				79	124	
	alpha-Chlordane	16.65	16.2	ug/kg	97				84	120	
	gamma-Chlordane	16.65	16.2	ug/kg	97				83	122	
PB168693BS (Column 2)	alpha-BHC	16.65	16.6	ug/kg	100				84	123	
	beta-BHC	16.65	15.7	ug/kg	94				82	123	
	delta-BHC	16.65	16.2	ug/kg	97				83	126	
	gamma-BHC (Lindane)	16.65	16.0	ug/kg	96				83	125	
	Heptachlor	16.65	15.6	ug/kg	94				83	122	
	Aldrin	16.65	16.2	ug/kg	97				82	124	
	Heptachlor epoxide	16.65	16.4	ug/kg	98				83	120	
	Endosulfan I	16.65	14.4	ug/kg	86				81	124	
	Dieldrin	16.65	16.1	ug/kg	97				85	121	
	4,4'-DDE	16.65	16.2	ug/kg	97				81	123	
	Endrin	16.65	17.4	ug/kg	105				76	130	
	Endosulfan II	16.65	16.0	ug/kg	96				80	125	
	4,4'-DDD	16.65	15.7	ug/kg	94				80	131	
	Endosulfan sulfate	16.65	15.6	ug/kg	94				81	122	
	4,4'-DDT	16.65	14.6	ug/kg	88				70	129	
	Methoxychlor	16.65	15.0	ug/kg	90				60	119	
	Endrin ketone	16.65	16.7	ug/kg	100				77	132	
	Endrin aldehyde	16.65	16.1	ug/kg	97				79	124	
	alpha-Chlordane	16.65	15.9	ug/kg	95				84	120	
	gamma-Chlordane	16.65	15.9	ug/kg	95				83	122	

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4C

PESTICIDE METHOD BLANK SUMMARY

Client ID: PB168693BL

Lab Name: Alliance | Contract: CAMP02

Lab Code: ACE | SDG NO.: Q2484

Lab Sample ID: PB168693BL | Lab File ID: PD089304.D

Matrix: (soil/water) Solid | Extraction: (Type) SOXH

Sulfur Cleanup: (Y/N) N | Date Extracted: 07/02/2025

Date Analyzed (1): 07/02/2025 | Date Analyzed (2): 07/02/2025

Time Analyzed (1): 16:29 | Time Analyzed (2): 16:29

Instrument ID (1): ECD_D | Instrument ID (2): ECD_D

GC Column (1): ZB-MR1 ID: 0.32 (mm) | GC Column (2): ZB-MR2 ID: 0.32 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED 1	DATE ANALYZED 2
PB168693BS	PB168693BS	PD089305.D	07/02/2025	07/02/2025
SOIL-PILEMS	Q2475-01MS	PD089307.D	07/02/2025	07/02/2025
SOIL-PILEMSD	Q2475-01MSD	PD089308.D	07/02/2025	07/02/2025
TP-58	Q2484-01	PD089317.D	07/02/2025	07/02/2025
TP-57	Q2484-02	PD089318.D	07/02/2025	07/02/2025
TP-64	Q2484-03	PD089319.D	07/02/2025	07/02/2025
TP-107	Q2484-04	PD089320.D	07/02/2025	07/02/2025
TP-106	Q2484-05	PD089321.D	07/02/2025	07/02/2025
TP-104	Q2484-06	PD089322.D	07/02/2025	07/02/2025

COMMENTS:

QC SAMPLE DATA

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168693BL	SDG No.:	Q2484
Lab Sample ID:	PB168693BL	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	100 Decanted:
Sample Wt/Vol:	30.02 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089304.D	1	07/02/25 08:25	07/02/25 16:29	PB168693

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	0.13	U	0.13	1.70	ug/kg
319-85-7	beta-BHC	0.18	U	0.18	1.70	ug/kg
319-86-8	delta-BHC	0.39	U	0.39	1.70	ug/kg
58-89-9	gamma-BHC (Lindane)	0.14	U	0.14	1.70	ug/kg
76-44-8	Heptachlor	0.12	U	0.12	1.70	ug/kg
309-00-2	Aldrin	0.12	U	0.12	1.70	ug/kg
1024-57-3	Heptachlor epoxide	0.19	U	0.19	1.70	ug/kg
959-98-8	Endosulfan I	0.14	U	0.14	1.70	ug/kg
60-57-1	Dieldrin	0.14	U	0.14	1.70	ug/kg
72-55-9	4,4-DDE	0.14	U	0.14	1.70	ug/kg
72-20-8	Endrin	0.14	U	0.14	1.70	ug/kg
33213-65-9	Endosulfan II	0.29	U	0.29	1.70	ug/kg
72-54-8	4,4-DDD	0.15	U	0.15	1.70	ug/kg
1031-07-8	Endosulfan Sulfate	0.13	U	0.13	1.70	ug/kg
50-29-3	4,4-DDT	0.14	U	0.14	1.70	ug/kg
72-43-5	Methoxychlor	0.37	U	0.37	1.70	ug/kg
53494-70-5	Endrin ketone	0.19	U	0.19	1.70	ug/kg
7421-93-4	Endrin aldehyde	0.37	U	0.37	1.70	ug/kg
5103-71-9	alpha-Chlordane	0.12	U	0.12	1.70	ug/kg
5103-74-2	gamma-Chlordane	0.15	U	0.15	1.70	ug/kg
8001-35-2	Toxaphene	5.40	U	5.40	33.0	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	17.8		20 - 144	89%	SPK: 20
877-09-8	Tetrachloro-m-xylene	18.3		19 - 148	92%	SPK: 20

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168693BL	SDG No.:	Q2484
Lab Sample ID:	PB168693BL	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	100 Decanted:
Sample Wt/Vol:	30.02 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089304.D	1	07/02/25 08:25	07/02/25 16:29	PB168693

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/17/25
Project:	South River WM Replacement	Date Received:	06/17/25
Client Sample ID:	PIBLK-PD088990.D	SDG No.:	Q2484
Lab Sample ID:	I.BLK-PD088990.D	Matrix:	WATER
Analytical Method:	8081B	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088990.D	1		06/17/25	PD061825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
319-84-6	alpha-BHC	0.0039	U	0.0039	0.050	ug/L
319-85-7	beta-BHC	0.0049	U	0.0049	0.050	ug/L
319-86-8	delta-BHC	0.011	U	0.011	0.050	ug/L
58-89-9	gamma-BHC (Lindane)	0.0037	U	0.0037	0.050	ug/L
76-44-8	Heptachlor	0.0027	U	0.0027	0.050	ug/L
309-00-2	Aldrin	0.0036	U	0.0036	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0096	U	0.0096	0.050	ug/L
959-98-8	Endosulfan I	0.0031	U	0.0031	0.050	ug/L
60-57-1	Dieldrin	0.0036	U	0.0036	0.050	ug/L
72-55-9	4,4-DDE	0.0037	U	0.0037	0.050	ug/L
72-20-8	Endrin	0.0032	U	0.0032	0.050	ug/L
33213-65-9	Endosulfan II	0.0079	U	0.0079	0.050	ug/L
72-54-8	4,4-DDD	0.0071	U	0.0071	0.050	ug/L
1031-07-8	Endosulfan Sulfate	0.0037	U	0.0037	0.050	ug/L
50-29-3	4,4-DDT	0.0035	U	0.0035	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
53494-70-5	Endrin ketone	0.0093	U	0.0093	0.050	ug/L
7421-93-4	Endrin aldehyde	0.011	U	0.011	0.050	ug/L
5103-71-9	alpha-Chlordane	0.0035	U	0.0035	0.050	ug/L
5103-74-2	gamma-Chlordane	0.0039	U	0.0039	0.050	ug/L
8001-35-2	Toxaphene	0.17	U	0.17	1.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	18.6		57 - 171	93%	SPK: 20
877-09-8	Tetrachloro-m-xylene	17.7		61 - 148	88%	SPK: 20

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/17/25
Project:	South River WM Replacement	Date Received:	06/17/25
Client Sample ID:	PIBLK-PD088990.D	SDG No.:	Q2484
Lab Sample ID:	I.BLK-PD088990.D	Matrix:	WATER
Analytical Method:	8081B	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088990.D	1		06/17/25	PD061825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/02/25
Project:	South River WM Replacement	Date Received:	07/02/25
Client Sample ID:	PIBLK-PD089301.D	SDG No.:	Q2484
Lab Sample ID:	I.BLK-PD089301.D	Matrix:	WATER
Analytical Method:	8081B	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089301.D	1		07/02/25	pd070325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
319-84-6	alpha-BHC	0.0039	U	0.0039	0.050	ug/L
319-85-7	beta-BHC	0.0049	U	0.0049	0.050	ug/L
319-86-8	delta-BHC	0.011	U	0.011	0.050	ug/L
58-89-9	gamma-BHC (Lindane)	0.0037	U	0.0037	0.050	ug/L
76-44-8	Heptachlor	0.0027	U	0.0027	0.050	ug/L
309-00-2	Aldrin	0.0036	U	0.0036	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0096	U	0.0096	0.050	ug/L
959-98-8	Endosulfan I	0.0031	U	0.0031	0.050	ug/L
60-57-1	Dieldrin	0.0036	U	0.0036	0.050	ug/L
72-55-9	4,4-DDE	0.0037	U	0.0037	0.050	ug/L
72-20-8	Endrin	0.0032	U	0.0032	0.050	ug/L
33213-65-9	Endosulfan II	0.0079	U	0.0079	0.050	ug/L
72-54-8	4,4-DDD	0.0071	U	0.0071	0.050	ug/L
1031-07-8	Endosulfan Sulfate	0.0037	U	0.0037	0.050	ug/L
50-29-3	4,4-DDT	0.0035	U	0.0035	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
53494-70-5	Endrin ketone	0.0093	U	0.0093	0.050	ug/L
7421-93-4	Endrin aldehyde	0.011	U	0.011	0.050	ug/L
5103-71-9	alpha-Chlordane	0.0035	U	0.0035	0.050	ug/L
5103-74-2	gamma-Chlordane	0.0039	U	0.0039	0.050	ug/L
8001-35-2	Toxaphene	0.17	U	0.17	1.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	18.9		57 - 171	95%	SPK: 20
877-09-8	Tetrachloro-m-xylene	20.7		61 - 148	103%	SPK: 20

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/02/25
Project:	South River WM Replacement	Date Received:	07/02/25
Client Sample ID:	PIBLK-PD089301.D	SDG No.:	Q2484
Lab Sample ID:	I.BLK-PD089301.D	Matrix:	WATER
Analytical Method:	8081B	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089301.D	1		07/02/25	pd070325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Fax : 908 789 8922

Report of Analysis

Client:	CDM Smith	Date Collected:	07/02/25
Project:	South River WM Replacement	Date Received:	07/02/25
Client Sample ID:	PIBLK-PD089310.D	SDG No.:	Q2484
Lab Sample ID:	I.BLK-PD089310.D	Matrix:	WATER
Analytical Method:	8081B	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089310.D	1		07/02/25	pd070325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
319-84-6	alpha-BHC	0.0039	U	0.0039	0.050	ug/L
319-85-7	beta-BHC	0.0049	U	0.0049	0.050	ug/L
319-86-8	delta-BHC	0.011	U	0.011	0.050	ug/L
58-89-9	gamma-BHC (Lindane)	0.0037	U	0.0037	0.050	ug/L
76-44-8	Heptachlor	0.0027	U	0.0027	0.050	ug/L
309-00-2	Aldrin	0.0036	U	0.0036	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0096	U	0.0096	0.050	ug/L
959-98-8	Endosulfan I	0.0031	U	0.0031	0.050	ug/L
60-57-1	Dieldrin	0.0036	U	0.0036	0.050	ug/L
72-55-9	4,4-DDE	0.0037	U	0.0037	0.050	ug/L
72-20-8	Endrin	0.0032	U	0.0032	0.050	ug/L
33213-65-9	Endosulfan II	0.0079	U	0.0079	0.050	ug/L
72-54-8	4,4-DDD	0.0071	U	0.0071	0.050	ug/L
1031-07-8	Endosulfan Sulfate	0.0037	U	0.0037	0.050	ug/L
50-29-3	4,4-DDT	0.0035	U	0.0035	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
53494-70-5	Endrin ketone	0.0093	U	0.0093	0.050	ug/L
7421-93-4	Endrin aldehyde	0.011	U	0.011	0.050	ug/L
5103-71-9	alpha-Chlordane	0.0035	U	0.0035	0.050	ug/L
5103-74-2	gamma-Chlordane	0.0039	U	0.0039	0.050	ug/L
8001-35-2	Toxaphene	0.17	U	0.17	1.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	18.8		57 - 171	94%	SPK: 20
877-09-8	Tetrachloro-m-xylene	20.6		61 - 148	103%	SPK: 20

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/02/25
Project:	South River WM Replacement	Date Received:	07/02/25
Client Sample ID:	PIBLK-PD089310.D	SDG No.:	Q2484
Lab Sample ID:	I.BLK-PD089310.D	Matrix:	WATER
Analytical Method:	8081B	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089310.D	1		07/02/25	pd070325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/02/25
Project:	South River WM Replacement	Date Received:	07/02/25
Client Sample ID:	PIBLK-PD089323.D	SDG No.:	Q2484
Lab Sample ID:	I.BLK-PD089323.D	Matrix:	WATER
Analytical Method:	8081B	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089323.D	1		07/02/25	pd070325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
319-84-6	alpha-BHC	0.0039	U	0.0039	0.050	ug/L
319-85-7	beta-BHC	0.0049	U	0.0049	0.050	ug/L
319-86-8	delta-BHC	0.011	U	0.011	0.050	ug/L
58-89-9	gamma-BHC (Lindane)	0.0037	U	0.0037	0.050	ug/L
76-44-8	Heptachlor	0.0027	U	0.0027	0.050	ug/L
309-00-2	Aldrin	0.0036	U	0.0036	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0096	U	0.0096	0.050	ug/L
959-98-8	Endosulfan I	0.0031	U	0.0031	0.050	ug/L
60-57-1	Dieldrin	0.0036	U	0.0036	0.050	ug/L
72-55-9	4,4-DDE	0.0037	U	0.0037	0.050	ug/L
72-20-8	Endrin	0.0032	U	0.0032	0.050	ug/L
33213-65-9	Endosulfan II	0.0079	U	0.0079	0.050	ug/L
72-54-8	4,4-DDD	0.0071	U	0.0071	0.050	ug/L
1031-07-8	Endosulfan Sulfate	0.0037	U	0.0037	0.050	ug/L
50-29-3	4,4-DDT	0.0035	U	0.0035	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
53494-70-5	Endrin ketone	0.0093	U	0.0093	0.050	ug/L
7421-93-4	Endrin aldehyde	0.011	U	0.011	0.050	ug/L
5103-71-9	alpha-Chlordane	0.0035	U	0.0035	0.050	ug/L
5103-74-2	gamma-Chlordane	0.0039	U	0.0039	0.050	ug/L
8001-35-2	Toxaphene	0.17	U	0.17	1.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	16.5		57 - 171	82%	SPK: 20
877-09-8	Tetrachloro-m-xylene	21.3		61 - 148	107%	SPK: 20

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/02/25
Project:	South River WM Replacement	Date Received:	07/02/25
Client Sample ID:	PIBLK-PD089323.D	SDG No.:	Q2484
Lab Sample ID:	I.BLK-PD089323.D	Matrix:	WATER
Analytical Method:	8081B	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089323.D	1		07/02/25	pd070325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168693BS	SDG No.:	Q2484
Lab Sample ID:	PB168693BS	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	100 Decanted:
Sample Wt/Vol:	30.03 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089305.D	1	07/02/25 08:25	07/02/25 17:20	PB168693

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	16.6		0.13	1.70	ug/kg
319-85-7	beta-BHC	15.8		0.18	1.70	ug/kg
319-86-8	delta-BHC	17.6		0.39	1.70	ug/kg
58-89-9	gamma-BHC (Lindane)	16.3		0.14	1.70	ug/kg
76-44-8	Heptachlor	15.9		0.12	1.70	ug/kg
309-00-2	Aldrin	16.4		0.12	1.70	ug/kg
1024-57-3	Heptachlor epoxide	16.4		0.19	1.70	ug/kg
959-98-8	Endosulfan I	16.4		0.14	1.70	ug/kg
60-57-1	Dieldrin	16.4		0.14	1.70	ug/kg
72-55-9	4,4-DDE	16.2		0.14	1.70	ug/kg
72-20-8	Endrin	17.4		0.14	1.70	ug/kg
33213-65-9	Endosulfan II	16.0		0.29	1.70	ug/kg
72-54-8	4,4-DDD	17.8		0.15	1.70	ug/kg
1031-07-8	Endosulfan Sulfate	15.8		0.13	1.70	ug/kg
50-29-3	4,4-DDT	14.6		0.14	1.70	ug/kg
72-43-5	Methoxychlor	15.0		0.37	1.70	ug/kg
53494-70-5	Endrin ketone	16.7		0.19	1.70	ug/kg
7421-93-4	Endrin aldehyde	16.2		0.37	1.70	ug/kg
5103-71-9	alpha-Chlordane	16.2		0.12	1.70	ug/kg
5103-74-2	gamma-Chlordane	16.2		0.15	1.70	ug/kg
8001-35-2	Toxaphene	5.40	U	5.40	33.0	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	21.1		20 - 144	105%	SPK: 20
877-09-8	Tetrachloro-m-xylene	22.7		19 - 148	113%	SPK: 20

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168693BS	SDG No.:	Q2484
Lab Sample ID:	PB168693BS	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	100 Decanted:
Sample Wt/Vol:	30.03 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089305.D	1	07/02/25 08:25	07/02/25 17:20	PB168693

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	SOIL-PILEMS	SDG No.:	Q2484
Lab Sample ID:	Q2475-01MS	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	79.7 Decanted:
Sample Wt/Vol:	30.02 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089307.D	1	07/02/25 08:25	07/02/25 17:47	PB168693

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	18.9		0.16	2.10	ug/kg
319-85-7	beta-BHC	20.5		0.23	2.10	ug/kg
319-86-8	delta-BHC	20.3		0.49	2.10	ug/kg
58-89-9	gamma-BHC (Lindane)	20.2		0.18	2.10	ug/kg
76-44-8	Heptachlor	19.3		0.15	2.10	ug/kg
309-00-2	Aldrin	19.9		0.15	2.10	ug/kg
1024-57-3	Heptachlor epoxide	20.2		0.24	2.10	ug/kg
959-98-8	Endosulfan I	20.0		0.18	2.10	ug/kg
60-57-1	Dieldrin	21.0		0.18	2.10	ug/kg
72-55-9	4,4-DDE	19.3		0.18	2.10	ug/kg
72-20-8	Endrin	18.6		0.18	2.10	ug/kg
33213-65-9	Endosulfan II	18.6		0.36	2.10	ug/kg
72-54-8	4,4-DDD	20.8		0.19	2.10	ug/kg
1031-07-8	Endosulfan Sulfate	17.5		0.16	2.10	ug/kg
50-29-3	4,4-DDT	17.4		0.18	2.10	ug/kg
72-43-5	Methoxychlor	15.4		0.46	2.10	ug/kg
53494-70-5	Endrin ketone	17.2		0.24	2.10	ug/kg
7421-93-4	Endrin aldehyde	18.6		0.46	2.10	ug/kg
5103-71-9	alpha-Chlordane	22.5		0.15	2.10	ug/kg
5103-74-2	gamma-Chlordane	21.6		0.19	2.10	ug/kg
8001-35-2	Toxaphene	6.80	U	6.80	41.4	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	20.2		20 - 144	101%	SPK: 20
877-09-8	Tetrachloro-m-xylene	15.3		19 - 148	77%	SPK: 20

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	SOIL-PILEMS	SDG No.:	Q2484
Lab Sample ID:	Q2475-01MS	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	79.7 Decanted:
Sample Wt/Vol:	30.02 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089307.D	1	07/02/25 08:25	07/02/25 17:47	PB168693

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	SOIL-PILEMSD	SDG No.:	Q2484
Lab Sample ID:	Q2475-01MSD	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	79.7 Decanted:
Sample Wt/Vol:	30.03 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089308.D	1	07/02/25 08:25	07/02/25 18:00	PB168693

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	18.7		0.16	2.10	ug/kg
319-85-7	beta-BHC	20.4		0.23	2.10	ug/kg
319-86-8	delta-BHC	20.0		0.49	2.10	ug/kg
58-89-9	gamma-BHC (Lindane)	19.8		0.18	2.10	ug/kg
76-44-8	Heptachlor	18.4		0.15	2.10	ug/kg
309-00-2	Aldrin	19.3		0.15	2.10	ug/kg
1024-57-3	Heptachlor epoxide	20.3		0.24	2.10	ug/kg
959-98-8	Endosulfan I	20.2		0.18	2.10	ug/kg
60-57-1	Dieldrin	20.9		0.18	2.10	ug/kg
72-55-9	4,4-DDE	19.1		0.18	2.10	ug/kg
72-20-8	Endrin	18.7		0.18	2.10	ug/kg
33213-65-9	Endosulfan II	18.4		0.36	2.10	ug/kg
72-54-8	4,4-DDD	21.4		0.19	2.10	ug/kg
1031-07-8	Endosulfan Sulfate	17.3		0.16	2.10	ug/kg
50-29-3	4,4-DDT	16.2		0.18	2.10	ug/kg
72-43-5	Methoxychlor	15.9		0.46	2.10	ug/kg
53494-70-5	Endrin ketone	17.3		0.24	2.10	ug/kg
7421-93-4	Endrin aldehyde	18.0		0.46	2.10	ug/kg
5103-71-9	alpha-Chlordane	22.2		0.15	2.10	ug/kg
5103-74-2	gamma-Chlordane	19.3		0.19	2.10	ug/kg
8001-35-2	Toxaphene	6.80	U	6.80	41.4	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	20.1		20 - 144	101%	SPK: 20
877-09-8	Tetrachloro-m-xylene	15.1		19 - 148	75%	SPK: 20

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	SOIL-PILEMSD	SDG No.:	Q2484
Lab Sample ID:	Q2475-01MSD	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	79.7 Decanted:
Sample Wt/Vol:	30.03 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089308.D	1	07/02/25 08:25	07/02/25 18:00	PB168693

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

CALIBRATION SUMMARY

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RETENTION TIMES OF INITIAL CALIBRATION

Lab Name: Alliance
Lab Code: ACE
Instrument ID: ECD_D
Contract: CAMP02
SDG NO.: Q2484
Calibration Date(s): 06/17/2025 06/17/2025
Calibration Times: 15:52 16:47

GC Column: ZB-MR1 ID: 0.32 (mm)

LAB FILE ID: RT 100 = PD088993.D RT 075 = PD088994.D
RT 050 = PD088995.D RT 025 = PD088996.D RT 005 = PD088997.D

COMPOUND	RT 100	RT 075	RT 050	RT 025	RT 005	MEAN RT	RT WINDOW FROM	RT WINDOW TO
4,4'-DDD	6.71	6.70	6.71	6.70	6.70	6.70	6.60	6.80
4,4'-DDE	6.20	6.20	6.20	6.20	6.19	6.20	6.10	6.30
4,4'-DDT	7.02	7.02	7.02	7.02	7.02	7.02	6.92	7.12
Aldrin	5.27	5.27	5.27	5.27	5.27	5.27	5.17	5.37
alpha-BHC	4.00	4.00	4.00	4.00	4.00	4.00	3.90	4.10
alpha-Chlordane	6.03	6.03	6.03	6.03	6.03	6.03	5.93	6.13
beta-BHC	4.52	4.52	4.52	4.52	4.52	4.51	4.41	4.61
Decachlorobiphenyl	9.07	9.07	9.07	9.07	9.07	9.07	8.97	9.17
delta-BHC	4.76	4.76	4.76	4.76	4.76	4.76	4.66	4.86
Dieldrin	6.35	6.35	6.35	6.35	6.35	6.35	6.25	6.45
Endosulfan I	6.07	6.07	6.08	6.07	6.07	6.07	5.97	6.17
Endosulfan II	6.79	6.79	6.79	6.79	6.79	6.79	6.69	6.89
Endosulfan sulfate	7.15	7.15	7.15	7.15	7.15	7.15	7.05	7.25
Endrin	6.57	6.57	6.58	6.57	6.57	6.57	6.47	6.67
Endrin aldehyde	6.92	6.91	6.92	6.91	6.91	6.91	6.81	7.01
Endrin ketone	7.63	7.63	7.63	7.63	7.63	7.63	7.53	7.73
gamma-BHC (Lindane)	4.33	4.33	4.33	4.33	4.33	4.33	4.23	4.43
gamma-Chlordane	5.95	5.95	5.95	5.95	5.95	5.95	5.85	6.05
Heptachlor	4.93	4.93	4.93	4.93	4.93	4.93	4.83	5.03
Heptachlor epoxide	5.69	5.69	5.69	5.69	5.69	5.69	5.59	5.79
Methoxychlor	7.49	7.49	7.49	7.49	7.49	7.49	7.39	7.59
Tetrachloro-m-xylene	3.55	3.55	3.55	3.55	3.55	3.55	3.45	3.65

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RETENTION TIMES OF INITIAL CALIBRATION

Lab Name: Alliance
Lab Code: ACE
Instrument ID: ECD_D
Contract: CAMP02
SDG NO.: Q2484
Calibration Date(s): 06/17/2025 06/17/2025
Calibration Times: 15:52 16:47

GC Column: ZB-MR2 ID: 0.32 (mm)

LAB FILE ID: RT 100 = PD088993.D RT 075 = PD088994.D
RT 050 = PD088995.D RT 025 = PD088996.D RT 005 = PD088997.D

COMPOUND	RT 100	RT 075	RT 050	RT 025	RT 005	MEAN RT	RT WINDOW FROM	RT WINDOW TO
4,4'-DDD	5.93	5.93	5.93	5.93	5.93	5.93	5.83	6.03
4,4'-DDE	5.38	5.38	5.38	5.38	5.38	5.38	5.28	5.48
4,4'-DDT	6.18	6.18	6.18	6.18	6.18	6.18	6.08	6.28
Aldrin	4.37	4.37	4.37	4.37	4.37	4.37	4.27	4.47
alpha-BHC	3.39	3.39	3.39	3.39	3.39	3.39	3.29	3.49
alpha-Chlordane	5.19	5.19	5.19	5.19	5.19	5.19	5.09	5.29
beta-BHC	4.03	4.03	4.03	4.03	4.03	4.03	3.93	4.13
Decachlorobiphenyl	8.07	8.07	8.07	8.07	8.07	8.07	7.97	8.17
delta-BHC	4.26	4.26	4.26	4.26	4.26	4.26	4.16	4.36
Dieldrin	5.51	5.51	5.51	5.51	5.51	5.51	5.41	5.61
Endosulfan I	5.25	5.25	5.25	5.25	5.25	5.25	5.15	5.35
Endosulfan II	6.08	6.08	6.08	6.08	6.08	6.08	5.98	6.18
Endosulfan sulfate	6.48	6.48	6.48	6.48	6.48	6.48	6.38	6.58
Endrin	5.79	5.79	5.79	5.79	5.79	5.79	5.69	5.89
Endrin aldehyde	6.26	6.26	6.26	6.26	6.26	6.26	6.16	6.36
Endrin ketone	6.99	6.99	6.99	6.99	6.99	6.99	6.89	7.09
gamma-BHC (Lindane)	3.73	3.73	3.73	3.73	3.73	3.73	3.63	3.83
gamma-Chlordane	5.13	5.13	5.13	5.13	5.13	5.13	5.03	5.23
Heptachlor	4.08	4.08	4.08	4.08	4.08	4.08	3.98	4.18
Heptachlor epoxide	4.87	4.87	4.87	4.87	4.87	4.87	4.77	4.97
Methoxychlor	6.76	6.75	6.76	6.75	6.75	6.75	6.65	6.85
Tetrachloro-m-xylene	2.88	2.88	2.88	2.88	2.88	2.88	2.78	2.98

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Lab Name: Alliance
Lab Code: ACE
Instrument ID: ECD_D

Contract: CAMP02
SDG NO.: Q2484
Calibration Date(s): 06/17/2025 06/17/2025
Calibration Times: 15:52 16:47

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

LAB FILE ID: **CF 100 =** PD088993.D **CF 075 =** PD088994.D
CF 050 = PD088995.D **CF 025 =** PD088996.D **CF 005 =** PD088997.D

COMPOUND	CF 100	CF 075	CF 050	CF 025	CF 005	CF	% RSD
4,4'-DDD	3557450000	3439230000	3414120000	3228670000	3520780000	3432050000	4
4,4'-DDE	4564130000	4401240000	4312380000	4092310000	4435110000	4361030000	4
4,4'-DDT	3928430000	3802000000	3763430000	3580670000	3866490000	3788210000	3
Aldrin	5504150000	5312640000	5254800000	4989300000	5504000000	5312980000	4
alpha-BHC	6295370000	6031790000	5874750000	5417910000	5525530000	5829070000	6
alpha-Chlordane	4885060000	4758900000	4734630000	4584390000	5229700000	4838540000	5
beta-BHC	2136750000	2100860000	2137680000	2144670000	2515730000	2207140000	8
Decachlorobiphenyl	3598890000	3628150000	3773200000	3897960000	4739940000	3927630000	12
delta-BHC	5546280000	5292010000	5182350000	4751190000	4892690000	5132900000	6
Dieldrin	4933650000	4797080000	4750270000	4527510000	4978810000	4797470000	4
Endosulfan I	4511200000	4405770000	4412600000	4289200000	4918470000	4507450000	5
Endosulfan II	3829260000	3982180000	4002080000	3816490000	4553000000	4036600000	7
Endosulfan sulfate	3786900000	3718160000	3741600000	3667440000	4271990000	3837220000	6
Endrin	4238140000	4109540000	4096430000	3878120000	4305700000	4125590000	4
Endrin aldehyde	2964260000	2935670000	2964230000	2966830000	3488720000	3063940000	8
Endrin ketone	4050100000	3970810000	4004900000	3895960000	4443590000	4073070000	5
gamma-BHC (Lindane)	5900830000	5686510000	5566590000	5221690000	5532800000	5581680000	4
gamma-Chlordane	4869330000	4801300000	4716110000	4508810000	5045020000	4788110000	4
Heptachlor	5621840000	5429540000	5358570000	5116310000	5733550000	5451960000	4
Heptachlor epoxide	4794850000	4673610000	4749650000	4554690000	5346870000	4823940000	6
Methoxychlor	1926110000	1918890000	1971480000	1982080000	2304580000	2020630000	8
Tetrachloro-m-xylene	2812300000	2762040000	2767280000	2751820000	3172230000	2853130000	6

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Lab Name: Alliance
Lab Code: ACE
Instrument ID: ECD_D

Contract: CAMP02
SDG NO.: Q2484
Calibration Date(s): 06/17/2025 06/17/2025
Calibration Times: 15:52 16:47

GC Column: ZB-MR2 **ID:** 0.32 (mm)

LAB FILE ID: CF 100 = PD088993.D CF 075 = PD088994.D
CF 050 = PD088995.D CF 025 = PD088996.D CF 005 = PD088997.D

COMPOUND	CF 100	CF 075	CF 050	CF 025	CF 005	CF	% RSD
4,4'-DDD	17754100000	17899700000	18191100000	18805800000	22996200000	19129400000	11
4,4'-DDE	21343500000	21440200000	21823600000	22564100000	27409000000	22916100000	11
4,4'-DDT	19391000000	19327800000	19594100000	20005200000	23078500000	20279300000	8
Aldrin	22719200000	22747700000	23159400000	23852800000	28607200000	24217300000	10
alpha-BHC	25649000000	25438700000	25849200000	26153100000	30895500000	26797100000	9
alpha-Chlordane	21191300000	21145300000	21570900000	22517200000	28059300000	22896800000	13
beta-BHC	9903630000	9918550000	10198200000	10624100000	13086800000	10746200000	12
Decachlorobiphenyl	17946500000	17939700000	18428600000	19427500000	25107500000	19770000000	15
delta-BHC	23614400000	23533700000	23918700000	24298300000	29003000000	24873600000	9
Dieldrin	21438700000	21622000000	22120600000	22941800000	27919200000	23208500000	12
Endosulfan I	19170300000	19201000000	19315500000	20752900000	25772600000	20842500000	14
Endosulfan II	18473200000	18573800000	19087100000	20002300000	24846800000	20196600000	13
Endosulfan sulfate	17925600000	18043500000	18492500000	19409200000	24234500000	19621100000	13
Endrin	20535400000	19906600000	20644700000	21276500000	26206500000	21713900000	12
Endrin aldehyde	13773600000	13920200000	14379400000	15195500000	19287900000	15311300000	15
Endrin ketone	19587400000	19824900000	20446500000	21535300000	26614600000	21601700000	13
gamma-BHC (Lindane)	23622800000	23442000000	23749900000	24221500000	28748400000	24756900000	9
gamma-Chlordane	22229100000	22022500000	22519500000	23493700000	29348800000	23922700000	13
Heptachlor	23291600000	23365200000	23922200000	24716000000	29896800000	25038400000	11
Heptachlor epoxide	20080600000	20251900000	20827300000	21695300000	26635200000	21898100000	12
Methoxychlor	9712450000	9897880000	10259100000	10830900000	13140100000	10768100000	13
Tetrachloro-m-xylene	15879800000	15866400000	15978000000	16730900000	20310700000	16953200000	11

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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2484

Instrument ID: ECD_D **Date(s) Analyzed:** 06/17/2025 06/17/2025

GC Column: ZB-MR1 **ID:** 0.32 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Toxaphene	500	1	6.24	6.14	6.34	33601800
		2	6.44	6.34	6.54	47528600
		3	7.15	7.05	7.25	87292700
		4	7.56	7.46	7.66	111357000
		5	7.93	7.83	8.03	63112600

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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2484

Instrument ID: ECD_D **Date(s) Analyzed:** 06/17/2025 06/17/2025

GC Column: ZB-MR2 **ID:** 0.32 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Toxaphene	500	1	5.47	5.37	5.57	158160000
		2	5.65	5.55	5.75	108820000
		3	6.76	6.66	6.86	511856000
		4	7.20	7.10	7.30	350145000
		5	7.33	7.23	7.43	253920000

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2484

Continuing Calib Date: 07/02/2025 **Initial Calibration Date(s):** 06/17/2025 06/17/2025

Continuing Calib Time: 09:55 **Initial Calibration Time(s):** 15:52 16:47

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	9.07	9.07	8.97	9.17	0.00
Tetrachloro-m-xylene	3.55	3.55	3.45	3.65	0.00
alpha-BHC	4.00	4.00	3.90	4.10	0.00
beta-BHC	4.52	4.52	4.42	4.62	0.00
delta-BHC	4.77	4.76	4.66	4.86	0.00
gamma-BHC (Lindane)	4.33	4.33	4.23	4.43	0.00
Heptachlor	4.93	4.93	4.83	5.03	0.00
Aldrin	5.27	5.27	5.17	5.37	0.00
Heptachlor epoxide	5.69	5.69	5.59	5.79	0.00
Endosulfan I	6.07	6.08	5.98	6.18	0.01
Dieldrin	6.35	6.35	6.25	6.45	0.00
4,4'-DDE	6.20	6.20	6.10	6.30	0.00
Endrin	6.57	6.58	6.48	6.68	0.01
Endosulfan II	6.79	6.79	6.69	6.89	0.00
4,4'-DDD	6.71	6.71	6.61	6.81	0.01
Endosulfan sulfate	7.15	7.15	7.05	7.25	0.00
4,4'-DDT	7.02	7.02	6.92	7.12	0.00
Methoxychlor	7.49	7.49	7.39	7.59	0.00
Endrin ketone	7.63	7.63	7.53	7.73	0.00
Endrin aldehyde	6.92	6.92	6.82	7.02	0.01
alpha-Chlordane	6.03	6.03	5.93	6.13	0.00
gamma-Chlordane	5.95	5.95	5.85	6.05	0.00

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2484

Continuing Calib Date: 07/02/2025 **Initial Calibration Date(s):** 06/17/2025 06/17/2025

Continuing Calib Time: 09:55 **Initial Calibration Time(s):** 15:52 16:47

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	8.07	8.07	7.97	8.17	0.00
Tetrachloro-m-xylene	2.88	2.88	2.78	2.98	0.00
alpha-BHC	3.39	3.39	3.29	3.49	0.00
beta-BHC	4.03	4.03	3.93	4.13	0.00
delta-BHC	4.26	4.26	4.16	4.36	0.00
gamma-BHC (Lindane)	3.73	3.73	3.63	3.83	0.00
Heptachlor	4.08	4.08	3.98	4.18	0.00
Aldrin	4.37	4.37	4.27	4.47	0.00
Heptachlor epoxide	4.87	4.87	4.77	4.97	0.00
Endosulfan I	5.25	5.25	5.15	5.35	0.00
Dieldrin	5.51	5.51	5.41	5.61	0.00
4,4'-DDE	5.37	5.38	5.28	5.48	0.01
Endrin	5.79	5.79	5.69	5.89	0.00
Endosulfan II	6.08	6.08	5.98	6.18	0.00
4,4'-DDD	5.93	5.93	5.83	6.03	0.00
Endosulfan sulfate	6.48	6.48	6.38	6.58	0.00
4,4'-DDT	6.18	6.18	6.08	6.28	0.00
Methoxychlor	6.75	6.76	6.66	6.86	0.01
Endrin ketone	6.99	6.99	6.89	7.09	0.00
Endrin aldehyde	6.26	6.26	6.16	6.36	0.00
alpha-Chlordane	5.19	5.19	5.09	5.29	0.00
gamma-Chlordane	5.12	5.13	5.03	5.23	0.01

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2484

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 06/17/2025 06/17/2025

Client Sample No.: CCAL01 **Date Analyzed:** 07/02/2025

Lab Sample No.: PSTDCCC050 **Data File :** PD089303.D **Time Analyzed:** 09:55

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
4,4'-DDD	6.705	6.605	6.805	52.380	50.000	4.8
4,4'-DDE	6.195	6.096	6.296	49.640	50.000	-0.7
4,4'-DDT	7.021	6.921	7.121	43.520	50.000	-13.0
Aldrin	5.271	5.171	5.371	52.470	50.000	4.9
alpha-BHC	4.000	3.899	4.099	52.780	50.000	5.6
alpha-Chlordane	6.027	5.927	6.127	51.270	50.000	2.5
beta-BHC	4.516	4.415	4.615	50.560	50.000	1.1
Decachlorobiphenyl	9.073	8.972	9.172	47.480	50.000	-5.0
delta-BHC	4.765	4.664	4.864	54.640	50.000	9.3
Dieldrin	6.347	6.247	6.447	50.990	50.000	2.0
Endosulfan I	6.074	5.975	6.175	51.230	50.000	2.5
Endosulfan II	6.786	6.686	6.886	50.120	50.000	0.2
Endosulfan sulfate	7.149	7.049	7.249	48.630	50.000	-2.7
Endrin	6.574	6.475	6.675	47.290	50.000	-5.4
Endrin aldehyde	6.915	6.815	7.015	48.640	50.000	-2.7
Endrin ketone	7.630	7.530	7.730	49.520	50.000	-1.0
gamma-BHC (Lindane)	4.330	4.230	4.430	52.300	50.000	4.6
gamma-Chlordane	5.946	5.846	6.046	52.420	50.000	4.8
Heptachlor	4.929	4.829	5.029	50.310	50.000	0.6
Heptachlor epoxide	5.691	5.591	5.791	50.830	50.000	1.7
Methoxychlor	7.493	7.393	7.593	49.750	50.000	-0.5
Tetrachloro-m-xylene	3.550	3.450	3.650	52.390	50.000	4.8

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2484

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 06/17/2025 06/17/2025

Client Sample No.: CCAL01 **Date Analyzed:** 07/02/2025

Lab Sample No.: PSTDCCC050 **Data File :** PD089303.D **Time Analyzed:** 09:55

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
4,4'-DDD	5.929	5.830	6.030	49.850	50.000	-0.3
4,4'-DDE	5.374	5.275	5.475	49.720	50.000	-0.6
4,4'-DDT	6.183	6.084	6.284	43.110	50.000	-13.8
Aldrin	4.368	4.269	4.469	50.690	50.000	1.4
alpha-BHC	3.393	3.293	3.493	51.360	50.000	2.7
alpha-Chlordane	5.189	5.091	5.291	50.090	50.000	0.2
beta-BHC	4.025	3.926	4.126	48.780	50.000	-2.4
Decachlorobiphenyl	8.071	7.972	8.172	46.580	50.000	-6.8
delta-BHC	4.262	4.162	4.362	50.000	50.000	0.0
Dieldrin	5.510	5.413	5.613	50.060	50.000	0.1
Endosulfan I	5.246	5.147	5.347	50.240	50.000	0.5
Endosulfan II	6.080	5.981	6.181	48.840	50.000	-2.3
Endosulfan sulfate	6.481	6.383	6.583	47.770	50.000	-4.5
Endrin	5.789	5.689	5.889	49.970	50.000	-0.1
Endrin aldehyde	6.258	6.159	6.359	47.620	50.000	-4.8
Endrin ketone	6.990	6.892	7.092	48.880	50.000	-2.2
gamma-BHC (Lindane)	3.729	3.630	3.830	49.430	50.000	-1.1
gamma-Chlordane	5.124	5.026	5.226	50.640	50.000	1.3
Heptachlor	4.082	3.983	4.183	48.100	50.000	-3.8
Heptachlor epoxide	4.872	4.773	4.973	52.590	50.000	5.2
Methoxychlor	6.753	6.655	6.855	49.510	50.000	-1.0
Tetrachloro-m-xylene	2.881	2.780	2.980	52.710	50.000	5.4

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2484

Continuing Calib Date: 07/02/2025 **Initial Calibration Date(s):** 06/17/2025 06/17/2025

Continuing Calib Time: 18:55 **Initial Calibration Time(s):** 15:52 16:47

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	9.07	9.07	8.97	9.17	0.00
Tetrachloro-m-xylene	3.55	3.55	3.45	3.65	0.00
alpha-BHC	4.00	4.00	3.90	4.10	0.00
beta-BHC	4.52	4.52	4.42	4.62	0.00
delta-BHC	4.77	4.76	4.66	4.86	0.00
gamma-BHC (Lindane)	4.33	4.33	4.23	4.43	0.00
Heptachlor	4.93	4.93	4.83	5.03	0.00
Aldrin	5.27	5.27	5.17	5.37	0.00
Heptachlor epoxide	5.69	5.69	5.59	5.79	0.00
Endosulfan I	6.07	6.08	5.98	6.18	0.01
Dieldrin	6.35	6.35	6.25	6.45	0.00
4,4'-DDE	6.20	6.20	6.10	6.30	0.00
Endrin	6.58	6.58	6.48	6.68	0.01
Endosulfan II	6.79	6.79	6.69	6.89	0.00
4,4'-DDD	6.71	6.71	6.61	6.81	0.00
Endosulfan sulfate	7.15	7.15	7.05	7.25	0.00
4,4'-DDT	7.02	7.02	6.92	7.12	0.00
Methoxychlor	7.49	7.49	7.39	7.59	0.00
Endrin ketone	7.63	7.63	7.53	7.73	0.00
Endrin aldehyde	6.92	6.92	6.82	7.02	0.00
alpha-Chlordane	6.03	6.03	5.93	6.13	0.00
gamma-Chlordane	5.95	5.95	5.85	6.05	0.00

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2484

Continuing Calib Date: 07/02/2025 **Initial Calibration Date(s):** 06/17/2025 06/17/2025

Continuing Calib Time: 18:55 **Initial Calibration Time(s):** 15:52 16:47

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	8.07	8.07	7.97	8.17	0.00
Tetrachloro-m-xylene	2.88	2.88	2.78	2.98	0.00
alpha-BHC	3.39	3.39	3.29	3.49	0.00
beta-BHC	4.03	4.03	3.93	4.13	0.00
delta-BHC	4.26	4.26	4.16	4.36	0.00
gamma-BHC (Lindane)	3.73	3.73	3.63	3.83	0.00
Heptachlor	4.08	4.08	3.98	4.18	0.00
Aldrin	4.37	4.37	4.27	4.47	0.00
Heptachlor epoxide	4.87	4.87	4.77	4.97	0.00
Endosulfan I	5.25	5.25	5.15	5.35	0.00
Dieldrin	5.51	5.51	5.41	5.61	0.00
4,4'-DDE	5.38	5.38	5.28	5.48	0.00
Endrin	5.79	5.79	5.69	5.89	0.00
Endosulfan II	6.08	6.08	5.98	6.18	0.00
4,4'-DDD	5.93	5.93	5.83	6.03	0.00
Endosulfan sulfate	6.48	6.48	6.38	6.58	0.00
4,4'-DDT	6.18	6.18	6.08	6.28	0.00
Methoxychlor	6.75	6.76	6.66	6.86	0.01
Endrin ketone	6.99	6.99	6.89	7.09	0.00
Endrin aldehyde	6.26	6.26	6.16	6.36	0.00
alpha-Chlordane	5.19	5.19	5.09	5.29	0.00
gamma-Chlordane	5.13	5.13	5.03	5.23	0.00

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2484

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 06/17/2025 06/17/2025

Client Sample No.: CCAL02 **Date Analyzed:** 07/02/2025

Lab Sample No.: PSTDCCC050 **Data File :** PD089312.D **Time Analyzed:** 18:55

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
4,4'-DDD	6.706	6.605	6.805	53.150	50.000	6.3
4,4'-DDE	6.196	6.096	6.296	50.200	50.000	0.4
4,4'-DDT	7.022	6.921	7.121	45.570	50.000	-8.9
Aldrin	5.272	5.171	5.371	52.990	50.000	6.0
alpha-BHC	4.000	3.899	4.099	53.490	50.000	7.0
alpha-Chlordane	6.028	5.927	6.127	51.740	50.000	3.5
beta-BHC	4.516	4.415	4.615	51.020	50.000	2.0
Decachlorobiphenyl	9.073	8.972	9.172	47.920	50.000	-4.2
delta-BHC	4.765	4.664	4.864	55.290	50.000	10.6
Dieldrin	6.348	6.247	6.447	52.020	50.000	4.0
Endosulfan I	6.074	5.975	6.175	51.710	50.000	3.4
Endosulfan II	6.787	6.686	6.886	50.770	50.000	1.5
Endosulfan sulfate	7.150	7.049	7.249	49.290	50.000	-1.4
Endrin	6.575	6.475	6.675	49.120	50.000	-1.8
Endrin aldehyde	6.916	6.815	7.015	49.530	50.000	-0.9
Endrin ketone	7.631	7.530	7.730	50.220	50.000	0.4
gamma-BHC (Lindane)	4.331	4.230	4.430	53.060	50.000	6.1
gamma-Chlordane	5.946	5.846	6.046	52.510	50.000	5.0
Heptachlor	4.930	4.829	5.029	51.270	50.000	2.5
Heptachlor epoxide	5.691	5.591	5.791	51.100	50.000	2.2
Methoxychlor	7.494	7.393	7.593	51.790	50.000	3.6
Tetrachloro-m-xylene	3.550	3.450	3.650	53.070	50.000	6.1

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2484

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 06/17/2025 06/17/2025

Client Sample No.: CCAL02 **Date Analyzed:** 07/02/2025

Lab Sample No.: PSTDCCC050 **Data File :** PD089312.D **Time Analyzed:** 18:55

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
4,4'-DDD	5.930	5.830	6.030	50.040	50.000	0.1
4,4'-DDE	5.376	5.275	5.475	50.100	50.000	0.2
4,4'-DDT	6.184	6.084	6.284	44.530	50.000	-10.9
Aldrin	4.369	4.269	4.469	51.390	50.000	2.8
alpha-BHC	3.393	3.293	3.493	52.390	50.000	4.8
alpha-Chlordane	5.191	5.091	5.291	50.520	50.000	1.0
beta-BHC	4.025	3.926	4.126	49.370	50.000	-1.3
Decachlorobiphenyl	8.073	7.972	8.172	47.250	50.000	-5.5
delta-BHC	4.262	4.162	4.362	50.800	50.000	1.6
Dieldrin	5.512	5.413	5.613	50.520	50.000	1.0
Endosulfan I	5.247	5.147	5.347	50.520	50.000	1.0
Endosulfan II	6.081	5.981	6.181	49.390	50.000	-1.2
Endosulfan sulfate	6.483	6.383	6.583	48.100	50.000	-3.8
Endrin	5.790	5.689	5.889	52.250	50.000	4.5
Endrin aldehyde	6.259	6.159	6.359	48.010	50.000	-4.0
Endrin ketone	6.992	6.892	7.092	48.820	50.000	-2.4
gamma-BHC (Lindane)	3.728	3.630	3.830	51.820	50.000	3.6
gamma-Chlordane	5.126	5.026	5.226	51.150	50.000	2.3
Heptachlor	4.083	3.983	4.183	49.370	50.000	-1.3
Heptachlor epoxide	4.873	4.773	4.973	53.130	50.000	6.3
Methoxychlor	6.754	6.655	6.855	51.520	50.000	3.0
Tetrachloro-m-xylene	2.882	2.780	2.980	54.310	50.000	8.6

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2484

Continuing Calib Date: 07/02/2025 **Initial Calibration Date(s):** 06/17/2025 06/17/2025

Continuing Calib Time: 23:01 **Initial Calibration Time(s):** 15:52 16:47

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	9.07	9.07	8.97	9.17	0.00
Tetrachloro-m-xylene	3.55	3.55	3.45	3.65	0.00
alpha-BHC	4.00	4.00	3.90	4.10	0.00
beta-BHC	4.52	4.52	4.42	4.62	0.00
delta-BHC	4.77	4.76	4.66	4.86	0.00
gamma-BHC (Lindane)	4.33	4.33	4.23	4.43	0.00
Heptachlor	4.93	4.93	4.83	5.03	0.00
Aldrin	5.27	5.27	5.17	5.37	0.00
Heptachlor epoxide	5.69	5.69	5.59	5.79	0.00
Endosulfan I	6.08	6.08	5.98	6.18	0.01
Dieldrin	6.35	6.35	6.25	6.45	0.00
4,4'-DDE	6.20	6.20	6.10	6.30	0.00
Endrin	6.57	6.58	6.48	6.68	0.01
Endosulfan II	6.79	6.79	6.69	6.89	0.00
4,4'-DDD	6.71	6.71	6.61	6.81	0.00
Endosulfan sulfate	7.15	7.15	7.05	7.25	0.00
4,4'-DDT	7.02	7.02	6.92	7.12	0.00
Methoxychlor	7.49	7.49	7.39	7.59	0.00
Endrin ketone	7.63	7.63	7.53	7.73	0.00
Endrin aldehyde	6.92	6.92	6.82	7.02	0.00
alpha-Chlordane	6.03	6.03	5.93	6.13	0.00
gamma-Chlordane	5.95	5.95	5.85	6.05	0.00

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2484

Continuing Calib Date: 07/02/2025 **Initial Calibration Date(s):** 06/17/2025 06/17/2025

Continuing Calib Time: 23:01 **Initial Calibration Time(s):** 15:52 16:47

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	8.07	8.07	7.97	8.17	0.00
Tetrachloro-m-xylene	2.88	2.88	2.78	2.98	0.00
alpha-BHC	3.39	3.39	3.29	3.49	0.00
beta-BHC	4.03	4.03	3.93	4.13	0.00
delta-BHC	4.26	4.26	4.16	4.36	0.00
gamma-BHC (Lindane)	3.73	3.73	3.63	3.83	0.00
Heptachlor	4.08	4.08	3.98	4.18	0.00
Aldrin	4.37	4.37	4.27	4.47	0.00
Heptachlor epoxide	4.87	4.87	4.77	4.97	0.00
Endosulfan I	5.25	5.25	5.15	5.35	0.01
Dieldrin	5.51	5.51	5.41	5.61	0.00
4,4'-DDE	5.38	5.38	5.28	5.48	0.00
Endrin	5.79	5.79	5.69	5.89	0.00
Endosulfan II	6.08	6.08	5.98	6.18	0.00
4,4'-DDD	5.93	5.93	5.83	6.03	0.00
Endosulfan sulfate	6.48	6.48	6.38	6.58	0.00
4,4'-DDT	6.18	6.18	6.08	6.28	0.00
Methoxychlor	6.75	6.76	6.66	6.86	0.01
Endrin ketone	6.99	6.99	6.89	7.09	0.00
Endrin aldehyde	6.26	6.26	6.16	6.36	0.00
alpha-Chlordane	5.19	5.19	5.09	5.29	0.00
gamma-Chlordane	5.12	5.13	5.03	5.23	0.01

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2484

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 06/17/2025 06/17/2025

Client Sample No.: CCAL03 **Date Analyzed:** 07/02/2025

Lab Sample No.: PSTDCCC050 **Data File :** PD089324.D **Time Analyzed:** 23:01

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
4,4'-DDD	6.706	6.605	6.805	53.900	50.000	7.8
4,4'-DDE	6.196	6.096	6.296	48.960	50.000	-2.1
4,4'-DDT	7.022	6.921	7.121	42.480	50.000	-15.0
Aldrin	5.272	5.171	5.371	55.580	50.000	11.2
alpha-BHC	4.000	3.899	4.099	56.340	50.000	12.7
alpha-Chlordane	6.027	5.927	6.127	51.820	50.000	3.6
beta-BHC	4.517	4.415	4.615	53.480	50.000	7.0
Decachlorobiphenyl	9.074	8.972	9.172	44.780	50.000	-10.4
delta-BHC	4.765	4.664	4.864	58.390	50.000	16.8
Dieldrin	6.348	6.247	6.447	51.290	50.000	2.6
Endosulfan I	6.075	5.975	6.175	52.410	50.000	4.8
Endosulfan II	6.787	6.686	6.886	49.360	50.000	-1.3
Endosulfan sulfate	7.150	7.049	7.249	46.940	50.000	-6.1
Endrin	6.574	6.475	6.675	48.210	50.000	-3.6
Endrin aldehyde	6.916	6.815	7.015	47.120	50.000	-5.8
Endrin ketone	7.631	7.530	7.730	46.780	50.000	-6.4
gamma-BHC (Lindane)	4.331	4.230	4.430	55.910	50.000	11.8
gamma-Chlordane	5.947	5.846	6.046	52.380	50.000	4.8
Heptachlor	4.930	4.829	5.029	53.610	50.000	7.2
Heptachlor epoxide	5.691	5.591	5.791	51.820	50.000	3.6
Methoxychlor	7.494	7.393	7.593	47.910	50.000	-4.2
Tetrachloro-m-xylene	3.551	3.450	3.650	55.620	50.000	11.2

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2484

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 06/17/2025 06/17/2025

Client Sample No.: CCAL03 **Date Analyzed:** 07/02/2025

Lab Sample No.: PSTDCCC050 **Data File :** PD089324.D **Time Analyzed:** 23:01

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
4,4'-DDD	5.930	5.830	6.030	49.290	50.000	-1.4
4,4'-DDE	5.375	5.275	5.475	53.810	50.000	7.6
4,4'-DDT	6.183	6.084	6.284	44.980	50.000	-10.0
Aldrin	4.369	4.269	4.469	54.630	50.000	9.3
alpha-BHC	3.392	3.293	3.493	55.460	50.000	10.9
alpha-Chlordane	5.189	5.091	5.291	52.850	50.000	5.7
beta-BHC	4.026	3.926	4.126	50.580	50.000	1.2
Decachlorobiphenyl	8.072	7.972	8.172	42.630	50.000	-14.7
delta-BHC	4.262	4.162	4.362	54.260	50.000	8.5
Dieldrin	5.511	5.413	5.613	53.020	50.000	6.0
Endosulfan I	5.245	5.147	5.347	43.330	50.000	-13.3
Endosulfan II	6.081	5.981	6.181	49.970	50.000	-0.1
Endosulfan sulfate	6.482	6.383	6.583	48.420	50.000	-3.2
Endrin	5.790	5.689	5.889	59.220	50.000	18.4
Endrin aldehyde	6.259	6.159	6.359	49.300	50.000	-1.4
Endrin ketone	6.991	6.892	7.092	46.520	50.000	-7.0
gamma-BHC (Lindane)	3.729	3.630	3.830	55.030	50.000	10.1
gamma-Chlordane	5.124	5.026	5.226	52.950	50.000	5.9
Heptachlor	4.083	3.983	4.183	52.180	50.000	4.4
Heptachlor epoxide	4.871	4.773	4.973	54.720	50.000	9.4
Methoxychlor	6.754	6.655	6.855	49.600	50.000	-0.8
Tetrachloro-m-xylene	2.880	2.780	2.980	56.730	50.000	13.5

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PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2484

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 06/17/2025 06/17/2025

Client Sample No. (PEM): PEM - PD088991.D **Date Analyzed:** 06/17/2025

Lab Sample No.(PEM): PEM **Time Analyzed:** 15:25

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.071	8.970	9.170	21.440	20.000	7.2
Tetrachloro-m-xylene	3.550	3.500	3.600	19.860	20.000	-0.7
alpha-BHC	3.999	3.950	4.050	8.970	10.000	-10.3
beta-BHC	4.514	4.460	4.560	9.720	10.000	-2.8
gamma-BHC (Lindane)	4.330	4.280	4.380	9.320	10.000	-6.8
Endrin	6.574	6.500	6.640	50.260	50.000	0.5
4,4'-DDT	7.020	6.950	7.090	100.820	100.000	0.8
Methoxychlor	7.493	7.420	7.560	229.880	250.000	-8.0

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 06/17/2025 06/17/2025

Client Sample No. (PEM): PEM - PD088991.D **Date Analyzed:** 06/17/2025

Lab Sample No.(PEM): PEM **Time Analyzed:** 15:25

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	8.072	7.970	8.170	21.290	20.000	6.5
Tetrachloro-m-xylene	2.880	2.830	2.930	20.440	20.000	2.2
alpha-BHC	3.393	3.340	3.440	10.570	10.000	5.7
beta-BHC	4.025	3.970	4.080	10.750	10.000	7.5
gamma-BHC (Lindane)	3.729	3.680	3.780	10.580	10.000	5.8
Endrin	5.789	5.720	5.860	50.490	50.000	1.0
4,4'-DDT	6.183	6.110	6.250	96.080	100.000	-3.9
Methoxychlor	6.754	6.680	6.820	198.860	250.000	-20.5

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PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2484

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 06/17/2025 06/17/2025

Client Sample No. (PEM): PEM - PD089302.D **Date Analyzed:** 07/02/2025

Lab Sample No.(PEM): PEM **Time Analyzed:** 09:41

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.073	8.970	9.170	19.340	20.000	-3.3
Tetrachloro-m-xylene	3.550	3.500	3.600	19.670	20.000	-1.7
alpha-BHC	3.999	3.950	4.050	9.190	10.000	-8.1
beta-BHC	4.516	4.470	4.570	10.220	10.000	2.2
gamma-BHC (Lindane)	4.330	4.280	4.380	9.660	10.000	-3.4
Endrin	6.573	6.500	6.640	45.330	50.000	-9.3
4,4'-DDT	7.021	6.950	7.090	80.330	100.000	-19.7
Methoxychlor	7.493	7.420	7.560	179.550	250.000	-28.2

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 06/17/2025 06/17/2025

Client Sample No. (PEM): PEM - PD089302.D **Date Analyzed:** 07/02/2025

Lab Sample No.(PEM): PEM **Time Analyzed:** 09:41

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	8.071	7.970	8.170	19.470	20.000	-2.7
Tetrachloro-m-xylene	2.879	2.830	2.930	20.510	20.000	2.6
alpha-BHC	3.391	3.340	3.440	10.690	10.000	6.9
beta-BHC	4.025	3.970	4.080	10.350	10.000	3.5
gamma-BHC (Lindane)	3.729	3.680	3.780	10.470	10.000	4.7
Endrin	5.788	5.720	5.860	46.570	50.000	-6.9
4,4'-DDT	6.182	6.110	6.250	78.790	100.000	-21.2
Methoxychlor	6.753	6.680	6.820	157.760	250.000	-36.9

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PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2484

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 06/17/2025 06/17/2025

Client Sample No. (PEM): PEM - PD089311.D **Date Analyzed:** 07/02/2025

Lab Sample No.(PEM): PEM **Time Analyzed:** 18:41

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.073	8.970	9.170	19.370	20.000	-3.2
Tetrachloro-m-xylene	3.551	3.500	3.600	20.050	20.000	0.3
alpha-BHC	4.000	3.950	4.050	9.340	10.000	-6.6
beta-BHC	4.516	4.470	4.570	10.270	10.000	2.7
gamma-BHC (Lindane)	4.331	4.280	4.380	9.800	10.000	-2.0
Endrin	6.574	6.500	6.640	47.170	50.000	-5.7
4,4'-DDT	7.022	6.950	7.090	84.360	100.000	-15.6
Methoxychlor	7.493	7.420	7.560	188.780	250.000	-24.5

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 06/17/2025 06/17/2025

Client Sample No. (PEM): PEM - PD089311.D **Date Analyzed:** 07/02/2025

Lab Sample No.(PEM): PEM **Time Analyzed:** 18:41

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	8.071	7.970	8.170	19.620	20.000	-1.9
Tetrachloro-m-xylene	2.881	2.830	2.930	21.700	20.000	8.5
alpha-BHC	3.393	3.340	3.440	11.250	10.000	12.5
beta-BHC	4.026	3.980	4.080	10.560	10.000	5.6
gamma-BHC (Lindane)	3.728	3.680	3.780	10.960	10.000	9.6
Endrin	5.789	5.720	5.860	49.190	50.000	-1.6
4,4'-DDT	6.183	6.110	6.250	82.900	100.000	-17.1
Methoxychlor	6.753	6.680	6.820	167.690	250.000	-32.9

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Analytical Sequence

Client: CDM Smith **SDG No.:** Q2484

Project: South River WM Replacement **Instrument ID:** ECD_D

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 06/17/2025 06/17/2025

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

CLIENT ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCB RT #	TCX RT #
I.BLK	I.BLK	06/17/2025	15:11	PD088990.D	9.07	3.55
PEM	PEM	06/17/2025	15:25	PD088991.D	9.07	3.55
RESCHK	RESCHK	06/17/2025	15:39	PD088992.D	9.07	3.55
PSTDICC100	PSTDICC100	06/17/2025	15:52	PD088993.D	9.07	3.55
PSTDICC075	PSTDICC075	06/17/2025	16:06	PD088994.D	9.07	3.55
PSTDICC050	PSTDICC050	06/17/2025	16:20	PD088995.D	9.07	3.55
PSTDICC025	PSTDICC025	06/17/2025	16:33	PD088996.D	9.07	3.55
PSTDICC005	PSTDICC005	06/17/2025	16:47	PD088997.D	9.07	3.55
PCHLORICC500	PCHLORICC500	06/17/2025	17:28	PD089000.D	9.07	3.55
PTOXICC500	PTOXICC500	06/17/2025	18:36	PD089005.D	9.07	3.55
I.BLK	I.BLK	07/02/2025	09:28	PD089301.D	9.08	3.56
PEM	PEM	07/02/2025	09:41	PD089302.D	9.07	3.55
PSTDCCC050	PSTDCCC050	07/02/2025	09:55	PD089303.D	9.07	3.55
PB168693BL	PB168693BL	07/02/2025	16:29	PD089304.D	9.08	3.56
PB168693BS	PB168693BS	07/02/2025	17:20	PD089305.D	9.08	3.56
SOIL-PILEMS	Q2475-01MS	07/02/2025	17:47	PD089307.D	9.08	3.55
SOIL-PILEMSD	Q2475-01MSD	07/02/2025	18:00	PD089308.D	9.08	3.55
I.BLK	I.BLK	07/02/2025	18:28	PD089310.D	9.07	3.55
PEM	PEM	07/02/2025	18:41	PD089311.D	9.07	3.55
PSTDCCC050	PSTDCCC050	07/02/2025	18:55	PD089312.D	9.07	3.55
TP-58	Q2484-01	07/02/2025	20:17	PD089317.D	9.09	3.55
TP-57	Q2484-02	07/02/2025	20:31	PD089318.D	9.08	3.55
TP-64	Q2484-03	07/02/2025	20:44	PD089319.D	9.07	3.55
TP-107	Q2484-04	07/02/2025	20:58	PD089320.D	9.07	3.55
TP-106	Q2484-05	07/02/2025	21:12	PD089321.D	9.08	3.55
TP-104	Q2484-06	07/02/2025	21:26	PD089322.D	9.07	3.55
I.BLK	I.BLK	07/02/2025	21:39	PD089323.D	9.07	3.55
PSTDCCC050	PSTDCCC050	07/02/2025	23:01	PD089324.D	9.07	3.55

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Analytical Sequence

Client: CDM Smith **SDG No.:** Q2484

Project: South River WM Replacement **Instrument ID:** ECD_D

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 06/17/2025 06/17/2025

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

CLIENT ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCB RT #	TCX RT #
I.BLK	I.BLK	06/17/2025	15:11	PD088990.D	8.07	2.88
PEM	PEM	06/17/2025	15:25	PD088991.D	8.07	2.88
RESCHK	RESCHK	06/17/2025	15:39	PD088992.D	8.07	2.88
PSTDICC100	PSTDICC100	06/17/2025	15:52	PD088993.D	8.07	2.88
PSTDICC075	PSTDICC075	06/17/2025	16:06	PD088994.D	8.07	2.88
PSTDICC050	PSTDICC050	06/17/2025	16:20	PD088995.D	8.07	2.88
PSTDICC025	PSTDICC025	06/17/2025	16:33	PD088996.D	8.07	2.88
PSTDICC005	PSTDICC005	06/17/2025	16:47	PD088997.D	8.07	2.88
PCHLORICC500	PCHLORICC500	06/17/2025	17:28	PD089000.D	8.07	2.88
PTOXICC500	PTOXICC500	06/17/2025	18:36	PD089005.D	8.07	2.88
I.BLK	I.BLK	07/02/2025	09:28	PD089301.D	8.07	2.88
PEM	PEM	07/02/2025	09:41	PD089302.D	8.07	2.88
PSTDCCC050	PSTDCCC050	07/02/2025	09:55	PD089303.D	8.07	2.88
PB168693BL	PB168693BL	07/02/2025	16:29	PD089304.D	8.07	2.88
PB168693BS	PB168693BS	07/02/2025	17:20	PD089305.D	8.07	2.88
SOIL-PILEMS	Q2475-01MS	07/02/2025	17:47	PD089307.D	8.07	2.88
SOIL-PILEMSD	Q2475-01MSD	07/02/2025	18:00	PD089308.D	8.07	2.88
I.BLK	I.BLK	07/02/2025	18:28	PD089310.D	8.07	2.88
PEM	PEM	07/02/2025	18:41	PD089311.D	8.07	2.88
PSTDCCC050	PSTDCCC050	07/02/2025	18:55	PD089312.D	8.07	2.88
TP-58	Q2484-01	07/02/2025	20:17	PD089317.D	8.07	2.88
TP-57	Q2484-02	07/02/2025	20:31	PD089318.D	8.07	2.88
TP-64	Q2484-03	07/02/2025	20:44	PD089319.D	8.07	2.88
TP-107	Q2484-04	07/02/2025	20:58	PD089320.D	8.07	2.88
TP-106	Q2484-05	07/02/2025	21:12	PD089321.D	8.07	2.88
TP-104	Q2484-06	07/02/2025	21:26	PD089322.D	8.07	2.88
I.BLK	I.BLK	07/02/2025	21:39	PD089323.D	8.07	2.88
PSTDCCC050	PSTDCCC050	07/02/2025	23:01	PD089324.D	8.07	2.88

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PB168693BS

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2484

Lab Sample ID: PB168693BS **Date(s) Analyzed:** 07/02/2025 07/02/2025

Instrument ID (1): ECD_D **Instrument ID (2):** ECD_D

GC Column: (1): ZB-MR1 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
4,4'-DDD	1	6.71	6.66	6.76	17.8	12.5
	2	5.93	5.88	5.98	15.7	
4,4'-DDE	1	6.20	6.15	6.25	15.6	3.8
	2	5.38	5.33	5.43	16.2	
4,4'-DDT	1	7.03	6.98	7.08	14.6	0
	2	6.18	6.13	6.23	14.6	
alpha-BHC	1	4.01	3.96	4.06	16.2	2.4
	2	3.39	3.34	3.44	16.6	
Aldrin	1	5.28	5.23	5.33	16.4	1.2
	2	4.37	4.32	4.42	16.2	
alpha-Chlordane	1	6.03	5.98	6.08	16.2	1.9
	2	5.19	5.14	5.24	15.9	
Endosulfan II	1	6.79	6.74	6.84	15.8	1.3
	2	6.08	6.03	6.13	16.0	
Endosulfan sulfate	1	7.16	7.11	7.21	15.8	1.3
	2	6.48	6.43	6.53	15.6	
beta-BHC	1	4.52	4.47	4.57	15.8	0.6
	2	4.03	3.98	4.08	15.7	
delta-BHC	1	4.77	4.72	4.82	17.6	8.3
	2	4.26	4.21	4.31	16.2	
Endosulfan I	1	6.08	6.03	6.13	16.4	13
	2	5.25	5.20	5.30	14.4	
Dieldrin	1	6.35	6.30	6.40	16.4	1.8
	2	5.51	5.46	5.56	16.1	
Endrin aldehyde	1	6.92	6.87	6.97	16.2	0.6
	2	6.26	6.21	6.31	16.1	
Methoxychlor	1	7.50	7.45	7.55	14.9	0.7
	2	6.76	6.71	6.81	15.0	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PB168693BS

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2484

Lab Sample ID: PB168693BS **Date(s) Analyzed:** 07/02/2025 07/02/2025

Instrument ID (1): ECD_D **Instrument ID (2):** ECD_D

GC Column: (1): ZB-MR1 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
Endrin ketone	1	7.64	7.59	7.69	16.1	3.7
	2	6.99	6.94	7.04	16.7	
gamma-BHC (Lindane)	1	4.34	4.29	4.39	16.3	1.9
	2	3.73	3.68	3.78	16.0	
Heptachlor	1	4.94	4.89	4.99	15.9	1.9
	2	4.08	4.03	4.13	15.6	
Heptachlor epoxide	1	5.70	5.65	5.75	16.0	2.5
	2	4.87	4.82	4.92	16.4	
gamma-Chlordane	1	5.95	5.90	6.00	16.2	1.9
	2	5.12	5.07	5.17	15.9	
Endrin	1	6.58	6.53	6.63	15.6	10.9
	2	5.79	5.74	5.84	17.4	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.
SOIL-PILEMS

Lab Name: Alliance
Contract: CAMP02
Lab Code: ACE
SDG NO.: Q2484
Lab Sample ID: Q2475-01MS
Date(s) Analyzed: 07/02/2025 07/02/2025
Instrument ID (1): ECD_D
Instrument ID (2): ECD_D
GC Column: (1): ZB-MR1 **ID:** 0.32 (mm)
GC Column:(2): ZB-MR2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
4,4'-DDD	1	6.70	6.65	6.75	20.8	24.9
	2	5.93	5.88	5.98	16.2	
4,4'-DDT	1	7.02	6.97	7.07	17.4	3.5
	2	6.18	6.13	6.23	16.8	
Aldrin	1	5.27	5.22	5.32	19.9	6.8
	2	4.37	4.32	4.42	18.6	
4,4'-DDE	1	6.20	6.15	6.25	15.3	23.1
	2	5.37	5.32	5.42	19.3	
Endosulfan II	1	6.79	6.74	6.84	18.0	3.3
	2	6.08	6.03	6.13	18.6	
Endrin aldehyde	1	6.92	6.87	6.97	18.4	1.1
	2	6.26	6.21	6.31	18.6	
Endosulfan sulfate	1	7.15	7.10	7.20	17.5	1.7
	2	6.48	6.43	6.53	17.2	
Methoxychlor	1	7.49	7.44	7.54	15.4	4
	2	6.75	6.70	6.80	14.8	
Endrin ketone	1	7.63	7.58	7.68	17.2	6.6
	2	6.99	6.94	7.04	16.1	
alpha-BHC	1	4.00	3.95	4.05	18.6	1.6
	2	3.39	3.34	3.44	18.9	
gamma-BHC (Lindane)	1	4.33	4.28	4.38	20.2	6.6
	2	3.73	3.68	3.78	18.9	
Heptachlor	1	4.93	4.88	4.98	19.3	1.6
	2	4.08	4.03	4.13	19.0	
beta-BHC	1	4.52	4.47	4.57	15.0	31
	2	4.03	3.98	4.08	20.5	
delta-BHC	1	4.76	4.71	4.81	20.3	8.2
	2	4.26	4.21	4.31	18.7	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

SOIL-PILEMS

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2484

Lab Sample ID: Q2475-01MS **Date(s) Analyzed:** 07/02/2025 07/02/2025

Instrument ID (1): ECD_D **Instrument ID (2):** ECD_D

GC Column: (1): ZB-MR1 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
Heptachlor epoxide	1	5.69	5.64	5.74	18.4	9.3
	2	4.87	4.82	4.92	20.2	
Endosulfan I	1	6.08	6.03	6.13	20.0	0
	2	5.25	5.20	5.30	20.0	
gamma-Chlordane	1	5.95	5.90	6.00	21.6	10.2
	2	5.12	5.07	5.17	19.5	
alpha-Chlordane	1	6.03	5.98	6.08	22.5	2.2
	2	5.19	5.14	5.24	22.0	
Dieldrin	1	6.35	6.30	6.40	18.6	12.1
	2	5.51	5.46	5.56	21.0	
Endrin	1	6.58	6.53	6.63	18.2	2.2
	2	5.79	5.74	5.84	18.6	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

SOIL-PILEMSD

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2484

Lab Sample ID: Q2475-01MSD **Date(s) Analyzed:** 07/02/2025 07/02/2025

Instrument ID (1): ECD_D **Instrument ID (2):** ECD_D

GC Column: (1): ZB-MR1 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
Endosulfan II	1	6.79	6.74	6.84	17.7	3.9
	2	6.08	6.03	6.13	18.4	
4,4'-DDD	1	6.70	6.65	6.75	21.4	27.1
	2	5.93	5.88	5.98	16.3	
4,4'-DDT	1	7.02	6.97	7.07	16.2	2.5
	2	6.18	6.13	6.23	15.8	
Endrin aldehyde	1	6.92	6.87	6.97	18.0	1.1
	2	6.26	6.21	6.31	17.8	
Endosulfan sulfate	1	7.15	7.10	7.20	17.3	2.3
	2	6.48	6.43	6.53	16.9	
Methoxychlor	1	7.49	7.44	7.54	15.9	10.6
	2	6.75	6.70	6.80	14.3	
Endrin ketone	1	7.63	7.58	7.68	17.3	8.4
	2	6.99	6.94	7.04	15.9	
alpha-BHC	1	4.00	3.95	4.05	18.7	0
	2	3.39	3.34	3.44	18.7	
gamma-BHC (Lindane)	1	4.33	4.28	4.38	19.8	5.7
	2	3.73	3.68	3.78	18.7	
Heptachlor	1	4.93	4.88	4.98	18.4	1.1
	2	4.08	4.03	4.13	18.2	
Aldrin	1	5.27	5.22	5.32	19.3	4.2
	2	4.37	4.32	4.42	18.5	
beta-BHC	1	4.52	4.47	4.57	15.3	28.6
	2	4.03	3.98	4.08	20.4	
delta-BHC	1	4.76	4.71	4.81	20.0	7.8
	2	4.26	4.21	4.31	18.5	
Heptachlor epoxide	1	5.69	5.64	5.74	18.2	10.9
	2	4.87	4.82	4.92	20.3	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

SOIL-PILEMSD

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2484

Lab Sample ID: Q2475-01MSD **Date(s) Analyzed:** 07/02/2025 07/02/2025

Instrument ID (1): ECD_D **Instrument ID (2):** ECD_D

GC Column: (1): ZB-MR1 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
Endosulfan I	1	6.07	6.02	6.12	20.1	0.5
	2	5.25	5.20	5.30	20.2	
gamma-Chlordane	1	5.95	5.90	6.00	19.3	3.7
	2	5.12	5.07	5.17	18.6	
alpha-Chlordane	1	6.03	5.98	6.08	22.2	1.4
	2	5.19	5.14	5.24	21.9	
4,4'-DDE	1	6.20	6.15	6.25	15.0	24
	2	5.38	5.33	5.43	19.1	
Dieldrin	1	6.35	6.30	6.40	18.4	12.7
	2	5.51	5.46	5.56	20.9	
Endrin	1	6.57	6.52	6.62	17.8	4.9
	2	5.79	5.74	5.84	18.7	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

TP-58

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2484

Lab Sample ID: Q2484-01 **Date(s) Analyzed:** 07/02/2025 07/02/2025

Instrument ID (1): ECD_D **Instrument ID (2):** ECD_D

GC Column: (1): ZB-MR1 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
Dieldrin	1	6.35	6.30	6.40	1.10	146.3
	2	5.51	5.46	5.56	7.10	
Endrin	1	6.58	6.53	6.63	1.30	26.7
	2	5.78	5.73	5.83	1.70	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

TP-64

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2484

Lab Sample ID: Q2484-03 **Date(s) Analyzed:** 07/02/2025 07/02/2025

Instrument ID (1): ECD_D **Instrument ID (2):** ECD_D

GC Column: (1): ZB-MR1 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
gamma-Chlordane	1	5.94	5.89	5.99	0.33	36.7
	2	5.13	5.08	5.18	0.23	
alpha-Chlordane	1	6.03	5.98	6.08	0.40	42.3
	2	5.19	5.14	5.24	0.26	

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LAB CHRONICLE

OrderID:	Q2484	**OrderDate:**	7/2/2025 9:23:00 AM
Client:	CDM Smith	**Project:**	South River WM Replacement
Contact:	Marcie Ann Encinas	**Location:**	--Select--,A12,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2484-01	**TP-58**	**SOIL**			**07/01/25**			**07/01/25**
			Diesel Range Organics	8015D		07/02/25	07/03/25	
			Gasoline Range Organics	8015D			07/03/25	
			Herbicide	8151A		07/02/25	07/07/25	
			PCB	8082A		07/02/25	07/02/25	
			Pesticide-TCL	8081B		07/02/25	07/02/25	
Q2484-02	**TP-57**	**SOIL**			**07/01/25**			**07/01/25**
			Diesel Range Organics	8015D		07/02/25	07/02/25	
			Gasoline Range Organics	8015D			07/03/25	
			Herbicide	8151A		07/02/25	07/07/25	
			PCB	8082A		07/02/25	07/02/25	
			Pesticide-TCL	8081B		07/02/25	07/02/25	
Q2484-03	**TP-64**	**SOIL**			**07/01/25**			**07/01/25**
			Diesel Range Organics	8015D		07/02/25	07/03/25	
			Gasoline Range Organics	8015D			07/03/25	
			Herbicide	8151A		07/02/25	07/10/25	
			PCB	8082A		07/02/25	07/02/25	
			Pesticide-TCL	8081B		07/02/25	07/02/25	
Q2484-04	**TP-107**	**SOIL**			**07/01/25**			**07/01/25**
			Diesel Range Organics	8015D		07/02/25	07/02/25	
			Gasoline Range Organics	8015D			07/08/25	
			Herbicide	8151A		07/02/25	07/07/25	
			PCB	8082A		07/02/25	07/02/25	
			Pesticide-TCL	8081B		07/02/25	07/02/25	
Q2484-05	**TP-106**	**SOIL**			**07/01/25**			**07/01/25**
			Diesel Range Organics	8015D		07/02/25	07/02/25	
			Gasoline Range Organics	8015D			07/03/25	

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LAB CHRONICLE

			Herbicide	8151A		07/02/25	07/08/25
			PCB	8082A		07/02/25	07/02/25
			Pesticide-TCL	8081B		07/02/25	07/02/25
Q2484-06	**TP-104**	**SOIL**			**07/01/25**		**07/01/25**
			Diesel Range Organics	8015D		07/02/25	07/02/25
			Gasoline Range Organics	8015D			07/03/25
			Herbicide	8151A		07/02/25	07/08/25
			PCB	8082A		07/02/25	07/02/25
			Pesticide-TCL	8081B		07/02/25	07/02/25

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Hit Summary Sheet
SW-846

SDG No.: Q2484 **Order ID:** Q2484

Client: CDM Smith **Project ID:** South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units

Client ID :

Total Concentration: **0.000**

SAMPLE DATA

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-58	SDG No.:	Q2484
Lab Sample ID:	Q2484-01	Matrix:	SOIL
Analytical Method:	8151A	% Solid:	86.2 Decanted:
Sample Wt/Vol:	30.02 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030934.D	1	07/02/25 11:30	07/07/25 22:25	PB168706

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	9.00	U	9.00	77.7	ug/Kg
120-36-5	DICHLORPROP	14.8	U	14.8	77.7	ug/Kg
94-75-7	2,4-D	10.5	U	10.5	77.7	ug/Kg
93-72-1	2,4,5-TP (Silvex)	10.5	U	10.5	77.7	ug/Kg
93-76-5	2,4,5-T	10.1	U	10.1	77.7	ug/Kg
94-82-6	2,4-DB	28.1	U	28.1	77.7	ug/Kg
88-85-7	DINOSEB	12.5	U	12.5	77.7	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	274		10 - 141	55%	SPK: 500

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-57	SDG No.:	Q2484
Lab Sample ID:	Q2484-02	Matrix:	SOIL
Analytical Method:	8151A	% Solid:	86 Decanted:
Sample Wt/Vol:	30.05 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030935.D	1	07/02/25 11:30	07/07/25 22:49	PB168706

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	9.00	U	9.00	77.8	ug/Kg
120-36-5	DICHLORPROP	14.9	U	14.9	77.8	ug/Kg
94-75-7	2,4-D	10.5	U	10.5	77.8	ug/Kg
93-72-1	2,4,5-TP (Silvex)	10.5	U	10.5	77.8	ug/Kg
93-76-5	2,4,5-T	10.1	U	10.1	77.8	ug/Kg
94-82-6	2,4-DB	28.1	U	28.1	77.8	ug/Kg
88-85-7	DINOSEB	12.5	U	12.5	77.8	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	304		10 - 141	61%	SPK: 500

Comments:

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* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-64	SDG No.:	Q2484
Lab Sample ID:	Q2484-03	Matrix:	SOIL
Analytical Method:	8151A	% Solid:	88.4 Decanted:
Sample Wt/Vol:	30.08 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030988.D	1	07/02/25 11:30	07/10/25 16:06	PB168706

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	8.70	U	8.70	75.6	ug/Kg
120-36-5	DICHLORPROP	14.4	U	14.4	75.6	ug/Kg
94-75-7	2,4-D	10.2	U	10.2	75.6	ug/Kg
93-72-1	2,4,5-TP (Silvex)	10.2	U	10.2	75.6	ug/Kg
93-76-5	2,4,5-T	9.80	U	9.80	75.6	ug/Kg
94-82-6	2,4-DB	27.3	U	27.3	75.6	ug/Kg
88-85-7	DINOSEB	12.2	U	12.2	75.6	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	96.8		10 - 141	19%	SPK: 500

Comments:

U = Not Detected
LOQ = Limit of Quantitation
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LOD = Limit of Detection
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M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	CDM Smith		Date Collected:	07/01/25	
Project:	South River WM Replacement		Date Received:	07/01/25	
Client Sample ID:	TP-107		SDG No.:	Q2484	
Lab Sample ID:	Q2484-04		Matrix:	SOIL	
Analytical Method:	8151A		% Solid:	83.8	Decanted:
Sample Wt/Vol:	30.04	Units: g	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	Herbicide	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	8151A				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030937.D	1	07/02/25 11:30	07/07/25 23:37	PB168706

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	9.20	U	9.20	79.8	ug/Kg
120-36-5	DICHLORPROP	15.3	U	15.3	79.8	ug/Kg
94-75-7	2,4-D	10.8	U	10.8	79.8	ug/Kg
93-72-1	2,4,5-TP (Silvex)	10.8	U	10.8	79.8	ug/Kg
93-76-5	2,4,5-T	10.4	U	10.4	79.8	ug/Kg
94-82-6	2,4-DB	28.8	U	28.8	79.8	ug/Kg
88-85-7	DINOSEB	12.9	U	12.9	79.8	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	437		10 - 141	87%	SPK: 500

Comments:

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LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
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Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-106	SDG No.:	Q2484
Lab Sample ID:	Q2484-05	Matrix:	SOIL
Analytical Method:	8151A	% Solid:	87.9 Decanted:
Sample Wt/Vol:	30.07 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030938.D	1	07/02/25 11:30	07/08/25 00:01	PB168706

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	8.80	U	8.80	76.0	ug/Kg
120-36-5	DICHLORPROP	14.5	U	14.5	76.0	ug/Kg
94-75-7	2,4-D	10.3	U	10.3	76.0	ug/Kg
93-72-1	2,4,5-TP (Silvex)	10.3	U	10.3	76.0	ug/Kg
93-76-5	2,4,5-T	9.90	U	9.90	76.0	ug/Kg
94-82-6	2,4-DB	27.5	U	27.5	76.0	ug/Kg
88-85-7	DINOSEB	12.3	U	12.3	76.0	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	607		10 - 141	121%	SPK: 500

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	CDM Smith		Date Collected:	07/01/25	
Project:	South River WM Replacement		Date Received:	07/01/25	
Client Sample ID:	TP-104		SDG No.:	Q2484	
Lab Sample ID:	Q2484-06		Matrix:	SOIL	
Analytical Method:	8151A		% Solid:	87.3	Decanted:
Sample Wt/Vol:	30.03	Units: g	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	Herbicide	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	8151A				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030939.D	1	07/02/25 11:30	07/08/25 00:25	PB168706

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	8.90	U	8.90	76.7	ug/Kg
120-36-5	DICHLORPROP	14.6	U	14.6	76.7	ug/Kg
94-75-7	2,4-D	10.3	U	10.3	76.7	ug/Kg
93-72-1	2,4,5-TP (Silvex)	10.4	U	10.4	76.7	ug/Kg
93-76-5	2,4,5-T	10.0	U	10.0	76.7	ug/Kg
94-82-6	2,4-DB	27.7	U	27.7	76.7	ug/Kg
88-85-7	DINOSEB	12.4	U	12.4	76.7	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	395		10 - 141	79%	SPK: 500

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

QC SUMMARY

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Surrogate Summary

SDG No.: Q2484

Client: CDM Smith

Analytical Method: 8151A

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Recovery(%)	Qual	Limits(%) Low	Limits(%) High
I.BLK-PS030738.D	PIBLK-PS030738.D	2,4-DCAA	1	500	414	83		61	136
		2,4-DCAA	2	500	487	97		61	136
I.BLK-PS030931.D	PIBLK-PS030931.D	2,4-DCAA	1	500	470	94		61	136
		2,4-DCAA	2	500	497	99		61	136
Q2484-01	TP-58	2,4-DCAA	1	500	263	53		10	141
		2,4-DCAA	2	500	274	55		10	141
Q2484-02	TP-57	2,4-DCAA	1	500	304	61		10	141
		2,4-DCAA	2	500	285	57		10	141
Q2484-04	TP-107	2,4-DCAA	1	500	385	77		10	141
		2,4-DCAA	2	500	437	87		10	141
Q2484-05	TP-106	2,4-DCAA	1	500	514	103		10	141
		2,4-DCAA	2	500	607	121		10	141
Q2484-06	TP-104	2,4-DCAA	1	500	363	73		10	141
		2,4-DCAA	2	500	395	79		10	141
I.BLK-PS030940.D	PIBLK-PS030940.D	2,4-DCAA	1	500	472	94		61	136
		2,4-DCAA	2	500	494	99		61	136
I.BLK-PS030943.D	PIBLK-PS030943.D	2,4-DCAA	1	500	481	96		61	136
		2,4-DCAA	2	500	497	99		61	136
PB168706BL	PB168706BL	2,4-DCAA	1	500	452	90		10	141
		2,4-DCAA	2	500	489	98		10	141
Q2458-01MS	TP-76MS	2,4-DCAA	1	500	341	68		10	141
		2,4-DCAA	2	500	375	75		10	141
Q2458-01MSD	TP-76MSD	2,4-DCAA	1	500	347	69		10	141
		2,4-DCAA	2	500	378	76		10	141
I.BLK-PS030955.D	PIBLK-PS030955.D	2,4-DCAA	1	500	455	91		61	136
		2,4-DCAA	2	500	469	94		61	136
I.BLK-PS030958.D	PIBLK-PS030958.D	2,4-DCAA	1	500	456	91		61	136
		2,4-DCAA	2	500	462	92		61	136
PB168706BS	PB168706BS	2,4-DCAA	1	500	538	108		10	141
		2,4-DCAA	2	500	503	101		10	141
I.BLK-PS030966.D	PIBLK-PS030966.D	2,4-DCAA	1	500	449	90		61	136
		2,4-DCAA	2	500	467	93		61	136
I.BLK-PS030979.D	PIBLK-PS030979.D	2,4-DCAA	1	500	474	95		61	136
		2,4-DCAA	2	500	473	95		61	136
Q2484-03	TP-64	2,4-DCAA	1	500	96.8	19		10	141
		2,4-DCAA	2	500	96.2	19		10	141
I.BLK-PS030989.D	PIBLK-PS030989.D	2,4-DCAA	1	500	476	95		61	136
		2,4-DCAA	2	500	476	95		61	136

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2484 **Analytical Method:** 8151A

Client: CDM Smith **DataFile :** PS030949.D

	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID:	**Q2458-01MS (Column 1)**	**Client Sample ID:**		**TP-76MS**								
	DICAMBA	183.4	0	86.9	ug/Kg	47				10	112	
	DICHLORPROP	183.4	0	95.6	ug/Kg	52				10	113	
	2,4-D	183.4	0	138	ug/Kg	75				10	144	
	2,4,5-TP(Silvex)	183.4	0	95.3	ug/Kg	52				10	114	
	2,4,5-T	183.4	0	99.8	ug/Kg	54				10	115	
	2,4-DB	183.4	0	97.1	ug/Kg	53				10	140	
	Dinoseb	183.4	0	0	ug/Kg	0	*			10	118	
Lab Sample ID:	**Q2458-01MS (Column 2)**	**Client Sample ID:**		**TP-76MS**								
	DICAMBA	183.4	0	84.8	ug/Kg	46				10	112	
	DICHLORPROP	183.4	0	103	ug/Kg	56				10	113	
	2,4-D	183.4	0	94.4	ug/Kg	51				10	144	
	2,4,5-TP(Silvex)	183.4	0	97.3	ug/Kg	53				10	114	
	2,4,5-T	183.4	0	91.0	ug/Kg	50				10	115	
	2,4-DB	183.4	0	85.1	ug/Kg	46				10	140	
	Dinoseb	183.4	0	0	ug/Kg	0	*			10	118	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2484 **Analytical Method:** 8151A

Client: CDM Smith **DataFile :** PS030950.D

	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID:	**Q2458-01MSD (Column 1)**	**Client Sample ID:**		**TP-76MSD**								
	DICAMBA	183.6	0	88.8	ug/Kg	48		2		10	112	20
	DICHLORPROP	183.6	0	95.0	ug/Kg	52		0		10	113	20
	2,4-D	183.6	0	139	ug/Kg	76		1		10	144	20
	2,4,5-TP(Silvex)	183.6	0	95.9	ug/Kg	52		0		10	114	20
	2,4,5-T	183.6	0	101	ug/Kg	55		2		10	115	20
	2,4-DB	183.6	0	95.5	ug/Kg	52		2		10	140	20
	Dinoseb	183.6	0	0	ug/Kg	0	*	0		10	118	20
Lab Sample ID:	**Q2458-01MSD (Column 2)**	**Client Sample ID:**		**TP-76MSD**								
	DICAMBA	183.6	0	86.3	ug/Kg	47		2		10	112	20
	DICHLORPROP	183.6	0	99.3	ug/Kg	54		4		10	113	20
	2,4-D	183.6	0	95.4	ug/Kg	52		2		10	144	20
	2,4,5-TP(Silvex)	183.6	0	96.8	ug/Kg	53		0		10	114	20
	2,4,5-T	183.6	0	90.4	ug/Kg	49		2		10	115	20
	2,4-DB	183.6	0	98.8	ug/Kg	54		16		10	140	20
	Dinoseb	183.6	0	0	ug/Kg	0	*	0		10	118	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2484 **Analytical Method:** 8151A

Client: CDM Smith **Datafile :** PS030965.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB168706BS (Column 1)	DICAMBA	166.5	171	ug/Kg	103				72	129	
	DICHLORPROP	166.5	163	ug/Kg	98				77	135	
	2,4-D	166.5	184	ug/Kg	111				65	144	
	2,4,5-TP(Silvex)	166.5	176	ug/Kg	106				74	146	
	2,4,5-T	166.5	183	ug/Kg	110				77	134	
	2,4-DB	166.5	192	ug/Kg	115				72	122	
	Dinoseb	166.5	170	ug/Kg	102				74	132	
PB168706BS (Column 2)	DICAMBA	166.5	161	ug/Kg	97				72	129	
	DICHLORPROP	166.5	159	ug/Kg	95				77	135	
	2,4-D	166.5	153	ug/Kg	92				65	144	
	2,4,5-TP(Silvex)	166.5	167	ug/Kg	100				74	146	
	2,4,5-T	166.5	167	ug/Kg	100				77	134	
	2,4-DB	166.5	161	ug/Kg	97				72	122	
	Dinoseb	166.5	155	ug/Kg	93				74	132	

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4C

PESTICIDE METHOD BLANK SUMMARY

Client ID: PB168706BL

Lab Name: Alliance | Contract: CAMP02

Lab Code: ACE | SDG NO.: Q2484

Lab Sample ID: PB168706BL | Lab File ID: PS030947.D

Matrix: (soil/water) Solid | Extraction: (Type) SOXH

Sulfur Cleanup: (Y/N) N | Date Extracted: 07/02/2025

Date Analyzed (1): 07/08/2025 | Date Analyzed (2): 07/08/2025

Time Analyzed (1): 12:19 | Time Analyzed (2): 12:19

Instrument ID (1): ECD_S | Instrument ID (2): ECD_S

GC Column (1): RTX-CLP ID: 0.32 (mm) | GC Column (2): RTX-CLP2 ID: 0.32 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED 1	DATE ANALYZED 2
TP-58	Q2484-01	PS030934.D	07/07/2025	07/07/2025
TP-57	Q2484-02	PS030935.D	07/07/2025	07/07/2025
TP-107	Q2484-04	PS030937.D	07/07/2025	07/07/2025
TP-106	Q2484-05	PS030938.D	07/08/2025	07/08/2025
TP-104	Q2484-06	PS030939.D	07/08/2025	07/08/2025
TP-76MS	Q2458-01MS	PS030949.D	07/08/2025	07/08/2025
TP-76MSD	Q2458-01MSD	PS030950.D	07/08/2025	07/08/2025
PB168706BS	PB168706BS	PS030965.D	07/09/2025	07/09/2025
TP-64	Q2484-03	PS030988.D	07/10/2025	07/10/2025

COMMENTS:

QC SAMPLE DATA

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168706BL	SDG No.:	Q2484
Lab Sample ID:	PB168706BL	Matrix:	SOIL
Analytical Method:	8151A	% Solid:	100 Decanted:
Sample Wt/Vol:	30.01 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030947.D	1	07/02/25 11:30	07/08/25 12:19	PB168706

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	7.70	U	7.70	67.0	ug/Kg
120-36-5	DICHLORPROP	12.8	U	12.8	67.0	ug/Kg
94-75-7	2,4-D	9.00	U	9.00	67.0	ug/Kg
93-72-1	2,4,5-TP (Silvex)	9.10	U	9.10	67.0	ug/Kg
93-76-5	2,4,5-T	8.70	U	8.70	67.0	ug/Kg
94-82-6	2,4-DB	24.2	U	24.2	67.0	ug/Kg
88-85-7	DINOSEB	10.8	U	10.8	67.0	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	489		10 - 141	98%	SPK: 500

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/18/25
Project:	South River WM Replacement	Date Received:	06/18/25
Client Sample ID:	PIBLK-PS030738.D	SDG No.:	Q2484
Lab Sample ID:	I.BLK-PS030738.D	Matrix:	WATER
Analytical Method:	8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030738.D	1		06/18/25	PS061825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1918-00-9	DICAMBA	0.65	U	0.65	2.00	ug/L
120-36-5	DICHLORPROP	0.76	U	0.76	2.00	ug/L
94-75-7	2,4-D	0.92	U	0.92	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.78	U	0.78	2.00	ug/L
93-76-5	2,4,5-T	0.71	U	0.71	2.00	ug/L
94-82-6	2,4-DB	0.65	U	0.65	2.00	ug/L
88-85-7	DINOSEB	0.89	U	0.89	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	487		61 - 136	97%	SPK: 500

Comments:

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M = MS/MSD acceptance criteria did not meet requirements

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B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/07/25
Client Sample ID:	PIBLK-PS030931.D	SDG No.:	Q2484
Lab Sample ID:	I.BLK-PS030931.D	Matrix:	WATER
Analytical Method:	8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030931.D	1		07/07/25	PS070725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1918-00-9	DICAMBA	0.65	U	0.65	2.00	ug/L
120-36-5	DICHLORPROP	0.76	U	0.76	2.00	ug/L
94-75-7	2,4-D	0.92	U	0.92	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.78	U	0.78	2.00	ug/L
93-76-5	2,4,5-T	0.71	U	0.71	2.00	ug/L
94-82-6	2,4-DB	0.65	U	0.65	2.00	ug/L
88-85-7	DINOSEB	0.89	U	0.89	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	497		61 - 136	99%	SPK: 500

Comments:

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LOD = Limit of Detection
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Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/08/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	PIBLK-PS030940.D	SDG No.:	Q2484
Lab Sample ID:	I.BLK-PS030940.D	Matrix:	WATER
Analytical Method:	8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030940.D	1		07/08/25	PS070725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1918-00-9	DICAMBA	0.65	U	0.65	2.00	ug/L
120-36-5	DICHLORPROP	0.76	U	0.76	2.00	ug/L
94-75-7	2,4-D	0.92	U	0.92	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.78	U	0.78	2.00	ug/L
93-76-5	2,4,5-T	0.71	U	0.71	2.00	ug/L
94-82-6	2,4-DB	0.65	U	0.65	2.00	ug/L
88-85-7	DINOSEB	0.89	U	0.89	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	494		61 - 136	99%	SPK: 500

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/08/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	PIBLK-PS030943.D	SDG No.:	Q2484
Lab Sample ID:	I.BLK-PS030943.D	Matrix:	WATER
Analytical Method:	8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030943.D	1		07/08/25	PS070825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1918-00-9	DICAMBA	0.65	U	0.65	2.00	ug/L
120-36-5	DICHLORPROP	0.76	U	0.76	2.00	ug/L
94-75-7	2,4-D	0.92	U	0.92	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.78	U	0.78	2.00	ug/L
93-76-5	2,4,5-T	0.71	U	0.71	2.00	ug/L
94-82-6	2,4-DB	0.65	U	0.65	2.00	ug/L
88-85-7	DINOSEB	0.89	U	0.89	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	497		61 - 136	99%	SPK: 500

Comments:

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MDL = Method Detection Limit
LOD = Limit of Detection
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J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/08/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	PIBLK-PS030955.D	SDG No.:	Q2484
Lab Sample ID:	I.BLK-PS030955.D	Matrix:	WATER
Analytical Method:	8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030955.D	1		07/08/25	ps070825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1918-00-9	DICAMBA	0.65	U	0.65	2.00	ug/L
120-36-5	DICHLORPROP	0.76	U	0.76	2.00	ug/L
94-75-7	2,4-D	0.92	U	0.92	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.78	U	0.78	2.00	ug/L
93-76-5	2,4,5-T	0.71	U	0.71	2.00	ug/L
94-82-6	2,4-DB	0.65	U	0.65	2.00	ug/L
88-85-7	DINOSEB	0.89	U	0.89	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	469		61 - 136	94%	SPK: 500

Comments:

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M = MS/MSD acceptance criteria did not meet requirements

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B = Analyte Found in Associated Method Blank
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D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/09/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	PIBLK-PS030958.D	SDG No.:	Q2484
Lab Sample ID:	I.BLK-PS030958.D	Matrix:	WATER
Analytical Method:	8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030958.D	1		07/09/25	PS070925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1918-00-9	DICAMBA	0.65	U	0.65	2.00	ug/L
120-36-5	DICHLORPROP	0.76	U	0.76	2.00	ug/L
94-75-7	2,4-D	0.92	U	0.92	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.78	U	0.78	2.00	ug/L
93-76-5	2,4,5-T	0.71	U	0.71	2.00	ug/L
94-82-6	2,4-DB	0.65	U	0.65	2.00	ug/L
88-85-7	DINOSEB	0.89	U	0.89	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	462		61 - 136	92%	SPK: 500

Comments:

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Fax : 908 789 8922

Report of Analysis

Client:	CDM Smith	Date Collected:	07/09/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	PIBLK-PS030966.D	SDG No.:	Q2484
Lab Sample ID:	I.BLK-PS030966.D	Matrix:	WATER
Analytical Method:	8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030966.D	1		07/09/25	ps070925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1918-00-9	DICAMBA	0.65	U	0.65	2.00	ug/L
120-36-5	DICHLORPROP	0.76	U	0.76	2.00	ug/L
94-75-7	2,4-D	0.92	U	0.92	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.78	U	0.78	2.00	ug/L
93-76-5	2,4,5-T	0.71	U	0.71	2.00	ug/L
94-82-6	2,4-DB	0.65	U	0.65	2.00	ug/L
88-85-7	DINOSEB	0.89	U	0.89	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	467		61 - 136	93%	SPK: 500

Comments:

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/10/25
Project:	South River WM Replacement	Date Received:	07/10/25
Client Sample ID:	PIBLK-PS030979.D	SDG No.:	Q2484
Lab Sample ID:	I.BLK-PS030979.D	Matrix:	WATER
Analytical Method:	8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030979.D	1		07/10/25	ps071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1918-00-9	DICAMBA	0.65	U	0.65	2.00	ug/L
120-36-5	DICHLORPROP	0.76	U	0.76	2.00	ug/L
94-75-7	2,4-D	0.92	U	0.92	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.78	U	0.78	2.00	ug/L
93-76-5	2,4,5-T	0.71	U	0.71	2.00	ug/L
94-82-6	2,4-DB	0.65	U	0.65	2.00	ug/L
88-85-7	DINOSEB	0.89	U	0.89	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	474		61 - 136	95%	SPK: 500

Comments:

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B = Analyte Found in Associated Method Blank
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Report of Analysis

Client:	CDM Smith	Date Collected:	07/10/25
Project:	South River WM Replacement	Date Received:	07/10/25
Client Sample ID:	PIBLK-PS030989.D	SDG No.:	Q2484
Lab Sample ID:	I.BLK-PS030989.D	Matrix:	WATER
Analytical Method:	8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030989.D	1		07/10/25	ps071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1918-00-9	DICAMBA	0.65	U	0.65	2.00	ug/L
120-36-5	DICHLORPROP	0.76	U	0.76	2.00	ug/L
94-75-7	2,4-D	0.92	U	0.92	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.78	U	0.78	2.00	ug/L
93-76-5	2,4,5-T	0.71	U	0.71	2.00	ug/L
94-82-6	2,4-DB	0.65	U	0.65	2.00	ug/L
88-85-7	DINOSEB	0.89	U	0.89	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	476		61 - 136	95%	SPK: 500

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	CDM Smith		Date Collected:		
Project:	South River WM Replacement		Date Received:		
Client Sample ID:	PB168706BS		SDG No.:	Q2484	
Lab Sample ID:	PB168706BS		Matrix:	SOIL	
Analytical Method:	8151A		% Solid:	100	Decanted:
Sample Wt/Vol:	30.03	Units: g	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	Herbicide	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	8151A				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030965.D	1	07/02/25 11:30	07/09/25 14:04	PB168706

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	171		7.70	66.9	ug/Kg
120-36-5	DICHLORPROP	163		12.8	66.9	ug/Kg
94-75-7	2,4-D	184		9.00	66.9	ug/Kg
93-72-1	2,4,5-TP (Silvex)	176		9.10	66.9	ug/Kg
93-76-5	2,4,5-T	183		8.70	66.9	ug/Kg
94-82-6	2,4-DB	192		24.2	66.9	ug/Kg
88-85-7	DINOSEB	170		10.8	66.9	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	538		10 - 141	108%	SPK: 500

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-76MS	SDG No.:	Q2484
Lab Sample ID:	Q2458-01MS	Matrix:	SOIL
Analytical Method:	8151A	% Solid:	90.6 Decanted:
Sample Wt/Vol:	30.09 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030949.D	1	07/02/25 11:30	07/08/25 13:07	PB168706

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	86.9		8.50	73.7	ug/Kg
120-36-5	DICHLORPROP	103		14.1	73.7	ug/Kg
94-75-7	2,4-D	138		9.90	73.7	ug/Kg
93-72-1	2,4,5-TP (Silvex)	97.3		10.0	73.7	ug/Kg
93-76-5	2,4,5-T	99.8		9.60	73.7	ug/Kg
94-82-6	2,4-DB	97.1		26.6	73.7	ug/Kg
88-85-7	DINOSEB	11.9	U	11.9	73.7	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	375		10 - 141	75%	SPK: 500

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-76MSD	SDG No.:	Q2484
Lab Sample ID:	Q2458-01MSD	Matrix:	SOIL
Analytical Method:	8151A	% Solid:	90.6 Decanted:
Sample Wt/Vol:	30.06 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030950.D	1	07/02/25 11:30	07/08/25 13:32	PB168706

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	88.8		8.50	73.8	ug/Kg
120-36-5	DICHLORPROP	99.3		14.1	73.8	ug/Kg
94-75-7	2,4-D	139		10.0	73.8	ug/Kg
93-72-1	2,4,5-TP (Silvex)	96.8		10.0	73.8	ug/Kg
93-76-5	2,4,5-T	101		9.60	73.8	ug/Kg
94-82-6	2,4-DB	98.8		26.7	73.8	ug/Kg
88-85-7	DINOSEB	11.9	U	11.9	73.8	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	378		10 - 141	76%	SPK: 500

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

CALIBRATION SUMMARY

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RETENTION TIMES OF INITIAL CALIBRATION

Lab Name: Alliance
Lab Code: ACE
Instrument ID: ECD_S
Contract: CAMP02
SDG NO.: Q2484
Calibration Date(s): 06/18/2025 06/18/2025
Calibration Times: 11:25 13:29

GC Column: RTX-CLP ID: 0.32 (mm)

LAB FILE ID: RT 200 = PS030739.D RT 500 = PS030740.D
RT 750 = PS030741.D RT 1000 = PS030742.D RT 1500 = PS030743.D

COMPOUND	RT 200	RT 500	RT 750	RT 1000	RT 1500	MEAN RT	RT WINDOW FROM	RT WINDOW TO
2,4,5-T	9.67	9.67	9.67	9.67	9.67	9.67	9.57	9.77
2,4,5-TP(Silvex)	9.38	9.38	9.38	9.38	9.38	9.38	9.28	9.48
2,4-D	8.49	8.49	8.49	8.49	8.49	8.49	8.39	8.59
2,4-DB	10.25	10.25	10.25	10.25	10.25	10.25	10.15	10.35
2,4-DCAA	7.35	7.35	7.35	7.35	7.35	7.35	7.25	7.45
DICAMBA	7.54	7.54	7.54	7.54	7.54	7.54	7.44	7.64
DICHLORPROP	8.25	8.25	8.25	8.25	8.25	8.25	8.15	8.35
Dinoseb	11.47	11.47	11.47	11.47	11.47	11.47	11.37	11.57

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RETENTION TIMES OF INITIAL CALIBRATION

Lab Name: Alliance
Lab Code: ACE
Instrument ID: ECD_S
Contract: CAMP02
SDG NO.: Q2484
Calibration Date(s): 06/18/2025 06/18/2025
Calibration Times: 11:25 13:29

GC Column: RTX-CLP2 ID: 0.32 (mm)

LAB FILE ID: RT 200 = PS030739.D RT 500 = PS030740.D
RT 750 = PS030741.D RT 1000 = PS030742.D RT 1500 = PS030743.D

COMPOUND	RT 200	RT 500	RT 750	RT 1000	RT 1500	MEAN RT	RT WINDOW FROM	RT WINDOW TO
2,4,5-T	10.36	10.36	10.36	10.36	10.36	10.36	10.26	10.46
2,4,5-TP(Silvex)	9.93	9.93	9.93	9.93	9.93	9.93	9.83	10.03
2,4-D	9.03	9.03	9.03	9.03	9.03	9.03	8.93	9.13
2,4-DB	10.93	10.93	10.93	10.93	10.93	10.93	10.83	11.03
2,4-DCAA	7.77	7.77	7.77	7.77	7.77	7.77	7.67	7.87
DICAMBA	7.97	7.97	7.97	7.97	7.97	7.97	7.87	8.07
DICHLORPROP	8.69	8.69	8.69	8.69	8.69	8.69	8.59	8.79
Dinoseb	11.31	11.31	11.31	11.31	11.31	11.31	11.21	11.41

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Lab Name: Alliance
Lab Code: ACE
Instrument ID: ECD_S

Contract: CAMP02
SDG NO.: Q2484
Calibration Date(s): 06/18/2025 06/18/2025
Calibration Times: 11:25 13:29

GC Column: RTX-CLP **ID:** 0.32 (mm)

LAB FILE ID: CF 200 = PS030739.D CF 500 = PS030740.D
CF 750 = PS030741.D CF 1000 = PS030742.D CF 1500 = PS030743.D

COMPOUND	CF 200	CF 500	CF 750	CF 1000	CF 1500	CF	% RSD
2,4,5-T	17256700000	16680000000	16830000000	16187900000	15311000000	16453200000	5
2,4,5-TP(Silvex)	22282500000	20395400000	19977900000	18863900000	18632300000	20030400000	7
2,4-D	3868070000	3398090000	3305570000	3150720000	3499600000	3444410000	8
2,4-DB	2481600000	2363020000	2407410000	2376040000	1839440000	2293500000	11
2,4-DCAA	4451200000	3788090000	3593380000	3449860000	3089450000	3674390000	14
DICAMBA	17792700000	15914300000	15443300000	14605900000	12319200000	15215100000	13
DICHLORPROP	4637630000	3720970000	3496760000	3281660000	3591790000	3745760000	14
Dinoseb	15211800000	14001800000	13914000000	13244000000	12994300000	13873200000	6

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2484

Instrument ID: ECD_S **Calibration Date(s):** 06/18/2025 06/18/2025

Calibration Times: 11:25 13:29

GC Column: RTX-CLP2 **ID:** 0.32 (mm)

LAB FILE ID: CF 200 = PS030739.D CF 500 = PS030740.D

CF 750 = PS030741.D CF 1000 = PS030742.D CF 1500 = PS030743.D

COMPOUND	CF 200	CF 500	CF 750	CF 1000	CF 1500	CF	% RSD
2,4,5-T	15648900000	14018900000	13695900000	12933300000	12026100000	13664600000	10
2,4,5-TP(Silvex)	16493700000	14706300000	14316500000	13463300000	13163600000	14428700000	9
2,4-D	1965540000	1671750000	1622570000	1523690000	1713470000	1699410000	10
2,4-DB	1373320000	1199380000	1163600000	1108750000	1069470000	1182900000	10
2,4-DCAA	1283250000	1084080000	1050700000	993038000	948747000	1071960000	12
DICAMBA	7304970000	6653080000	6566460000	6277600000	5963960000	6553210000	8
DICHLORPROP	1855180000	1562920000	1498450000	1412800000	1533120000	1572500000	11
Dinoseb	12099400000	10862400000	10728600000	10218500000	9997410000	10781200000	8

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2484

Continuing Calib Date: 07/07/2025 **Initial Calibration Date(s):** 06/18/2025 06/18/2025

Continuing Calib Time: 21:36 **Initial Calibration Time(s):** 11:25 13:29

GC Column: RTX-CLP **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
DICAMBA	7.53	7.54	7.44	7.64	0.01
2,4-DCAA	7.34	7.35	7.25	7.45	0.01
DICHLORPROP	8.24	8.25	8.15	8.35	0.01
2,4-D	8.47	8.49	8.39	8.59	0.02
2,4,5-TP(Silvex)	9.36	9.38	9.28	9.48	0.02
2,4,5-T	9.65	9.67	9.57	9.77	0.02
2,4-DB	10.23	10.25	10.15	10.35	0.02
Dinoseb	11.44	11.47	11.37	11.57	0.03

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2484

Continuing Calib Date: 07/07/2025 **Initial Calibration Date(s):** 06/18/2025 06/18/2025

Continuing Calib Time: 21:36 **Initial Calibration Time(s):** 11:25 13:29

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
DICAMBA	7.97	7.97	7.87	8.07	0.00
2,4-DCAA	7.77	7.77	7.67	7.87	0.00
DICHLORPROP	8.69	8.69	8.59	8.79	0.00
2,4-D	9.02	9.03	8.93	9.13	0.01
2,4,5-TP(Silvex)	9.93	9.93	9.83	10.03	0.00
2,4,5-T	10.36	10.36	10.26	10.46	0.01
2,4-DB	10.92	10.93	10.83	11.03	0.01
Dinoseb	11.31	11.31	11.21	11.41	0.00

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2484

GC Column: RTX-CLP **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 06/18/2025 06/18/2025

Client Sample No.: CCAL01 **Date Analyzed:** 07/07/2025

Lab Sample No.: HSTDCCC750 **Data File :** PS030932.D **Time Analyzed:** 21:36

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	9.652	9.568	9.768	762.650	712.500	7.0
2,4,5-TP(Silvex)	9.358	9.275	9.475	709.800	712.500	-0.4
2,4-D	8.471	8.386	8.586	683.020	705.000	-3.1
2,4-DB	10.229	10.147	10.347	797.070	712.500	11.9
2,4-DCAA	7.336	7.249	7.449	697.140	750.000	-7.0
DICAMBA	7.526	7.439	7.639	684.890	705.000	-2.9
DICHLORPROP	8.239	8.153	8.353	641.940	705.000	-8.9
Dinoseb	11.444	11.366	11.566	693.310	705.000	-1.7

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2484

GC Column: RTX-CLP2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 06/18/2025 06/18/2025

Client Sample No.: CCAL01 **Date Analyzed:** 07/07/2025

Lab Sample No.: HSTDCCC750 **Data File :** PS030932.D **Time Analyzed:** 21:36

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	10.355	10.259	10.459	688.820	712.500	-3.3
2,4,5-TP(Silvex)	9.928	9.833	10.033	680.850	712.500	-4.4
2,4-D	9.024	8.927	9.127	639.250	705.000	-9.3
2,4-DB	10.922	10.827	11.027	673.080	712.500	-5.5
2,4-DCAA	7.766	7.670	7.870	694.830	750.000	-7.4
DICAMBA	7.969	7.872	8.072	671.350	705.000	-4.8
DICHLORPROP	8.688	8.591	8.791	636.650	705.000	-9.7
Dinoseb	11.307	11.211	11.411	651.850	705.000	-7.5

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2484

Continuing Calib Date: 07/08/2025 **Initial Calibration Date(s):** 06/18/2025 06/18/2025

Continuing Calib Time: 01:38 **Initial Calibration Time(s):** 11:25 13:29

GC Column: RTX-CLP **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
DICAMBA	7.53	7.54	7.44	7.64	0.01
2,4-DCAA	7.34	7.35	7.25	7.45	0.01
DICHLORPROP	8.24	8.25	8.15	8.35	0.01
2,4-D	8.47	8.49	8.39	8.59	0.02
2,4,5-TP(Silvex)	9.36	9.38	9.28	9.48	0.02
2,4,5-T	9.65	9.67	9.57	9.77	0.02
2,4-DB	10.23	10.25	10.15	10.35	0.02
Dinoseb	11.44	11.47	11.37	11.57	0.03

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2484

Continuing Calib Date: 07/08/2025 **Initial Calibration Date(s):** 06/18/2025 06/18/2025

Continuing Calib Time: 01:38 **Initial Calibration Time(s):** 11:25 13:29

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
DICAMBA	7.97	7.97	7.87	8.07	0.00
2,4-DCAA	7.77	7.77	7.67	7.87	0.00
DICHLORPROP	8.69	8.69	8.59	8.79	0.00
2,4-D	9.02	9.03	8.93	9.13	0.01
2,4,5-TP(Silvex)	9.93	9.93	9.83	10.03	0.00
2,4,5-T	10.35	10.36	10.26	10.46	0.01
2,4-DB	10.92	10.93	10.83	11.03	0.01
Dinoseb	11.31	11.31	11.21	11.41	0.00

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2484

GC Column: RTX-CLP **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 06/18/2025 06/18/2025

Client Sample No.: CCAL02 **Date Analyzed:** 07/08/2025

Lab Sample No.: HSTDCCC750 **Data File :** PS030941.D **Time Analyzed:** 01:38

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	9.651	9.568	9.768	776.510	712.500	9.0
2,4,5-TP(Silvex)	9.357	9.275	9.475	716.040	712.500	0.5
2,4-D	8.470	8.386	8.586	695.710	705.000	-1.3
2,4-DB	10.227	10.147	10.347	806.190	712.500	13.1
2,4-DCAA	7.336	7.249	7.449	703.920	750.000	-6.1
DICAMBA	7.526	7.439	7.639	686.270	705.000	-2.7
DICHLORPROP	8.238	8.153	8.353	648.310	705.000	-8.0
Dinoseb	11.444	11.366	11.566	685.440	705.000	-2.8

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2484

GC Column: RTX-CLP2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 06/18/2025 06/18/2025

Client Sample No.: CCAL02 **Date Analyzed:** 07/08/2025

Lab Sample No.: HSTDCCC750 **Data File :** PS030941.D **Time Analyzed:** 01:38

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	10.354	10.259	10.459	691.170	712.500	-3.0
2,4,5-TP(Silvex)	9.928	9.833	10.033	682.700	712.500	-4.2
2,4-D	9.023	8.927	9.127	645.590	705.000	-8.4
2,4-DB	10.922	10.827	11.027	665.750	712.500	-6.6
2,4-DCAA	7.766	7.670	7.870	692.550	750.000	-7.7
DICAMBA	7.969	7.872	8.072	673.190	705.000	-4.5
DICHLORPROP	8.688	8.591	8.791	637.580	705.000	-9.6
Dinoseb	11.306	11.211	11.411	636.320	705.000	-9.7

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2484

Continuing Calib Date: 07/08/2025 **Initial Calibration Date(s):** 06/18/2025 06/18/2025

Continuing Calib Time: 09:27 **Initial Calibration Time(s):** 11:25 13:29

GC Column: RTX-CLP **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
DICAMBA	7.53	7.54	7.44	7.64	0.01
2,4-DCAA	7.34	7.35	7.25	7.45	0.01
DICHLORPROP	8.24	8.25	8.15	8.35	0.01
2,4-D	8.47	8.49	8.39	8.59	0.02
2,4,5-TP(Silvex)	9.36	9.38	9.28	9.48	0.02
2,4,5-T	9.65	9.67	9.57	9.77	0.02
2,4-DB	10.23	10.25	10.15	10.35	0.02
Dinoseb	11.44	11.47	11.37	11.57	0.03

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2484

Continuing Calib Date: 07/08/2025 **Initial Calibration Date(s):** 06/18/2025 06/18/2025

Continuing Calib Time: 09:27 **Initial Calibration Time(s):** 11:25 13:29

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
DICAMBA	7.97	7.97	7.87	8.07	0.00
2,4-DCAA	7.77	7.77	7.67	7.87	0.01
DICHLORPROP	8.69	8.69	8.59	8.79	0.00
2,4-D	9.02	9.03	8.93	9.13	0.01
2,4,5-TP(Silvex)	9.93	9.93	9.83	10.03	0.00
2,4,5-T	10.35	10.36	10.26	10.46	0.01
2,4-DB	10.92	10.93	10.83	11.03	0.01
Dinoseb	11.31	11.31	11.21	11.41	0.00

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2484

GC Column: RTX-CLP **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 06/18/2025 06/18/2025

Client Sample No.: CCAL03 **Date Analyzed:** 07/08/2025

Lab Sample No.: HSTDCCC750 **Data File :** PS030944.D **Time Analyzed:** 09:27

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	9.651	9.568	9.768	770.730	712.500	8.2
2,4,5-TP(Silvex)	9.357	9.275	9.475	720.850	712.500	1.2
2,4-D	8.470	8.386	8.586	697.260	705.000	-1.1
2,4-DB	10.227	10.147	10.347	791.680	712.500	11.1
2,4-DCAA	7.336	7.249	7.449	733.720	750.000	-2.2
DICAMBA	7.525	7.439	7.639	690.450	705.000	-2.1
DICHLORPROP	8.238	8.153	8.353	650.710	705.000	-7.7
Dinoseb	11.444	11.366	11.566	691.050	705.000	-2.0

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2484

GC Column: RTX-CLP2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 06/18/2025 06/18/2025

Client Sample No.: CCAL03 **Date Analyzed:** 07/08/2025

Lab Sample No.: HSTDCCC750 **Data File :** PS030944.D **Time Analyzed:** 09:27

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	10.353	10.259	10.459	690.590	712.500	-3.1
2,4,5-TP(Silvex)	9.927	9.833	10.033	686.060	712.500	-3.7
2,4-D	9.022	8.927	9.127	643.990	705.000	-8.7
2,4-DB	10.921	10.827	11.027	675.660	712.500	-5.2
2,4-DCAA	7.765	7.670	7.870	691.710	750.000	-7.8
DICAMBA	7.967	7.872	8.072	676.030	705.000	-4.1
DICHLORPROP	8.686	8.591	8.791	652.190	705.000	-7.5
Dinoseb	11.305	11.211	11.411	642.510	705.000	-8.9

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2484

Continuing Calib Date: 07/08/2025 **Initial Calibration Date(s):** 06/18/2025 06/18/2025

Continuing Calib Time: 16:05 **Initial Calibration Time(s):** 11:25 13:29

GC Column: RTX-CLP **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
DICAMBA	7.53	7.54	7.44	7.64	0.01
2,4-DCAA	7.34	7.35	7.25	7.45	0.01
DICHLORPROP	8.24	8.25	8.15	8.35	0.01
2,4-D	8.47	8.49	8.39	8.59	0.02
2,4,5-TP(Silvex)	9.36	9.38	9.28	9.48	0.02
2,4,5-T	9.65	9.67	9.57	9.77	0.02
2,4-DB	10.23	10.25	10.15	10.35	0.02
Dinoseb	11.45	11.47	11.37	11.57	0.02

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2484

Continuing Calib Date: 07/08/2025 **Initial Calibration Date(s):** 06/18/2025 06/18/2025

Continuing Calib Time: 16:05 **Initial Calibration Time(s):** 11:25 13:29

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
DICAMBA	7.97	7.97	7.87	8.07	0.00
2,4-DCAA	7.77	7.77	7.67	7.87	0.00
DICHLORPROP	8.69	8.69	8.59	8.79	0.00
2,4-D	9.03	9.03	8.93	9.13	0.00
2,4,5-TP(Silvex)	9.94	9.93	9.83	10.03	-0.01
2,4,5-T	10.36	10.36	10.26	10.46	0.00
2,4-DB	10.93	10.93	10.83	11.03	0.00
Dinoseb	11.32	11.31	11.21	11.41	0.00

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2484

GC Column: RTX-CLP **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 06/18/2025 06/18/2025

Client Sample No.: CCAL04 **Date Analyzed:** 07/08/2025

Lab Sample No.: HSTDCCC750 **Data File :** PS030956.D **Time Analyzed:** 16:05

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	9.654	9.568	9.768	763.100	712.500	7.1
2,4,5-TP(Silvex)	9.359	9.275	9.475	711.640	712.500	-0.1
2,4-D	8.473	8.386	8.586	693.790	705.000	-1.6
2,4-DB	10.231	10.147	10.347	786.470	712.500	10.4
2,4-DCAA	7.338	7.249	7.449	797.680	750.000	6.4
DICAMBA	7.527	7.439	7.639	688.250	705.000	-2.4
DICHLORPROP	8.241	8.153	8.353	643.890	705.000	-8.7
Dinoseb	11.449	11.366	11.566	696.870	705.000	-1.2

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2484

GC Column: RTX-CLP2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 06/18/2025 06/18/2025

Client Sample No.: CCAL04 **Date Analyzed:** 07/08/2025

Lab Sample No.: HSTDCCC750 **Data File :** PS030956.D **Time Analyzed:** 16:05

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	10.361	10.259	10.459	683.490	712.500	-4.1
2,4,5-TP(Silvex)	9.935	9.833	10.033	676.910	712.500	-5.0
2,4-D	9.028	8.927	9.127	670.510	705.000	-4.9
2,4-DB	10.929	10.827	11.027	668.780	712.500	-6.1
2,4-DCAA	7.770	7.670	7.870	683.440	750.000	-8.9
DICAMBA	7.973	7.872	8.072	663.860	705.000	-5.8
DICHLORPROP	8.693	8.591	8.791	640.710	705.000	-9.1
Dinoseb	11.315	11.211	11.411	644.320	705.000	-8.6

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2484

Continuing Calib Date: 07/09/2025 **Initial Calibration Date(s):** 06/18/2025 06/18/2025

Continuing Calib Time: 11:36 **Initial Calibration Time(s):** 11:25 13:29

GC Column: RTX-CLP **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
DICAMBA	7.53	7.54	7.44	7.64	0.01
2,4-DCAA	7.34	7.35	7.25	7.45	0.01
DICHLORPROP	8.24	8.25	8.15	8.35	0.01
2,4-D	8.47	8.49	8.39	8.59	0.02
2,4,5-TP(Silvex)	9.36	9.38	9.28	9.48	0.02
2,4,5-T	9.66	9.67	9.57	9.77	0.01
2,4-DB	10.23	10.25	10.15	10.35	0.02
Dinoseb	11.45	11.47	11.37	11.57	0.02

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2484

Continuing Calib Date: 07/09/2025 **Initial Calibration Date(s):** 06/18/2025 06/18/2025

Continuing Calib Time: 11:36 **Initial Calibration Time(s):** 11:25 13:29

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
DICAMBA	7.97	7.97	7.87	8.07	0.00
2,4-DCAA	7.76	7.77	7.67	7.87	0.01
DICHLORPROP	8.69	8.69	8.59	8.79	0.00
2,4-D	9.02	9.03	8.93	9.13	0.01
2,4,5-TP(Silvex)	9.93	9.93	9.83	10.03	0.00
2,4,5-T	10.36	10.36	10.26	10.46	0.00
2,4-DB	10.93	10.93	10.83	11.03	0.00
Dinoseb	11.31	11.31	11.21	11.41	0.00

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2484

GC Column: RTX-CLP **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 06/18/2025 06/18/2025

Client Sample No.: CCAL05 **Date Analyzed:** 07/09/2025

Lab Sample No.: HSTDCCC750 **Data File :** PS030959.D **Time Analyzed:** 11:36

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	9.656	9.568	9.768	725.530	712.500	1.8
2,4,5-TP(Silvex)	9.361	9.275	9.475	678.460	712.500	-4.8
2,4-D	8.474	8.386	8.586	643.260	705.000	-8.8
2,4-DB	10.233	10.147	10.347	758.610	712.500	6.5
2,4-DCAA	7.338	7.249	7.449	683.770	750.000	-8.8
DICAMBA	7.528	7.439	7.639	643.540	705.000	-8.7
DICHLORPROP	8.241	8.153	8.353	643.260	705.000	-8.8
Dinoseb	11.451	11.366	11.566	661.940	705.000	-6.1

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2484

GC Column: RTX-CLP2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 06/18/2025 06/18/2025

Client Sample No.: CCAL05 **Date Analyzed:** 07/09/2025

Lab Sample No.: HSTDCCC750 **Data File :** PS030959.D **Time Analyzed:** 11:36

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	10.357	10.259	10.459	629.350	712.500	-11.7
2,4,5-TP(Silvex)	9.931	9.833	10.033	622.060	712.500	-12.7
2,4-D	9.024	8.927	9.127	614.410	705.000	-12.8
2,4-DB	10.925	10.827	11.027	607.740	712.500	-14.7
2,4-DCAA	7.764	7.670	7.870	694.400	750.000	-7.4
DICAMBA	7.967	7.872	8.072	602.990	705.000	-14.5
DICHLORPROP	8.687	8.591	8.791	588.230	705.000	-16.6
Dinoseb	11.311	11.211	11.411	586.380	705.000	-16.8

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2484

Continuing Calib Date: 07/09/2025 **Initial Calibration Date(s):** 06/18/2025 06/18/2025

Continuing Calib Time: 14:52 **Initial Calibration Time(s):** 11:25 13:29

GC Column: RTX-CLP **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
DICAMBA	7.53	7.54	7.44	7.64	0.01
2,4-DCAA	7.34	7.35	7.25	7.45	0.01
DICHLORPROP	8.24	8.25	8.15	8.35	0.01
2,4-D	8.47	8.49	8.39	8.59	0.02
2,4,5-TP(Silvex)	9.36	9.38	9.28	9.48	0.02
2,4,5-T	9.65	9.67	9.57	9.77	0.02
2,4-DB	10.23	10.25	10.15	10.35	0.02
Dinoseb	11.45	11.47	11.37	11.57	0.02

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2484

Continuing Calib Date: 07/09/2025 **Initial Calibration Date(s):** 06/18/2025 06/18/2025

Continuing Calib Time: 14:52 **Initial Calibration Time(s):** 11:25 13:29

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
DICAMBA	7.97	7.97	7.87	8.07	0.00
2,4-DCAA	7.77	7.77	7.67	7.87	0.00
DICHLORPROP	8.69	8.69	8.59	8.79	0.00
2,4-D	9.03	9.03	8.93	9.13	0.00
2,4,5-TP(Silvex)	9.93	9.93	9.83	10.03	0.00
2,4,5-T	10.36	10.36	10.26	10.46	0.00
2,4-DB	10.93	10.93	10.83	11.03	0.00
Dinoseb	11.31	11.31	11.21	11.41	0.00

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2484

GC Column: RTX-CLP **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 06/18/2025 06/18/2025

Client Sample No.: CCAL06 **Date Analyzed:** 07/09/2025

Lab Sample No.: HSTDCCC750 **Data File :** PS030967.D **Time Analyzed:** 14:52

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	9.653	9.568	9.768	709.820	712.500	-0.4
2,4,5-TP(Silvex)	9.359	9.275	9.475	668.070	712.500	-6.2
2,4-D	8.471	8.386	8.586	643.940	705.000	-8.7
2,4-DB	10.231	10.147	10.347	759.090	712.500	6.5
2,4-DCAA	7.337	7.249	7.449	668.070	750.000	-10.9
DICAMBA	7.526	7.439	7.639	648.820	705.000	-8.0
DICHLORPROP	8.240	8.153	8.353	607.260	705.000	-13.9
Dinoseb	11.447	11.366	11.566	644.130	705.000	-8.6

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2484

GC Column: RTX-CLP2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 06/18/2025 06/18/2025

Client Sample No.: CCAL06 **Date Analyzed:** 07/09/2025

Lab Sample No.: HSTDCCC750 **Data File :** PS030967.D **Time Analyzed:** 14:52

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	10.361	10.259	10.459	635.110	712.500	-10.9
2,4,5-TP(Silvex)	9.934	9.833	10.033	629.760	712.500	-11.6
2,4-D	9.028	8.927	9.127	626.500	705.000	-11.1
2,4-DB	10.929	10.827	11.027	617.890	712.500	-13.3
2,4-DCAA	7.769	7.670	7.870	636.310	750.000	-15.2
DICAMBA	7.972	7.872	8.072	613.280	705.000	-13.0
DICHLORPROP	8.692	8.591	8.791	588.860	705.000	-16.5
Dinoseb	11.313	11.211	11.411	588.950	705.000	-16.5

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2484

Continuing Calib Date: 07/10/2025 **Initial Calibration Date(s):** 06/18/2025 06/18/2025

Continuing Calib Time: 09:48 **Initial Calibration Time(s):** 11:25 13:29

GC Column: RTX-CLP **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
DICAMBA	7.53	7.54	7.44	7.64	0.01
2,4-DCAA	7.34	7.35	7.25	7.45	0.01
DICHLORPROP	8.24	8.25	8.15	8.35	0.01
2,4-D	8.47	8.49	8.39	8.59	0.02
2,4,5-TP(Silvex)	9.36	9.38	9.28	9.48	0.02
2,4,5-T	9.65	9.67	9.57	9.77	0.02
2,4-DB	10.23	10.25	10.15	10.35	0.02
Dinoseb	11.45	11.47	11.37	11.57	0.03

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2484

Continuing Calib Date: 07/10/2025 **Initial Calibration Date(s):** 06/18/2025 06/18/2025

Continuing Calib Time: 09:48 **Initial Calibration Time(s):** 11:25 13:29

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
DICAMBA	7.97	7.97	7.87	8.07	0.00
2,4-DCAA	7.77	7.77	7.67	7.87	0.00
DICHLORPROP	8.69	8.69	8.59	8.79	0.00
2,4-D	9.03	9.03	8.93	9.13	0.00
2,4,5-TP(Silvex)	9.93	9.93	9.83	10.03	0.00
2,4,5-T	10.36	10.36	10.26	10.46	0.00
2,4-DB	10.93	10.93	10.83	11.03	0.00
Dinoseb	11.31	11.31	11.21	11.41	0.00

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2484

GC Column: RTX-CLP **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 06/18/2025 06/18/2025

Client Sample No.: CCAL07 **Date Analyzed:** 07/10/2025

Lab Sample No.: HSTDCCC750 **Data File :** PS030980.D **Time Analyzed:** 09:48

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	9.652	9.568	9.768	767.030	712.500	7.7
2,4,5-TP(Silvex)	9.356	9.275	9.475	706.790	712.500	-0.8
2,4-D	8.470	8.386	8.586	689.810	705.000	-2.2
2,4-DB	10.229	10.147	10.347	835.670	712.500	17.3
2,4-DCAA	7.336	7.249	7.449	701.710	750.000	-6.4
DICAMBA	7.525	7.439	7.639	677.750	705.000	-3.9
DICHLORPROP	8.238	8.153	8.353	639.810	705.000	-9.2
Dinoseb	11.445	11.366	11.566	678.890	705.000	-3.7

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2484

GC Column: RTX-CLP2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 06/18/2025 06/18/2025

Client Sample No.: CCAL07 **Date Analyzed:** 07/10/2025

Lab Sample No.: HSTDCCC750 **Data File :** PS030980.D **Time Analyzed:** 09:48

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	10.360	10.259	10.459	657.200	712.500	-7.8
2,4,5-TP(Silvex)	9.934	9.833	10.033	652.700	712.500	-8.4
2,4-D	9.027	8.927	9.127	643.630	705.000	-8.7
2,4-DB	10.928	10.827	11.027	639.290	712.500	-10.3
2,4-DCAA	7.769	7.670	7.870	654.250	750.000	-12.8
DICAMBA	7.972	7.872	8.072	635.160	705.000	-9.9
DICHLORPROP	8.691	8.591	8.791	616.740	705.000	-12.5
Dinoseb	11.313	11.211	11.411	618.480	705.000	-12.3

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2484

Continuing Calib Date: 07/10/2025 **Initial Calibration Date(s):** 06/18/2025 06/18/2025

Continuing Calib Time: 16:59 **Initial Calibration Time(s):** 11:25 13:29

GC Column: RTX-CLP **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
DICAMBA	7.52	7.54	7.44	7.64	0.02
2,4-DCAA	7.33	7.35	7.25	7.45	0.02
DICHLORPROP	8.24	8.25	8.15	8.35	0.01
2,4-D	8.47	8.49	8.39	8.59	0.02
2,4,5-TP(Silvex)	9.36	9.38	9.28	9.48	0.03
2,4,5-T	9.65	9.67	9.57	9.77	0.02
2,4-DB	10.23	10.25	10.15	10.35	0.02
Dinoseb	11.44	11.47	11.37	11.57	0.03

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2484

Continuing Calib Date: 07/10/2025 **Initial Calibration Date(s):** 06/18/2025 06/18/2025

Continuing Calib Time: 16:59 **Initial Calibration Time(s):** 11:25 13:29

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
DICAMBA	7.97	7.97	7.87	8.07	0.00
2,4-DCAA	7.77	7.77	7.67	7.87	0.00
DICHLORPROP	8.69	8.69	8.59	8.79	0.00
2,4-D	9.03	9.03	8.93	9.13	0.00
2,4,5-TP(Silvex)	9.93	9.93	9.83	10.03	0.00
2,4,5-T	10.36	10.36	10.26	10.46	0.00
2,4-DB	10.93	10.93	10.83	11.03	0.00
Dinoseb	11.31	11.31	11.21	11.41	0.00

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2484

GC Column: RTX-CLP **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 06/18/2025 06/18/2025

Client Sample No.: CCAL08 **Date Analyzed:** 07/10/2025

Lab Sample No.: HSTDCCC750 **Data File :** PS030990.D **Time Analyzed:** 16:59

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	9.650	9.568	9.768	782.090	712.500	9.8
2,4,5-TP(Silvex)	9.355	9.275	9.475	720.380	712.500	1.1
2,4-D	8.469	8.386	8.586	702.820	705.000	-0.3
2,4-DB	10.227	10.147	10.347	848.520	712.500	19.1
2,4-DCAA	7.334	7.249	7.449	718.940	750.000	-4.1
DICAMBA	7.524	7.439	7.639	694.160	705.000	-1.5
DICHLORPROP	8.237	8.153	8.353	649.970	705.000	-7.8
Dinoseb	11.443	11.366	11.566	705.470	705.000	0.1

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2484

GC Column: RTX-CLP2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 06/18/2025 06/18/2025

Client Sample No.: CCAL08 **Date Analyzed:** 07/10/2025

Lab Sample No.: HSTDCCC750 **Data File :** PS030990.D **Time Analyzed:** 16:59

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	10.359	10.259	10.459	678.370	712.500	-4.8
2,4,5-TP(Silvex)	9.932	9.833	10.033	671.710	712.500	-5.7
2,4-D	9.027	8.927	9.127	622.580	705.000	-11.7
2,4-DB	10.927	10.827	11.027	653.050	712.500	-8.3
2,4-DCAA	7.768	7.670	7.870	672.370	750.000	-10.4
DICAMBA	7.971	7.872	8.072	654.990	705.000	-7.1
DICHLORPROP	8.691	8.591	8.791	633.040	705.000	-10.2
Dinoseb	11.312	11.211	11.411	643.930	705.000	-8.7

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Analytical Sequence

Client: CDM Smith **SDG No.:** Q2484

Project: South River WM Replacement **Instrument ID:** ECD_S

GC Column: RTX-CLP **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 06/18/2025 06/18/2025

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

CLIENT ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCAA RT #	RT #
I.BLK	I.BLK	06/18/2025	11:01	PS030738.D	7.35	0.00
HSTDICC200	HSTDICC200	06/18/2025	11:25	PS030739.D	7.35	0.00
HSTDICC500	HSTDICC500	06/18/2025	11:49	PS030740.D	7.35	0.00
HSTDICC750	HSTDICC750	06/18/2025	12:13	PS030741.D	7.35	0.00
HSTDICC1000	HSTDICC1000	06/18/2025	12:37	PS030742.D	7.35	0.00
HSTDICC1500	HSTDICC1500	06/18/2025	13:29	PS030743.D	7.35	0.00
I.BLK	I.BLK	07/07/2025	20:48	PS030931.D	7.34	0.00
HSTDCCC750	HSTDCCC750	07/07/2025	21:36	PS030932.D	7.34	0.00
TP-58	Q2484-01	07/07/2025	22:25	PS030934.D	7.34	0.00
TP-57	Q2484-02	07/07/2025	22:49	PS030935.D	7.34	0.00
TP-107	Q2484-04	07/07/2025	23:37	PS030937.D	7.34	0.00
TP-106	Q2484-05	07/08/2025	00:01	PS030938.D	7.34	0.00
TP-104	Q2484-06	07/08/2025	00:25	PS030939.D	7.34	0.00
I.BLK	I.BLK	07/08/2025	00:50	PS030940.D	7.34	0.00
HSTDCCC750	HSTDCCC750	07/08/2025	01:38	PS030941.D	7.34	0.00
I.BLK	I.BLK	07/08/2025	08:37	PS030943.D	7.34	0.00
HSTDCCC750	HSTDCCC750	07/08/2025	09:27	PS030944.D	7.34	0.00
PB168706BL	PB168706BL	07/08/2025	12:19	PS030947.D	7.34	0.00
TP-76MS	Q2458-01MS	07/08/2025	13:07	PS030949.D	7.34	0.00
TP-76MSD	Q2458-01MSD	07/08/2025	13:32	PS030950.D	7.34	0.00
I.BLK	I.BLK	07/08/2025	15:41	PS030955.D	7.34	0.00
HSTDCCC750	HSTDCCC750	07/08/2025	16:05	PS030956.D	7.34	0.00
I.BLK	I.BLK	07/09/2025	09:32	PS030958.D	7.34	0.00
HSTDCCC750	HSTDCCC750	07/09/2025	11:36	PS030959.D	7.34	0.00
PB168706BS	PB168706BS	07/09/2025	14:04	PS030965.D	7.34	0.00
I.BLK	I.BLK	07/09/2025	14:28	PS030966.D	7.34	0.00
HSTDCCC750	HSTDCCC750	07/09/2025	14:52	PS030967.D	7.34	0.00
I.BLK	I.BLK	07/10/2025	09:24	PS030979.D	7.34	0.00
HSTDCCC750	HSTDCCC750	07/10/2025	09:48	PS030980.D	7.34	0.00
TP-64	Q2484-03	07/10/2025	16:06	PS030988.D	7.34	0.00
I.BLK	I.BLK	07/10/2025	16:34	PS030989.D	7.34	0.00
HSTDCCC750	HSTDCCC750	07/10/2025	16:59	PS030990.D	7.33	0.00

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Analytical Sequence

Client: CDM Smith **SDG No.:** Q2484

Project: South River WM Replacement **Instrument ID:** ECD_S

GC Column: RTX-CLP2 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 06/18/2025 06/18/2025

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

CLIENT ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCAA RT #	RT #
I.BLK	I.BLK	06/18/2025	11:01	PS030738.D	7.77	0.00
HSTDICC200	HSTDICC200	06/18/2025	11:25	PS030739.D	7.77	0.00
HSTDICC500	HSTDICC500	06/18/2025	11:49	PS030740.D	7.77	0.00
HSTDICC750	HSTDICC750	06/18/2025	12:13	PS030741.D	7.77	0.00
HSTDICC1000	HSTDICC1000	06/18/2025	12:37	PS030742.D	7.77	0.00
HSTDICC1500	HSTDICC1500	06/18/2025	13:29	PS030743.D	7.77	0.00
I.BLK	I.BLK	07/07/2025	20:48	PS030931.D	7.77	0.00
HSTDCCC750	HSTDCCC750	07/07/2025	21:36	PS030932.D	7.77	0.00
TP-58	Q2484-01	07/07/2025	22:25	PS030934.D	7.77	0.00
TP-57	Q2484-02	07/07/2025	22:49	PS030935.D	7.76	0.00
TP-107	Q2484-04	07/07/2025	23:37	PS030937.D	7.77	0.00
TP-106	Q2484-05	07/08/2025	00:01	PS030938.D	7.77	0.00
TP-104	Q2484-06	07/08/2025	00:25	PS030939.D	7.77	0.00
I.BLK	I.BLK	07/08/2025	00:50	PS030940.D	7.77	0.00
HSTDCCC750	HSTDCCC750	07/08/2025	01:38	PS030941.D	7.77	0.00
I.BLK	I.BLK	07/08/2025	08:37	PS030943.D	7.76	0.00
HSTDCCC750	HSTDCCC750	07/08/2025	09:27	PS030944.D	7.77	0.00
PB168706BL	PB168706BL	07/08/2025	12:19	PS030947.D	7.77	0.00
TP-76MS	Q2458-01MS	07/08/2025	13:07	PS030949.D	7.77	0.00
TP-76MSD	Q2458-01MSD	07/08/2025	13:32	PS030950.D	7.77	0.00
I.BLK	I.BLK	07/08/2025	15:41	PS030955.D	7.77	0.00
HSTDCCC750	HSTDCCC750	07/08/2025	16:05	PS030956.D	7.77	0.00
I.BLK	I.BLK	07/09/2025	09:32	PS030958.D	7.77	0.00
HSTDCCC750	HSTDCCC750	07/09/2025	11:36	PS030959.D	7.76	0.00
PB168706BS	PB168706BS	07/09/2025	14:04	PS030965.D	7.77	0.00
I.BLK	I.BLK	07/09/2025	14:28	PS030966.D	7.77	0.00
HSTDCCC750	HSTDCCC750	07/09/2025	14:52	PS030967.D	7.77	0.00
I.BLK	I.BLK	07/10/2025	09:24	PS030979.D	7.77	0.00
HSTDCCC750	HSTDCCC750	07/10/2025	09:48	PS030980.D	7.77	0.00
TP-64	Q2484-03	07/10/2025	16:06	PS030988.D	7.77	0.00
I.BLK	I.BLK	07/10/2025	16:34	PS030989.D	7.77	0.00
HSTDCCC750	HSTDCCC750	07/10/2025	16:59	PS030990.D	7.77	0.00

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PB168706BS

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2484

Lab Sample ID: PB168706BS **Date(s) Analyzed:** 07/09/2025 07/09/2025

Instrument ID (1): ECD_S **Instrument ID (2):** ECD_S

GC Column: (1): RTX-CLP **ID:** 0.32 (mm) **GC Column:(2):** RTX-CLP2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
2,4,5-T	1	9.65	9.60	9.70	183	9.1
	2	10.36	10.31	10.41	167	
2,4,5-TP(Silvex)	1	9.36	9.31	9.41	176	5.2
	2	9.93	9.88	9.98	167	
2,4-D	1	8.47	8.42	8.52	184	18.4
	2	9.03	8.98	9.08	153	
2,4-DB	1	10.23	10.18	10.28	192	17.6
	2	10.93	10.88	10.98	161	
DICHLORPROP	1	8.24	8.19	8.29	163	2.5
	2	8.69	8.64	8.74	159	
Dinoseb	1	11.45	11.40	11.50	170	9.2
	2	11.31	11.26	11.36	155	
DICAMBA	1	7.53	7.48	7.58	171	6
	2	7.97	7.92	8.02	161	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

TP-76MS

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2484

Lab Sample ID: Q2458-01MS **Date(s) Analyzed:** 07/08/2025 07/08/2025

Instrument ID (1): ECD_S **Instrument ID (2):** ECD_S

GC Column: (1): RTX-CLP **ID:** 0.32 (mm) **GC Column:(2):** RTX-CLP2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
DICHLORPROP	1	8.24	8.19	8.29	95.6	7.5
	2	8.69	8.64	8.74	103	
2,4-D	1	8.47	8.42	8.52	138	37.5
	2	9.03	8.98	9.08	94.4	
2,4,5-TP(Silvex)	1	9.36	9.31	9.41	95.3	2.1
	2	9.93	9.88	9.98	97.3	
2,4,5-T	1	9.65	9.60	9.70	99.8	9.2
	2	10.36	10.31	10.41	91.0	
2,4-DB	1	10.23	10.18	10.28	97.1	13.2
	2	10.93	10.88	10.98	85.1	
DICAMBA	1	7.53	7.48	7.58	86.9	2.4
	2	7.97	7.92	8.02	84.8	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

TP-76MSD

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2484

Lab Sample ID: Q2458-01MSD **Date(s) Analyzed:** 07/08/2025 07/08/2025

Instrument ID (1): ECD_S **Instrument ID (2):** ECD_S

GC Column: (1): RTX-CLP **ID:** 0.32 (mm) **GC Column:(2):** RTX-CLP2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
DICHLORPROP	1	8.24	8.19	8.29	95.0	4.4
	2	8.69	8.64	8.74	99.3	
2,4-D	1	8.47	8.42	8.52	139	37.2
	2	9.03	8.98	9.08	95.4	
2,4,5-TP(Silvex)	1	9.36	9.31	9.41	95.9	0.9
	2	9.94	9.89	9.99	96.8	
2,4,5-T	1	9.66	9.61	9.71	101	11.1
	2	10.36	10.31	10.41	90.4	
2,4-DB	1	10.23	10.18	10.28	95.5	3.4
	2	10.93	10.88	10.98	98.8	
DICAMBA	1	7.53	7.48	7.58	88.8	2.9
	2	7.97	7.92	8.02	86.3	

Alliance TECHNICAL GROUP
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LAB CHRONICLE

OrderID:	Q2484	**OrderDate:**	7/2/2025 9:23:00 AM
Client:	CDM Smith	**Project:**	South River WM Replacement
Contact:	Marcie Ann Encinas	**Location:**	--Select--,A12,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2484-01	**TP-58**	**SOIL**			**07/01/25**			**07/01/25**
			Diesel Range Organics	8015D		07/02/25	07/03/25	
			Gasoline Range Organics	8015D			07/03/25	
			PCB	8082A		07/02/25	07/02/25	
			Pesticide-TCL	8081B		07/02/25	07/02/25	
Q2484-02	**TP-57**	**SOIL**			**07/01/25**			**07/01/25**
			Diesel Range Organics	8015D		07/02/25	07/02/25	
			Gasoline Range Organics	8015D			07/03/25	
			PCB	8082A		07/02/25	07/02/25	
			Pesticide-TCL	8081B		07/02/25	07/02/25	
Q2484-03	**TP-64**	**SOIL**			**07/01/25**			**07/01/25**
			Diesel Range Organics	8015D		07/02/25	07/03/25	
			Gasoline Range Organics	8015D			07/03/25	
			PCB	8082A		07/02/25	07/02/25	
			Pesticide-TCL	8081B		07/02/25	07/02/25	
Q2484-04	**TP-107**	**SOIL**			**07/01/25**			**07/01/25**
			Diesel Range Organics	8015D		07/02/25	07/02/25	
			PCB	8082A		07/02/25	07/02/25	
			Pesticide-TCL	8081B		07/02/25	07/02/25	
Q2484-05	**TP-106**	**SOIL**			**07/01/25**			**07/01/25**
			Diesel Range Organics	8015D		07/02/25	07/02/25	
			Gasoline Range Organics	8015D			07/03/25	
			PCB	8082A		07/02/25	07/02/25	
			Pesticide-TCL	8081B		07/02/25	07/02/25	
Q2484-06	**TP-104**	**SOIL**			**07/01/25**			**07/01/25**
			Diesel Range Organics	8015D		07/02/25	07/02/25	
			Gasoline Range Organics	8015D			07/03/25	

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LAB CHRONICLE

PCB	8082A	07/02/25	07/02/25
Pesticide-TCL	8081B	07/02/25	07/02/25

SAMPLE DATA

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-58	SDG No.:	Q2484
Lab Sample ID:	Q2484-01	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	86.2 Decanted:
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG016220.D	5	07/02/25 09:17	07/03/25 10:47	PB168701

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	84500		980	9660	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	4.15		37 - 130	104%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-57	SDG No.:	Q2484
Lab Sample ID:	Q2484-02	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	86 Decanted:
Sample Wt/Vol:	30.04 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG016206.D	1	07/02/25 09:17	07/02/25 18:06	PB168701

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	6690		196	1940	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	10.4		37 - 130	52%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-64	SDG No.:	Q2484
Lab Sample ID:	Q2484-03	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	88.4 Decanted:
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG016221.D	10	07/02/25 09:17	07/03/25 11:17	PB168701

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	95400		1910	18800	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	0.53	*	37 - 130	26%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-107	SDG No.:	Q2484
Lab Sample ID:	Q2484-04	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	83.8 Decanted:
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG016210.D	1	07/02/25 09:17	07/02/25 20:35	PB168701

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	2810		202	1990	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	7.62		37 - 130	38%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-106	SDG No.:	Q2484
Lab Sample ID:	Q2484-05	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	87.9 Decanted:
Sample Wt/Vol:	30.09 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG016211.D	1	07/02/25 09:17	07/02/25 21:05	PB168701

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	3000		192	1890	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	9.77		37 - 130	49%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-104	SDG No.:	Q2484
Lab Sample ID:	Q2484-06	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	87.3 Decanted:
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG016212.D	1	07/02/25 09:17	07/02/25 21:35	PB168701

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	2720		193	1910	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	7.73		37 - 130	39%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

QC SUMMARY

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SOIL DIESEL RANGE ORGANICS SURROGATE RECOVERY

Lab Name: Alliance Client: CDM Smith

Lab Code: ACE SDG No.: Q2484

CLIENT ID	S1 TETRACOSANE-d50	S2	S3	S4	TOT OUT
PIBLK-FF016073.D	80				0
PIBLK-FF016085.D	88				0
PIBLK-FG016199.D	85				0
PIBLK-FG016207.D	84				0
PIBLK-FG016213.D	84				0
PIBLK-FG016217.D	104				0
PIBLK-FG016222.D	83				0
PB168701BL	79				0
PB168701BS	76				0
TP-67MS	42				0
TP-67MSD	39				0
TP-58	104				0
TP-57	52				0
TP-64	26 *				1
TP-107	38				0
TP-106	49				0
TP-104	39				0

	QC LIMITS
TETRACOSANE-d50	For Water : 29-130 For Soil : 37-130

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate Diluted Out

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SOIL DIESEL RANGE ORGANICS MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Alliance **Client:** CDM Smith

Lab Code: ACE **SDG No:** Q2484

Client Sample ID : TP-67MS **Datafile:** FF016081.D

COMPOUND	SPIKE ADDED ug/kg	SAMPLE CONCENTRATION ug/kg	MS/MSD CONCENTRATION ug/kg	% REC	Qual	QC LIMITS(%)
DRO	7420	8110	10715	35%	*	68-131

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SOIL DIESEL RANGE ORGANICS MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Alliance **Client:** CDM Smith

Lab Code: ACE **SDG No:** Q2484

Client Sample ID : TP-67MSD **Datafile:** FF016082.D

COMPOUND	SPIKE ADDED ug/kg	SAMPLE CONCENTRATION ug/kg	MS/MSD CONCENTRATION ug/kg	% REC	Qual	QC LIMITS(%)
DRO	7427	8110	10934	38%	*	68-131

MS/MSD % Recovery RPD : 7.9

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SOIL DIESEL RANGE ORGANICS LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RI

Lab Name: Alliance **Client:** CDM Smith

Lab Code: ACE **SDG No:** Q2484

Client Sample ID : PB168701BS **Datafile:** FF016076.D

COMPOUND	SPIKE ADDED ug/kg	CONCENTRATION ug/kg	LCS/LCSD CONCENTRATION ug/kg	% REC	QC LIMITS (%)
DRO	6660	0	4984	75	68-131

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4B
METHOD BLANK SUMMARY

CLIENT SAMPLE NO.
PB168701BL

Lab Name: Alliance
Contract: CAMP02
Lab Code: ACE
SDG NO.: Q2484
Lab File ID: FF016075.D
Lab Sample ID: PB168701BL
Instrument ID: FF
Date Extracted: 07/02/2025
Matrix: (soil/water) Soil
Date Analyzed: 07/02/25
Level: (low/med) low
Time Analyzed: 19:06

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB168701BS	PB168701BS	FF016076.D	07/02/25
TP-67MS	Q2458-04MS	FF016081.D	07/02/25
TP-67MSD	Q2458-04MSD	FF016082.D	07/02/25
TP-57	Q2484-02	FG016206.D	07/02/25
TP-107	Q2484-04	FG016210.D	07/02/25
TP-106	Q2484-05	FG016211.D	07/02/25
TP-104	Q2484-06	FG016212.D	07/02/25
TP-58	Q2484-01	FG016220.D	07/03/25
TP-64	Q2484-03	FG016221.D	07/03/25

COMMENTS:

QC SAMPLE DATA

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168701BL	SDG No.:	Q2484
Lab Sample ID:	PB168701BL	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	100 Decanted:
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF016075.D	1	07/02/25 09:17	07/02/25 19:06	PB168701

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	169	U	169	1670	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	15.9		37 - 130	79%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
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LOD = Limit of Detection
E = Value Exceeds Calibration Range
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Q = indicates LCS control criteria did not meet requirements
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J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/02/25
Project:	South River WM Replacement	Date Received:	07/02/25
Client Sample ID:	PIBLK-FF016073.D	SDG No.:	Q2484
Lab Sample ID:	I.BLK-FF016073.D	Matrix:	Water
Analytical Method:	8015D DRO	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF016073.D	1		07/02/25	FF070225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
DRO	DRO	6.00	U	6.00	50.0	ug/L
SURROGATES						
16416-32-3	Tetracosane-d50	16.0		29 - 130	80%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
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Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
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D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/03/25
Project:	South River WM Replacement	Date Received:	07/03/25
Client Sample ID:	PIBLK-FF016085.D	SDG No.:	Q2484
Lab Sample ID:	I.BLK-FF016085.D	Matrix:	Water
Analytical Method:	8015D DRO	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF016085.D	1		07/03/25	FF070225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
DRO	DRO	6.00	U	6.00	50.0	ug/L
SURROGATES						
16416-32-3	Tetracosane-d50	17.5		29 - 130	88%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/02/25
Project:	South River WM Replacement	Date Received:	07/02/25
Client Sample ID:	PIBLK-FG016199.D	SDG No.:	Q2484
Lab Sample ID:	I.BLK-FG016199.D	Matrix:	Water
Analytical Method:	8015D DRO	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG016199.D	1		07/02/25	FG070225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
DRO	DRO	6.00	U	6.00	50.0	ug/L
SURROGATES						
16416-32-3	Tetracosane-d50	17.1		29 - 130	85%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/02/25
Project:	South River WM Replacement	Date Received:	07/02/25
Client Sample ID:	PIBLK-FG016207.D	SDG No.:	Q2484
Lab Sample ID:	I.BLK-FG016207.D	Matrix:	Water
Analytical Method:	8015D DRO	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG016207.D	1		07/02/25	FG070225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
DRO	DRO	6.00	U	6.00	50.0	ug/L
SURROGATES						
16416-32-3	Tetracosane-d50	16.9		29 - 130	84%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/02/25
Project:	South River WM Replacement	Date Received:	07/02/25
Client Sample ID:	PIBLK-FG016213.D	SDG No.:	Q2484
Lab Sample ID:	I.BLK-FG016213.D	Matrix:	Water
Analytical Method:	8015D DRO	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG016213.D	1		07/02/25	FG070225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
DRO	DRO	6.00	U	6.00	50.0	ug/L
SURROGATES						
16416-32-3	Tetracosane-d50	16.9		29 - 130	84%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/03/25
Project:	South River WM Replacement	Date Received:	07/03/25
Client Sample ID:	PIBLK-FG016217.D	SDG No.:	Q2484
Lab Sample ID:	I.BLK-FG016217.D	Matrix:	Water
Analytical Method:	8015D DRO	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG016217.D	1		07/03/25	FG070325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
DRO	DRO	6.00	U	6.00	50.0	ug/L
SURROGATES						
16416-32-3	Tetracosane-d50	20.7		29 - 130	104%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/03/25
Project:	South River WM Replacement	Date Received:	07/03/25
Client Sample ID:	PIBLK-FG016222.D	SDG No.:	Q2484
Lab Sample ID:	I.BLK-FG016222.D	Matrix:	Water
Analytical Method:	8015D DRO	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG016222.D	1		07/03/25	FG070325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
DRO	DRO	6.00	U	6.00	50.0	ug/L
SURROGATES						
16416-32-3	Tetracosane-d50	16.6		29 - 130	83%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168701BS	SDG No.:	Q2484
Lab Sample ID:	PB168701BS	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	100 Decanted:
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF016076.D	1	07/02/25 09:17	07/02/25 19:36	PB168701

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	4980		169	1670	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	15.1		37 - 130	76%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-67MS	SDG No.:	Q2484
Lab Sample ID:	Q2458-04MS	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	89.7 Decanted:
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF016081.D	1	07/02/25 09:17	07/02/25 22:05	PB168701

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	10700		188	1860	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	8.49		37 - 130	42%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-67MSD	SDG No.:	Q2484
Lab Sample ID:	Q2458-04MSD	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	89.7 Decanted:
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF016082.D	1	07/02/25 09:17	07/02/25 22:35	PB168701

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	10900		188	1860	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	7.76		37 - 130	39%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

CALIBRATION SUMMARY

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DIESEL RANGE ORGANICS INITIAL CALIBRATION SUMMARY

Lab Name: Alliance
Contract: CAMP02
ProjectID: South River WM Replacement
Lab Code: ACE
SDG No.: Q2484

Calibration Sequence : FF061325		Test : Diesel Range Organics	
Concentration (PPM)	**Area Count**	**Reference Factor**	**File ID**
1000	128762116	128762	FF015964.D
500	64295722	128591	FF015965.D
200	27169561	135848	FF015966.D
100	13526499	135265	FF015967.D
50	7306219	146124	FF015968.D
AVG RF : 134918	**% RSD : 5.299**		**AVG RT : 15.0944**

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DIESEL RANGE ORGANICS INITIAL CALIBRATION SUMMARY

Lab Name: Alliance
Contract: CAMP02
ProjectID: South River WM Replacement
Lab Code: ACE
SDG No.: Q2484

Calibration Sequence : FG061325		Test : Diesel Range Organics	
Concentration (PPM)	**Area Count**	**Reference Factor**	**File ID**
1000	121978597	121979	FG016063.D
500	61365081	122730	FG016064.D
200	26234834	131174	FG016065.D
100	13396741	133967	FG016066.D
50	7145066	142901	FG016067.D

AVG RF : 130550 **% RSD : 6.625** **AVG RT : 15.1972**

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DIESEL RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Alliane Contract: CAMP02

ProjectID: South River WM Replacement

Lab Code: ACE SDG No.: Q2484

DataFile: FF016074.D Analyst Name: YP\AJ Analyst Date: 07-02-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
500	65207896	130416	134918	3.337

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DIESEL RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Alliane Contract: CAMP02

ProjectID: South River WM Replacement

Lab Code: ACE SDG No.: Q2484

DataFile: FF016086.D Analyst Name: YP\AJ Analyst Date: 07-03-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
500	72212687	144425	134918	7.047

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DIESEL RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Alliane Contract: CAMP02

ProjectID: South River WM Replacement

Lab Code: ACE SDG No.: Q2484

DataFile: FG016200.D Analyst Name: YP\AJ Analyst Date: 07-02-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
500	64913586	129827	130550	0.554

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DIESEL RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Alliane Contract: CAMP02

ProjectID: South River WM Replacement

Lab Code: ACE SDG No.: Q2484

DataFile: FG016208.D Analyst Name: YP\AJ Analyst Date: 07-02-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
500	63999772	128000	130550	1.953

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DIESEL RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Alliane Contract: CAMP02

ProjectID: South River WM Replacement

Lab Code: ACE SDG No.: Q2484

DataFile: FG016214.D Analyst Name: YP\AJ Analyst Date: 07-02-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
500	64519521	129039	130550	1.157

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DIESEL RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Alliane Contract: CAMP02

ProjectID: South River WM Replacement

Lab Code: ACE SDG No.: Q2484

DataFile: FG016218.D Analyst Name: YP\AJ Analyst Date: 07-03-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
500	65631043	131262	130550	0.545

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DIESEL RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Alliane Contract: CAMP02

ProjectID: South River WM Replacement

Lab Code: ACE SDG No.: Q2484

DataFile: FG016223.D Analyst Name: YP\AJ Analyst Date: 07-03-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
500	64854029	129708	130550	0.645

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Analytical Sequence

Client: CDM Smith **SDG No.:** Q2484

Project: South River WM Replacement **Instrument ID:** FID_G

GC Column: RXI-1MS **ID:** 0.18 **(mm)**

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SUROGATE RT FROM INITIAL CALIBRATION **15.0944**

CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE AND TIME ANALYZED	DATAFILE	RT	#
PIBLK01	I.BLK01	02 Jul 2025 17:36	FF016073.D	15.092	
50 PPM TRPH STD	50 PPM TRPH STD	02 Jul 2025 18:06	FF016074.D	15.094	
PB168701BL	PB168701BL	02 Jul 2025 19:06	FF016075.D	15.092	
PB168701BS	PB168701BS	02 Jul 2025 19:36	FF016076.D	15.091	
TP-67MS	Q2458-04MS	02 Jul 2025 22:05	FF016081.D	15.096	
TP-67MSD	Q2458-04MSD	02 Jul 2025 22:35	FF016082.D	15.095	
PIBLK02	I.BLK02	03 Jul 2025 00:04	FF016085.D	15.100	
50 PPM TRPH STD	50 PPM TRPH STD	03 Jul 2025 00:34	FF016086.D	15.102	
PIBLK03	I.BLK03	02 Jul 2025 11:18	FG016199.D	15.199	
50 PPM TRPH STD	50 PPM TRPH STD	02 Jul 2025 11:53	FG016200.D	15.204	
TP-57	Q2484-02	02 Jul 2025 18:06	FG016206.D	15.203	
PIBLK04	I.BLK04	02 Jul 2025 18:36	FG016207.D	15.204	
50 PPM TRPH STD	50 PPM TRPH STD	02 Jul 2025 19:06	FG016208.D	15.207	
TP-107	Q2484-04	02 Jul 2025 20:35	FG016210.D	15.209	
TP-106	Q2484-05	02 Jul 2025 21:05	FG016211.D	15.209	
TP-104	Q2484-06	02 Jul 2025 21:35	FG016212.D	15.208	
PIBLK05	I.BLK05	02 Jul 2025 22:05	FG016213.D	15.208	
50 PPM TRPH STD	50 PPM TRPH STD	02 Jul 2025 22:35	FG016214.D	15.211	
PIBLK06	I.BLK06	03 Jul 2025 08:38	FG016217.D	15.206	
50 PPM TRPH STD	50 PPM TRPH STD	03 Jul 2025 09:08	FG016218.D	15.209	
TP-58	Q2484-01	03 Jul 2025 10:47	FG016220.D	15.207	
TP-64	Q2484-03	03 Jul 2025 11:17	FG016221.D	15.206	
PIBLK07	I.BLK07	03 Jul 2025 11:47	FG016222.D	15.207	
50 PPM TRPH STD	50 PPM TRPH STD	03 Jul 2025 12:17	FG016223.D	15.210	

 # Column used to flag RT values with an * values outside of QC limits

QC Limits	Lower Limit	Upper Limits
(± 0.10 minutes)	15.0972	15.2972

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG070225\
Data File : FG016205.D
Signal(s) : FID1A.ch
Acq On : 02 Jul 2025 17:36
Operator : YP\AJ
Sample : Q2484-01
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
TP-58

10

A B C D E F G

Integration File: autoint1.e
Quant Time: Jul 03 01:23:31 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG061325.M
Quant Title :
QLast Update : Fri Jun 13 12:34:28 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.207	2444036	20.836 ug/ml
Target Compounds			

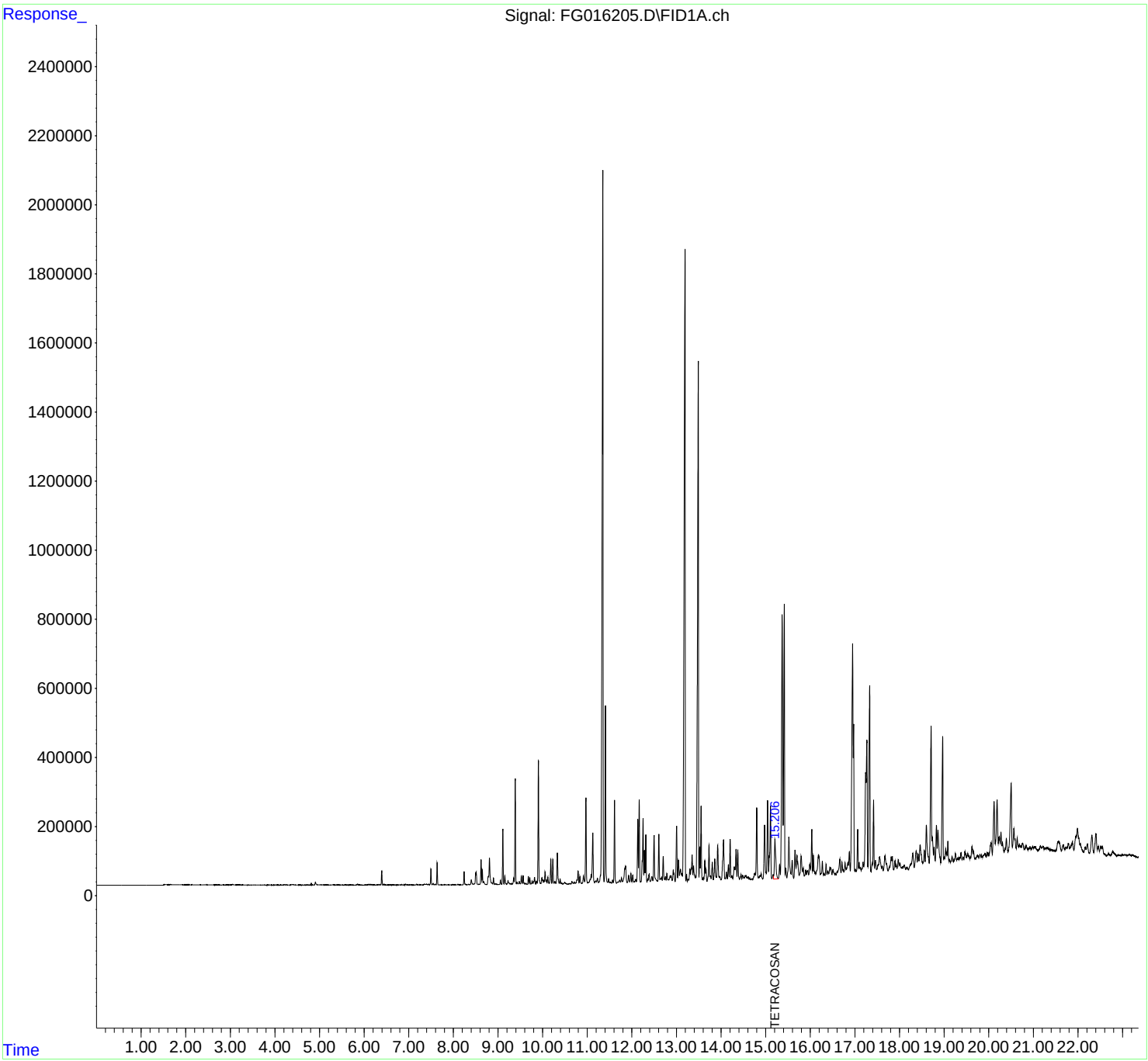
(f)=RT Delta > 1/2 Window (m)=manual int.

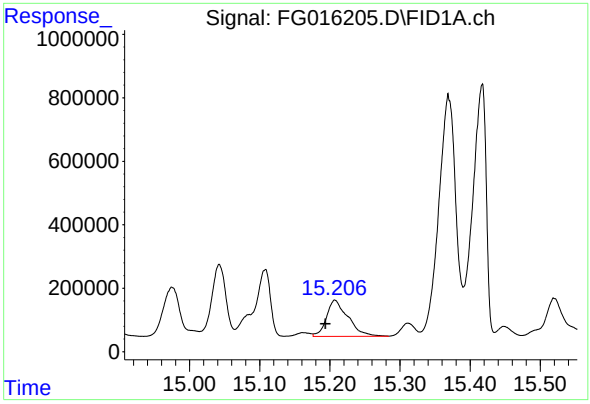
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG070225\
Data File : FG016205.D
Signal(s) : FID1A.ch
Acq On : 02 Jul 2025 17:36
Operator : YP\AJ
Sample : Q2484-01
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
TP-58

Integration File: autoint1.e
Quant Time: Jul 03 01:23:31 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG061325.M
Quant Title :
QLast Update : Fri Jun 13 12:34:28 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.207 min
Delta R.T.: 0.014 min
Response: 2444036
Conc: 20.84 ug/ml

Instrument :
FID_G
ClientSampleId :
TP-58

10

A B C D E F G

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG070225\
Data File : FG016205.D
Signal(s) : FID1A.ch
Acq On : 02 Jul 2025 17:36
Sample : Q2484-01
Misc :
ALS Vial : 24 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG061325.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.586	4.565	4.603	PV	121	1175	0.00%	0.000%
2	4.619	4.603	4.626	VV	175	1261	0.00%	0.000%
3	4.635	4.626	4.653	VV	225	2393	0.01%	0.001%
4	4.674	4.653	4.697	VV	431	5565	0.02%	0.002%
5	4.715	4.697	4.732	VV	424	4324	0.01%	0.002%
6	4.746	4.732	4.765	PV	168	2218	0.01%	0.001%
7	4.770	4.765	4.781	VV	188	1130	0.00%	0.000%
8	4.786	4.781	4.800	VV	209	826	0.00%	0.000%
9	4.815	4.800	4.820	VV	5319	5578	0.02%	0.002%
10	4.839	4.820	4.875	VV	782	13037	0.04%	0.005%
11	4.908	4.875	5.019	VV	9051	160760	0.51%	0.059%
12	5.046	5.019	5.066	VV	821	16599	0.05%	0.006%
13	5.071	5.066	5.085	VV	535	5360	0.02%	0.002%
14	5.089	5.085	5.113	VV	502	6823	0.02%	0.002%
15	5.127	5.113	5.139	VV	396	5451	0.02%	0.002%
16	5.146	5.139	5.154	VV	504	3634	0.01%	0.001%
17	5.182	5.154	5.215	VV	617	15739	0.05%	0.006%
18	5.220	5.215	5.224	VV	297	1359	0.00%	0.000%
19	5.229	5.224	5.246	VV	277	3009	0.01%	0.001%
20	5.262	5.246	5.269	VV	369	3656	0.01%	0.001%
21	5.294	5.269	5.327	VV	1112	21419	0.07%	0.008%
22	5.331	5.327	5.356	VV	469	5283	0.02%	0.002%
23	5.360	5.356	5.365	VV	243	1295	0.00%	0.000%
24	5.384	5.365	5.395	VV	616	7486	0.02%	0.003%
25	5.399	5.395	5.414	VV	463	4119	0.01%	0.002%
26	5.437	5.414	5.457	VV	666	10994	0.03%	0.004%
27	5.470	5.457	5.486	VV	449	6146	0.02%	0.002%
28	5.498	5.486	5.511	VV	437	5263	0.02%	0.002%
29	5.525	5.511	5.542	VV	257	3830	0.01%	0.001%
30	5.564	5.542	5.577	VV	872	10504	0.03%	0.004%
31	5.581	5.577	5.605	VV	485	5683	0.02%	0.002%
32	5.622	5.605	5.650	VV	1033	13174	0.04%	0.005%
33	5.657	5.650	5.670	VV	274	2739	0.01%	0.001%
34	5.684	5.670	5.690	VV	309	2920	0.01%	0.001%
35	5.698	5.690	5.704	VV	230	1678	0.01%	0.001%
36	5.706	5.704	5.711	VV	241	922	0.00%	0.000%

rteres

37	5.725	5.711	5.741	VV	441	5404	0.02%	0.002%
38	5.754	5.741	5.787	VV	331	4600	0.01%	0.002%
39	5.818	5.787	5.833	VV	859	10456	0.03%	0.004%
40	5.850	5.833	5.869	VV	3365	36947	0.12%	0.013%
41	5.873	5.869	5.907	VV	1062	14067	0.04%	0.005%
42	5.920	5.907	5.942	VV	733	9795	0.03%	0.004%
43	5.948	5.942	5.952	VV	244	1224	0.00%	0.000%
44	5.958	5.952	5.981	VV	260	2883	0.01%	0.001%
45	6.012	5.981	6.036	PV	599	9610	0.03%	0.004%
46	6.044	6.036	6.054	VV	309	2364	0.01%	0.001%
47	6.064	6.054	6.074	VV	490	4598	0.01%	0.002%
48	6.093	6.074	6.109	VV	2576	32724	0.10%	0.012%
49	6.135	6.109	6.151	VV	2926	45799	0.15%	0.017%
50	6.158	6.151	6.202	VV	1345	28951	0.09%	0.011%
51	6.212	6.202	6.264	VV	738	17244	0.05%	0.006%
52	6.279	6.264	6.306	VV	840	13384	0.04%	0.005%
53	6.327	6.306	6.346	VV	2079	25991	0.08%	0.009%
54	6.358	6.346	6.371	VV	850	10675	0.03%	0.004%
55	6.394	6.371	6.426	VV	41605	404144	1.29%	0.148%
56	6.445	6.426	6.483	VV	3049	41377	0.13%	0.015%
57	6.503	6.483	6.522	VV	638	10454	0.03%	0.004%
58	6.548	6.522	6.556	VV	453	6772	0.02%	0.002%
59	6.585	6.556	6.610	VV	515	11904	0.04%	0.004%
60	6.648	6.610	6.666	VV	609	12003	0.04%	0.004%
61	6.690	6.666	6.730	VV	1084	19098	0.06%	0.007%
62	6.745	6.730	6.754	VV	302	2819	0.01%	0.001%
63	6.771	6.754	6.783	VV	445	6555	0.02%	0.002%
64	6.797	6.783	6.812	VV	543	7899	0.03%	0.003%
65	6.813	6.812	6.824	VV	389	2222	0.01%	0.001%
66	6.840	6.824	6.902	VV	1560	29672	0.09%	0.011%
67	6.928	6.902	6.959	VV	3028	32551	0.10%	0.012%
68	6.976	6.959	6.995	VV	380	5546	0.02%	0.002%
69	7.011	6.995	7.029	VV	396	5851	0.02%	0.002%
70	7.045	7.029	7.082	VV	1659	22868	0.07%	0.008%
71	7.084	7.082	7.099	VV	166	835	0.00%	0.000%
72	7.112	7.099	7.129	PV	218	2006	0.01%	0.001%
73	7.143	7.129	7.157	VV	724	7190	0.02%	0.003%
74	7.179	7.157	7.219	VV	2217	36616	0.12%	0.013%
75	7.236	7.219	7.254	VV	758	13594	0.04%	0.005%
76	7.268	7.254	7.288	VV	1754	20931	0.07%	0.008%
77	7.303	7.288	7.324	VV	652	10785	0.03%	0.004%
78	7.347	7.324	7.382	VV	2419	58067	0.18%	0.021%
79	7.399	7.382	7.420	VV	3235	47741	0.15%	0.017%
80	7.440	7.420	7.465	VV	1728	36501	0.12%	0.013%
81	7.496	7.465	7.522	VV	46777	470209	1.50%	0.172%
82	7.546	7.522	7.568	VV	4139	56026	0.18%	0.020%
83	7.593	7.568	7.612	VV	2536	36969	0.12%	0.014%
84	7.635	7.612	7.663	VV	64688	607441	1.93%	0.222%
85	7.677	7.663	7.689	VV	362	4169	0.01%	0.002%
86	7.707	7.689	7.719	VV	579	7528	0.02%	0.003%
87	7.731	7.719	7.743	VV	571	6112	0.02%	0.002%
88	7.756	7.743	7.772	VV	579	6947	0.02%	0.003%
89	7.808	7.772	7.849	VV	1590	30084	0.10%	0.011%

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90	7.870	7.849	7.877	VV	580	6720	0.02%	0.002%
91	7.882	7.877	7.917	VV	568	9116	0.03%	0.003%
92	7.937	7.917	7.953	VV	554	6308	0.02%	0.002%
93	7.986	7.953	8.013	PV	914	14874	0.05%	0.005%
94	8.025	8.013	8.037	VV	440	5439	0.02%	0.002%
95	8.041	8.037	8.059	VV	441	3354	0.01%	0.001%
96	8.063	8.059	8.078	VV	203	1085	0.00%	0.000%
97	8.101	8.078	8.124	PV	1124	14886	0.05%	0.005%
98	8.140	8.124	8.177	VV	331	7338	0.02%	0.003%
99	8.188	8.177	8.198	VV	247	2321	0.01%	0.001%
100	8.203	8.198	8.214	VV	287	1790	0.01%	0.001%
101	8.240	8.214	8.262	VV	38836	378385	1.20%	0.138%
102	8.271	8.262	8.324	VV	1795	30913	0.10%	0.011%
103	8.343	8.324	8.363	VV	2260	23569	0.08%	0.009%
104	8.401	8.363	8.434	VV	14638	215109	0.68%	0.079%
105	8.446	8.434	8.460	VV	2708	33017	0.11%	0.012%
106	8.499	8.460	8.507	VV	34653	363201	1.16%	0.133%
107	8.514	8.507	8.557	VV	33790	341699	1.09%	0.125%
108	8.573	8.557	8.588	VV	1741	23661	0.08%	0.009%
109	8.621	8.588	8.637	VV	73010	793756	2.53%	0.290%
110	8.649	8.637	8.666	VV	43302	435169	1.38%	0.159%
111	8.676	8.666	8.723	VV	9935	170462	0.54%	0.062%
112	8.738	8.723	8.753	VV	1160	14774	0.05%	0.005%
113	8.784	8.753	8.792	VV	24710	334165	1.06%	0.122%
114	8.809	8.792	8.854	VV	77520	1159436	3.69%	0.423%
115	8.862	8.854	8.880	VV	5630	67741	0.22%	0.025%
116	8.900	8.880	8.933	VV	19812	219994	0.70%	0.080%
117	8.948	8.933	8.970	VV	2667	35106	0.11%	0.013%
118	8.973	8.970	9.002	VV	797	12007	0.04%	0.004%
119	9.006	9.002	9.010	VV	493	2332	0.01%	0.001%
120	9.025	9.010	9.034	VV	532	6429	0.02%	0.002%
121	9.056	9.034	9.083	VV	13045	138066	0.44%	0.050%
122	9.109	9.083	9.134	VV	161208	1584349	5.04%	0.579%
123	9.154	9.134	9.195	VV	26112	308738	0.98%	0.113%
124	9.226	9.195	9.241	VV	11291	153325	0.49%	0.056%
125	9.247	9.241	9.262	VV	5354	49172	0.16%	0.018%
126	9.273	9.262	9.287	VV	3146	35279	0.11%	0.013%
127	9.303	9.287	9.318	VV	3259	42559	0.14%	0.016%
128	9.353	9.318	9.365	VV	19160	246272	0.78%	0.090%
129	9.387	9.365	9.410	VV	306742	3058925	9.73%	1.117%
130	9.425	9.410	9.451	VV	7527	100186	0.32%	0.037%
131	9.478	9.451	9.495	VV	8933	118083	0.38%	0.043%
132	9.524	9.495	9.545	VV	24521	296846	0.94%	0.108%
133	9.564	9.545	9.605	VV	26050	321775	1.02%	0.118%
134	9.622	9.605	9.651	VV	4010	55916	0.18%	0.020%
135	9.682	9.651	9.699	VV	22578	255427	0.81%	0.093%
136	9.714	9.699	9.734	VV	19589	203079	0.65%	0.074%
137	9.767	9.734	9.784	VV	10267	137930	0.44%	0.050%
138	9.801	9.784	9.805	VV	8172	74045	0.24%	0.027%
139	9.821	9.805	9.843	VV	20406	247225	0.79%	0.090%
140	9.861	9.843	9.879	VV	9392	120678	0.38%	0.044%
141	9.907	9.879	9.959	VV	358349	3833013	12.20%	1.400%

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142	9.984	9.959	9.997	VV	19717	256771	0.82%	0.094%
143	10.002	9.997	10.015	VV	12825	116582	0.37%	0.043%
144	10.027	10.015	10.036	VV	11757	116590	0.37%	0.043%
145	10.056	10.036	10.074	VV	37072	492796	1.57%	0.180%
146	10.083	10.074	10.099	VV	12923	137888	0.44%	0.050%
147	10.117	10.099	10.149	VV	21373	295701	0.94%	0.108%
148	10.184	10.149	10.206	VV	72854	875796	2.79%	0.320%
149	10.229	10.206	10.254	VV	72865	805727	2.56%	0.294%
150	10.277	10.254	10.297	VV	8129	146429	0.47%	0.053%
151	10.331	10.297	10.374	VV	90841	1295192	4.12%	0.473%
152	10.393	10.374	10.414	VV	15247	183628	0.58%	0.067%
153	10.428	10.414	10.458	VV	3545	56339	0.18%	0.021%
154	10.493	10.458	10.522	VV	5595	112525	0.36%	0.041%
155	10.529	10.522	10.552	VV	2165	21936	0.07%	0.008%
156	10.572	10.552	10.579	PV	435	4286	0.01%	0.002%
157	10.601	10.579	10.614	VV	2024	25454	0.08%	0.009%
158	10.625	10.614	10.636	VV	1362	16009	0.05%	0.006%
159	10.657	10.636	10.693	VV	7994	135176	0.43%	0.049%
160	10.710	10.693	10.729	VV	5920	80185	0.26%	0.029%
161	10.768	10.729	10.777	VV	12742	188429	0.60%	0.069%
162	10.795	10.777	10.817	VV	37705	471548	1.50%	0.172%
163	10.835	10.817	10.874	VV	21769	294208	0.94%	0.107%
164	10.915	10.874	10.943	VV	23385	395933	1.26%	0.145%
165	10.970	10.943	11.019	VV	249533	2847152	9.06%	1.040%
166	11.064	11.019	11.072	VV	12747	222404	0.71%	0.081%
167	11.088	11.072	11.097	VV	27117	308907	0.98%	0.113%
168	11.125	11.097	11.165	VV	147715	2132280	6.79%	0.779%
169	11.196	11.165	11.209	VV	7314	158231	0.50%	0.058%
170	11.230	11.209	11.250	VV	15770	244058	0.78%	0.089%
171	11.349	11.250	11.377	VV	2066877	30544393	97.21%	11.156%
172	11.408	11.377	11.462	VV	515224	5429791	17.28%	1.983%
173	11.478	11.462	11.512	VV	13466	186664	0.59%	0.068%
174	11.525	11.512	11.548	VV	3577	52998	0.17%	0.019%
175	11.568	11.548	11.585	VV	10325	117649	0.37%	0.043%
176	11.612	11.585	11.655	VV	240670	2517925	8.01%	0.920%
177	11.687	11.655	11.703	PV	4185	75481	0.24%	0.028%
178	11.728	11.703	11.746	VV	9276	161214	0.51%	0.059%
179	11.769	11.746	11.790	VV	15899	233931	0.74%	0.085%
180	11.840	11.790	11.847	VV	42610	666020	2.12%	0.243%
181	11.861	11.847	11.896	VV	50059	745422	2.37%	0.272%
182	11.929	11.896	11.951	VV	22585	330439	1.05%	0.121%
183	11.980	11.951	11.999	VV	27888	365069	1.16%	0.133%
184	12.020	11.999	12.043	VV	22819	310068	0.99%	0.113%
185	12.056	12.043	12.064	VV	4246	48764	0.16%	0.018%
186	12.086	12.064	12.104	VV	10818	164815	0.52%	0.060%
187	12.134	12.104	12.149	VV	184243	2159494	6.87%	0.789%
188	12.166	12.149	12.204	VV	240868	2655291	8.45%	0.970%
189	12.252	12.204	12.268	VV	186587	2622903	8.35%	0.958%
190	12.283	12.268	12.297	VV	93822	1033630	3.29%	0.378%
191	12.314	12.297	12.339	VV	139664	1584704	5.04%	0.579%
192	12.355	12.339	12.365	VV	10073	104578	0.33%	0.038%
193	12.388	12.365	12.413	VV	23462	395860	1.26%	0.145%
194	12.449	12.413	12.471	VV	18099	338193	1.08%	0.124%

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195	12.499	12.471	12.562	VV	136400	1940459	6.18%	0.709%
196	12.568	12.562	12.580	VV	5312	47843	0.15%	0.017%
197	12.606	12.580	12.630	VV	138992	1632313	5.19%	0.596%
198	12.640	12.630	12.648	VV	10469	107881	0.34%	0.039%
199	12.666	12.648	12.682	VV	13364	215555	0.69%	0.079%
200	12.704	12.682	12.735	VV	75292	1013805	3.23%	0.370%
201	12.754	12.735	12.768	VV	16517	227988	0.73%	0.083%
202	12.786	12.768	12.809	VV	25447	366993	1.17%	0.134%
203	12.820	12.809	12.831	VV	8273	99890	0.32%	0.036%
204	12.858	12.831	12.870	VV	18411	302942	0.96%	0.111%
205	12.882	12.870	12.904	VV	18978	257270	0.82%	0.094%
206	12.930	12.904	12.943	VV	35886	471597	1.50%	0.172%
207	12.947	12.943	12.970	VV	23630	219795	0.70%	0.080%
208	13.005	12.970	13.025	VV	162464	2085940	6.64%	0.762%
209	13.045	13.025	13.067	VV	62933	972417	3.09%	0.355%
210	13.091	13.067	13.134	VV	36511	1057643	3.37%	0.386%
211	13.193	13.134	13.211	VV	1833117	31422375	100.00%	11.476%
212	13.228	13.211	13.247	VV	21358	222863	0.71%	0.081%
213	13.261	13.247	13.275	VV	7517	93139	0.30%	0.034%
214	13.301	13.275	13.314	VV	37161	502411	1.60%	0.183%
215	13.329	13.314	13.335	VV	38387	420103	1.34%	0.153%
216	13.352	13.335	13.368	VV	78217	1018680	3.24%	0.372%
217	13.384	13.368	13.423	VV	45457	853756	2.72%	0.312%
218	13.432	13.423	13.440	VV	13500	128155	0.41%	0.047%
219	13.490	13.440	13.505	VV	1499762	23081944	73.46%	8.430%
220	13.522	13.505	13.534	VV	98892	1060544	3.38%	0.387%
221	13.552	13.534	13.584	VV	218633	2495825	7.94%	0.912%
222	13.603	13.584	13.615	VV	11261	160702	0.51%	0.059%
223	13.636	13.615	13.650	VV	61174	719563	2.29%	0.263%
224	13.661	13.650	13.685	VV	36297	426215	1.36%	0.156%
225	13.730	13.685	13.751	PV	104629	1360266	4.33%	0.497%
226	13.762	13.751	13.777	VV	16950	209043	0.67%	0.076%
227	13.803	13.777	13.826	VV	55592	766594	2.44%	0.280%
228	13.860	13.826	13.898	VV	64334	1102234	3.51%	0.403%
229	13.925	13.898	13.955	VV	103219	1671274	5.32%	0.610%
230	13.972	13.955	13.997	VV	12405	234123	0.75%	0.086%
231	14.055	13.997	14.092	VV	118215	2419134	7.70%	0.884%
232	14.121	14.092	14.140	VV	25681	389375	1.24%	0.142%
233	14.164	14.140	14.182	VV	46007	642615	2.05%	0.235%
234	14.204	14.182	14.226	VV	118649	1382928	4.40%	0.505%
235	14.243	14.226	14.262	VV	13956	227206	0.72%	0.083%
236	14.295	14.262	14.312	VV	40060	754040	2.40%	0.275%
237	14.335	14.312	14.355	VV	89862	1309301	4.17%	0.478%
238	14.375	14.355	14.414	VV	88186	1149124	3.66%	0.420%
239	14.448	14.414	14.465	VV	16488	291977	0.93%	0.107%
240	14.488	14.465	14.508	VV	13225	253150	0.81%	0.092%
241	14.515	14.508	14.522	VV	7341	63291	0.20%	0.023%
242	14.539	14.522	14.547	VV	12430	155703	0.50%	0.057%
243	14.558	14.547	14.577	VV	13366	186328	0.59%	0.068%
244	14.585	14.577	14.595	VV	6709	66936	0.21%	0.024%
245	14.610	14.595	14.627	VV	10040	128274	0.41%	0.047%
246	14.642	14.627	14.661	VV	6470	74129	0.24%	0.027%

247	14.694	14.661	14.710	VV	3829	54669	0.17%	0.020%
248	14.751	14.710	14.770	PV	17156	379717	1.21%	0.139%
249	14.800	14.770	14.831	VV	208231	2809344	8.94%	1.026%
250	14.841	14.831	14.854	VV	7604	87812	0.28%	0.032%
251	14.870	14.854	14.881	VV	11851	152930	0.49%	0.056%
252	14.898	14.881	14.934	VV	16429	264471	0.84%	0.097%
253	14.975	14.934	15.014	VV	155065	2706472	8.61%	0.988%
254	15.042	15.014	15.065	VV	228470	3209944	10.22%	1.172%
255	15.108	15.065	15.135	VV	210120	3482280	11.08%	1.272%
256	15.161	15.135	15.176	VV	12145	174414	0.56%	0.064%
257	15.207	15.176	15.284	VV	114593	2444036	7.78%	0.893%
258	15.311	15.284	15.328	VV	41326	561634	1.79%	0.205%
259	15.369	15.328	15.391	VV	758936	12790573	40.71%	4.671%
260	15.417	15.391	15.435	VV	795559	10587288	33.69%	3.867%
261	15.448	15.435	15.474	VV	30521	392310	1.25%	0.143%
262	15.520	15.474	15.569	VV	119225	2321377	7.39%	0.848%
263	15.594	15.569	15.627	VV	52057	811257	2.58%	0.296%
264	15.658	15.627	15.680	PV	81635	1224376	3.90%	0.447%
265	15.700	15.680	15.751	VV	64449	1561938	4.97%	0.570%
266	15.795	15.751	15.825	VV	62585	1376120	4.38%	0.503%
267	15.842	15.825	15.865	VV	27864	428581	1.36%	0.157%
268	15.897	15.865	15.914	VV	21383	333152	1.06%	0.122%
269	15.945	15.914	15.964	VV	18538	420672	1.34%	0.154%
270	15.989	15.964	16.007	VV	37049	612504	1.95%	0.224%
271	16.034	16.007	16.054	VV	137350	1911917	6.08%	0.698%
272	16.070	16.054	16.109	VV	61441	958843	3.05%	0.350%
273	16.116	16.109	16.124	VV	10067	84194	0.27%	0.031%
274	16.181	16.124	16.227	VV	59937	1962621	6.25%	0.717%
275	16.271	16.227	16.297	VV	43122	660126	2.10%	0.241%
276	16.311	16.297	16.331	VV	6108	83307	0.27%	0.030%
277	16.354	16.331	16.375	VV	33363	427080	1.36%	0.156%
278	16.394	16.375	16.411	VV	13822	199074	0.63%	0.073%
279	16.441	16.411	16.451	VV	22378	362767	1.15%	0.132%
280	16.461	16.451	16.487	VV	22367	312948	1.00%	0.114%
281	16.508	16.487	16.549	VV	16872	336478	1.07%	0.123%
282	16.562	16.549	16.577	VV	3891	42335	0.13%	0.015%
283	16.604	16.577	16.615	PV	9195	129609	0.41%	0.047%
284	16.662	16.615	16.688	VV	45114	988008	3.14%	0.361%
285	16.710	16.688	16.733	VV	35550	545245	1.74%	0.199%
286	16.740	16.733	16.757	VV	13192	155706	0.50%	0.057%
287	16.780	16.757	16.799	VV	33008	510488	1.62%	0.186%
288	16.842	16.799	16.854	VV	32766	731237	2.33%	0.267%
289	16.876	16.854	16.898	VV	63249	982686	3.13%	0.359%
290	16.949	16.898	16.964	VV	661945	12760374	40.61%	4.660%
291	16.973	16.964	16.997	VV	431772	3957977	12.60%	1.446%
292	17.012	16.997	17.035	VV	10034	163052	0.52%	0.060%
293	17.063	17.035	17.082	VV	125173	1530849	4.87%	0.559%
294	17.095	17.082	17.112	VV	29191	364814	1.16%	0.133%
295	17.122	17.112	17.140	VV	14597	195342	0.62%	0.071%
296	17.154	17.140	17.164	VV	10644	131115	0.42%	0.048%
297	17.183	17.164	17.199	VV	29051	434999	1.38%	0.159%
298	17.242	17.199	17.251	VV	284167	4220609	13.43%	1.541%
299	17.268	17.251	17.291	VV	383302	5611649	17.86%	2.050%

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300	17.331	17.291	17.360	VV	534842	8122539	25.85%	2.967%
301	17.386	17.360	17.393	PV	21216	247104	0.79%	0.090%
302	17.419	17.393	17.441	VV	204627	2478747	7.89%	0.905%
303	17.461	17.441	17.490	VV	28177	426046	1.36%	0.156%

Sum of corrected areas: 273801462

FG061325.M Thu Jul 03 01:58:21 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG070225\
Data File : FG016209.D
Signal(s) : FID1A.ch
Acq On : 02 Jul 2025 20:06
Operator : YP\AJ
Sample : Q2484-03
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
TP-64

10

A B C D E F G

Integration File: autoint1.e
Quant Time: Jul 03 01:24:25 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG061325.M
Quant Title :
QLast Update : Fri Jun 13 12:34:28 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.204	634080	5.406 ug/ml
Target Compounds			

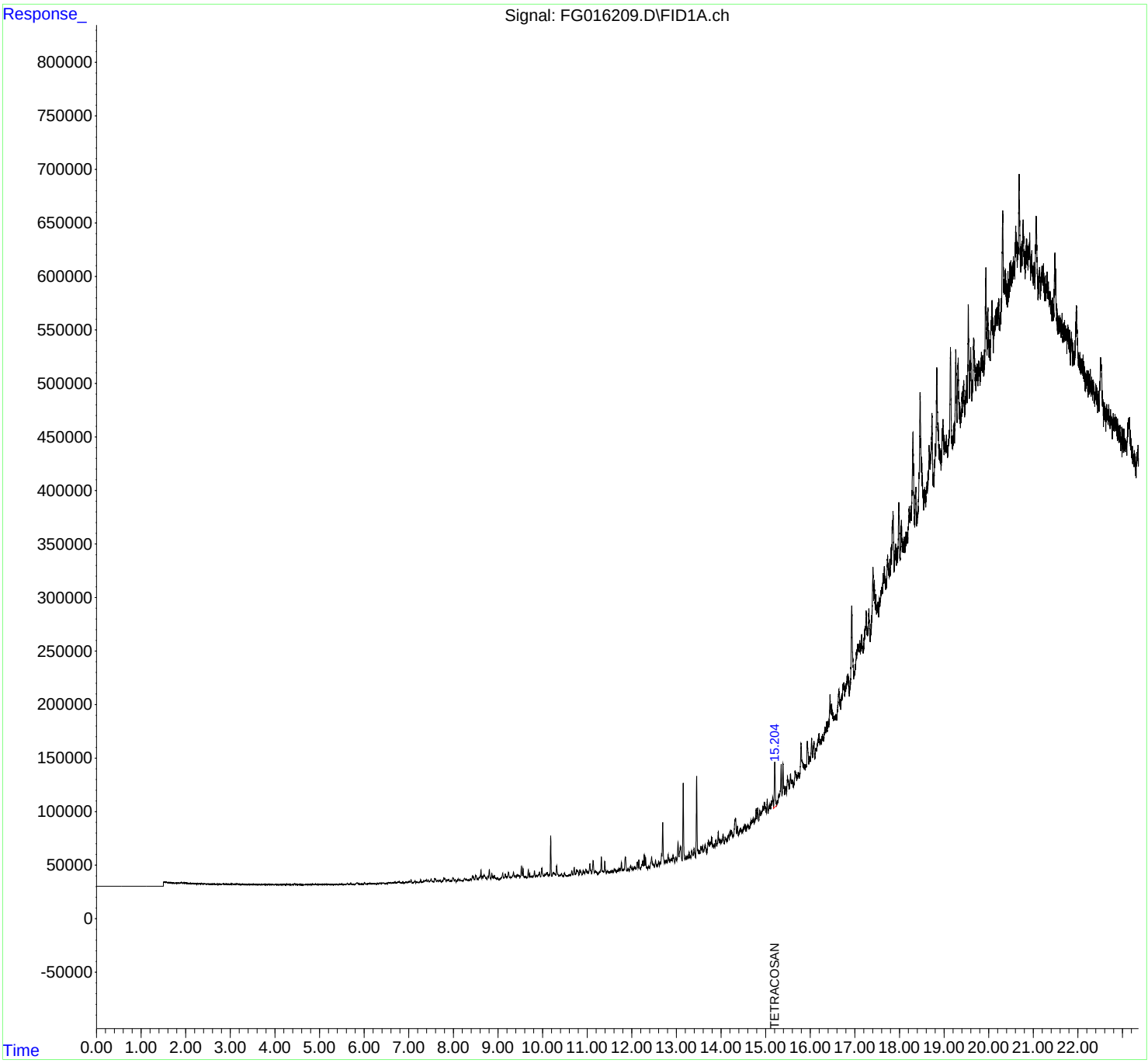
(f)=RT Delta > 1/2 Window (m)=manual int.

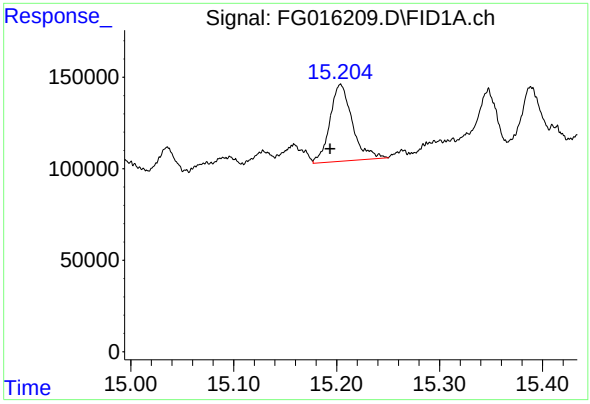
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG070225\
Data File : FG016209.D
Signal(s) : FID1A.ch
Acq On : 02 Jul 2025 20:06
Operator : YP\AJ
Sample : Q2484-03
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
TP-64

Integration File: autoint1.e
Quant Time: Jul 03 01:24:25 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG061325.M
Quant Title :
QLast Update : Fri Jun 13 12:34:28 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um





#9 TETRACOSANE-d50 (SURROGATE)

R.T.:	15.204 min
Delta R.T.:	0.010 min
Response:	634080
Conc:	5.41 ug/ml

Instrument :
FID_G
ClientSampleId :
TP-64

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A B C D E F G

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG070225\
Data File : FG016209.D
Signal(s) : FID1A.ch
Acq On : 02 Jul 2025 20:06
Sample : Q2484-03
Misc :
ALS Vial : 26 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG061325.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.517	4.500	4.521	BH	-17	-553	-0.00%	-0.000%
2	4.540	4.521	4.565	PH	240	2009	0.02%	0.001%
3	4.573	4.565	4.596	PH	56	-877	-0.01%	-0.000%
4	4.616	4.596	4.646	PH	20	-2507	-0.02%	-0.001%
5	4.653	4.646	4.658	PH	-91	-942	-0.01%	-0.000%
6	4.676	4.658	4.694	PH	171	640	0.01%	0.000%
7	4.715	4.694	4.734	PH	161	495	0.00%	0.000%
8	4.751	4.734	4.771	PH	174	1028	0.01%	0.000%
9	4.802	4.771	4.819	PH	419	3752	0.03%	0.001%
10	4.843	4.819	4.878	PH	563	8410	0.07%	0.003%
11	4.906	4.878	4.943	HH	554	9213	0.07%	0.003%
12	4.962	4.943	4.980	PH	299	2077	0.02%	0.001%
13	4.993	4.980	5.003	PH	293	2050	0.02%	0.001%
14	5.010	5.003	5.014	HH	87	280	0.00%	0.000%
15	5.021	5.014	5.026	HH	136	488	0.00%	0.000%
16	5.043	5.026	5.066	HH	202	2750	0.02%	0.001%
17	5.085	5.066	5.110	PH	214	2069	0.02%	0.001%
18	5.123	5.110	5.148	PH	476	5549	0.04%	0.002%
19	5.155	5.148	5.159	HH	310	1177	0.01%	0.000%
20	5.195	5.159	5.227	HH	528	9501	0.07%	0.003%
21	5.234	5.227	5.248	PH	107	451	0.00%	0.000%
22	5.260	5.248	5.283	PH	143	1009	0.01%	0.000%
23	5.290	5.283	5.319	PH	155	1027	0.01%	0.000%
24	5.331	5.319	5.348	PH	96	399	0.00%	0.000%
25	5.360	5.348	5.378	PH	297	2798	0.02%	0.001%
26	5.388	5.378	5.416	HH	433	4344	0.03%	0.001%
27	5.438	5.416	5.449	PH	266	2707	0.02%	0.001%
28	5.467	5.449	5.478	HH	701	6707	0.05%	0.002%
29	5.493	5.478	5.512	HH	534	7032	0.06%	0.002%
30	5.518	5.512	5.543	HH	199	1007	0.01%	0.000%
31	5.563	5.543	5.581	PH	155	825	0.01%	0.000%
32	5.623	5.581	5.649	PH	1532	22987	0.18%	0.007%
33	5.665	5.649	5.676	HH	502	7062	0.06%	0.002%
34	5.696	5.676	5.716	HH	1422	18746	0.15%	0.006%
35	5.725	5.716	5.741	HH	463	4429	0.03%	0.001%
36	5.755	5.741	5.789	HH	376	5396	0.04%	0.002%

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37	5.795	5.789	5.803	HH	175	656	0.01%	0.000%
38	5.839	5.803	5.866	HH	1806	41989	0.33%	0.013%
39	5.873	5.866	5.890	HH	759	8711	0.07%	0.003%
40	5.893	5.890	5.905	HH	500	3714	0.03%	0.001%
41	5.920	5.905	5.924	HH	545	4935	0.04%	0.002%
42	5.942	5.924	5.984	HH	713	16433	0.13%	0.005%
43	6.008	5.984	6.047	HH	2075	34395	0.27%	0.011%
44	6.065	6.047	6.078	HH	724	10589	0.08%	0.003%
45	6.092	6.078	6.098	HH	816	8162	0.06%	0.003%
46	6.114	6.098	6.128	HH	1465	19030	0.15%	0.006%
47	6.134	6.128	6.157	HH	1277	17423	0.14%	0.005%
48	6.170	6.157	6.186	HH	1378	16258	0.13%	0.005%
49	6.211	6.186	6.226	HH	1247	19341	0.15%	0.006%
50	6.249	6.226	6.277	HH	946	20904	0.16%	0.007%
51	6.303	6.277	6.320	HH	1318	21481	0.17%	0.007%
52	6.359	6.320	6.378	HH	1931	41747	0.33%	0.013%
53	6.398	6.378	6.417	HH	1688	29866	0.23%	0.009%
54	6.433	6.417	6.444	HH	1381	20534	0.16%	0.006%
55	6.447	6.444	6.467	HH	1354	14496	0.11%	0.005%
56	6.502	6.467	6.524	HH	1531	37131	0.29%	0.012%
57	6.545	6.524	6.572	HH	2241	46041	0.36%	0.015%
58	6.586	6.572	6.611	HH	2064	40582	0.32%	0.013%
59	6.626	6.611	6.639	HH	2050	28148	0.22%	0.009%
60	6.650	6.639	6.673	HH	2071	36061	0.28%	0.011%
61	6.691	6.673	6.713	HH	2868	49667	0.39%	0.016%
62	6.756	6.713	6.763	HH	2071	54126	0.42%	0.017%
63	6.782	6.763	6.796	HH	3052	51667	0.41%	0.016%
64	6.803	6.796	6.821	HH	2155	28124	0.22%	0.009%
65	6.832	6.821	6.839	HH	1773	17210	0.14%	0.005%
66	6.854	6.839	6.868	HH	2224	34037	0.27%	0.011%
67	6.869	6.868	6.887	HH	2170	20589	0.16%	0.006%
68	6.911	6.887	6.915	HH	1761	27576	0.22%	0.009%
69	6.936	6.915	6.940	HH	2551	33625	0.26%	0.011%
70	6.945	6.940	6.960	HH	2544	27255	0.21%	0.009%
71	6.971	6.960	6.979	HH	2162	23522	0.18%	0.007%
72	6.988	6.979	6.996	HH	2280	21668	0.17%	0.007%
73	7.010	6.996	7.027	HH	3311	49900	0.39%	0.016%
74	7.052	7.027	7.075	HH	4691	87189	0.68%	0.027%
75	7.085	7.075	7.097	HH	1781	21464	0.17%	0.007%
76	7.141	7.097	7.159	HH	3466	91390	0.72%	0.029%
77	7.175	7.159	7.184	HH	2449	32818	0.26%	0.010%
78	7.187	7.184	7.193	HH	2416	13853	0.11%	0.004%
79	7.196	7.193	7.214	HH	2433	26622	0.21%	0.008%
80	7.228	7.214	7.238	HH	2273	29600	0.23%	0.009%
81	7.267	7.238	7.291	HH	4733	93701	0.74%	0.030%
82	7.302	7.291	7.322	HH	2557	44383	0.35%	0.014%
83	7.341	7.322	7.354	HH	3461	59458	0.47%	0.019%
84	7.370	7.354	7.380	HH	4073	56564	0.44%	0.018%
85	7.395	7.380	7.415	HH	4519	78465	0.62%	0.025%
86	7.433	7.415	7.464	HH	4673	101890	0.80%	0.032%
87	7.502	7.464	7.540	HH	5404	165463	1.30%	0.052%
88	7.545	7.540	7.561	HH	2961	35064	0.28%	0.011%
89	7.583	7.561	7.590	HH	5627	72515	0.57%	0.023%

90	7.598	7.590	7.624	HH	5453	84535	0.66%	0.027%
91	7.638	7.624	7.663	HH	4008	80121	0.63%	0.025%
92	7.678	7.663	7.700	HH	4302	83207	0.65%	0.026%
93	7.708	7.700	7.733	HH	3841	63916	0.50%	0.020%
94	7.788	7.733	7.799	HH	6665	164610	1.29%	0.052%
95	7.809	7.799	7.837	HH	5658	106875	0.84%	0.034%
96	7.856	7.837	7.872	HH	4337	82358	0.65%	0.026%
97	7.889	7.872	7.919	HH	4336	110972	0.87%	0.035%
98	7.947	7.919	7.968	HH	3625	98740	0.78%	0.031%
99	7.988	7.968	8.023	HH	6652	167747	1.32%	0.053%
100	8.041	8.023	8.061	HH	4967	86532	0.68%	0.027%
101	8.107	8.061	8.121	HH	5435	143293	1.13%	0.045%
102	8.128	8.121	8.136	HH	4425	38793	0.30%	0.012%
103	8.147	8.136	8.165	HH	4857	74353	0.58%	0.023%
104	8.178	8.165	8.188	HH	3774	50795	0.40%	0.016%
105	8.204	8.188	8.217	HH	3700	61454	0.48%	0.019%
106	8.252	8.217	8.276	HH	6070	171477	1.35%	0.054%
107	8.291	8.276	8.317	HH	4851	111807	0.88%	0.035%
108	8.337	8.317	8.361	HH	4691	112131	0.88%	0.035%
109	8.385	8.361	8.408	HH	5293	132303	1.04%	0.042%
110	8.428	8.408	8.442	HH	8345	135058	1.06%	0.043%
111	8.448	8.442	8.483	HH	6757	137640	1.08%	0.043%
112	8.498	8.483	8.507	HH	8854	100818	0.79%	0.032%
113	8.512	8.507	8.530	HH	8095	97459	0.77%	0.031%
114	8.540	8.530	8.555	HH	5414	76040	0.60%	0.024%
115	8.577	8.555	8.594	HH	6984	144461	1.13%	0.046%
116	8.619	8.594	8.637	HH	13744	234448	1.84%	0.074%
117	8.649	8.637	8.662	HH	7803	105175	0.83%	0.033%
118	8.680	8.662	8.684	HH	8450	98617	0.77%	0.031%
119	8.695	8.684	8.728	HH	8667	197305	1.55%	0.062%
120	8.736	8.728	8.757	HH	6300	100124	0.79%	0.032%
121	8.775	8.757	8.786	HH	8185	120502	0.95%	0.038%
122	8.807	8.786	8.838	HH	14018	284138	2.23%	0.090%
123	8.863	8.838	8.879	HH	10625	187844	1.47%	0.059%
124	8.885	8.879	8.904	HH	6979	102553	0.81%	0.032%
125	8.920	8.904	8.943	HH	8573	163106	1.28%	0.051%
126	8.946	8.943	8.960	HH	6158	61700	0.48%	0.019%
127	8.970	8.960	8.983	HH	5788	78557	0.62%	0.025%
128	8.988	8.983	9.018	HH	5822	111959	0.88%	0.035%
129	9.106	9.018	9.133	HH	10771	455369	3.58%	0.144%
130	9.164	9.133	9.195	HH	10142	285415	2.24%	0.090%
131	9.206	9.195	9.213	HH	7154	76949	0.60%	0.024%
132	9.236	9.213	9.263	HH	11621	272561	2.14%	0.086%
133	9.272	9.263	9.287	HH	7230	95876	0.75%	0.030%
134	9.301	9.287	9.311	HH	7076	98743	0.78%	0.031%
135	9.325	9.311	9.332	HH	8396	97372	0.76%	0.031%
136	9.349	9.332	9.371	HH	11805	223665	1.76%	0.071%
137	9.386	9.371	9.408	HH	8778	174015	1.37%	0.055%
138	9.424	9.408	9.434	HH	8883	125708	0.99%	0.040%
139	9.444	9.434	9.465	HH	9158	160264	1.26%	0.051%
140	9.474	9.465	9.491	HH	8585	121501	0.95%	0.038%
141	9.525	9.491	9.545	HH	17119	341482	2.68%	0.108%

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142	9.563	9.545	9.585	HH	14990	256672	2.02%	0.081%
143	9.589	9.585	9.606	HH	7530	90207	0.71%	0.028%
144	9.623	9.606	9.648	HH	7718	179117	1.41%	0.056%
145	9.681	9.648	9.697	HH	13999	274073	2.15%	0.086%
146	9.712	9.697	9.727	HH	10639	154764	1.22%	0.049%
147	9.739	9.727	9.751	HH	7417	100278	0.79%	0.032%
148	9.766	9.751	9.780	HH	8345	134552	1.06%	0.042%
149	9.819	9.780	9.839	HH	13182	321635	2.53%	0.101%
150	9.864	9.839	9.891	HH	8632	246626	1.94%	0.078%
151	9.905	9.891	9.914	HH	9433	123262	0.97%	0.039%
152	9.929	9.914	9.958	HH	11723	243940	1.92%	0.077%
153	9.984	9.958	10.018	HH	15443	387418	3.04%	0.122%
154	10.051	10.018	10.066	HH	9873	256616	2.01%	0.081%
155	10.088	10.066	10.097	HH	10857	185169	1.45%	0.058%
156	10.108	10.097	10.127	HH	11532	179408	1.41%	0.057%
157	10.148	10.127	10.161	HH	9623	182898	1.44%	0.058%
158	10.182	10.161	10.208	HH	45680	595530	4.68%	0.188%
159	10.249	10.208	10.295	HH	11260	516146	4.05%	0.163%
160	10.315	10.295	10.371	HH	17719	514950	4.04%	0.162%
161	10.392	10.371	10.407	HH	8857	181753	1.43%	0.057%
162	10.425	10.407	10.467	HH	10216	314494	2.47%	0.099%
163	10.492	10.467	10.543	HH	10838	405917	3.19%	0.128%
164	10.559	10.543	10.569	HH	8376	128631	1.01%	0.041%
165	10.593	10.569	10.609	HH	9460	208277	1.64%	0.066%
166	10.654	10.609	10.684	HH	13138	451316	3.54%	0.142%
167	10.707	10.684	10.732	HH	15971	345554	2.71%	0.109%
168	10.763	10.732	10.781	HH	14177	344296	2.70%	0.109%
169	10.790	10.781	10.818	HH	12987	246564	1.94%	0.078%
170	10.834	10.818	10.852	HH	13904	247512	1.94%	0.078%
171	10.857	10.852	10.883	HH	12383	201662	1.58%	0.064%
172	10.909	10.883	10.925	HH	12827	285289	2.24%	0.090%
173	10.930	10.925	10.946	HH	11552	141975	1.11%	0.045%
174	10.969	10.946	11.003	HH	13955	419537	3.29%	0.132%
175	11.013	11.003	11.027	HH	12083	164948	1.30%	0.052%
176	11.059	11.027	11.099	HH	19408	601202	4.72%	0.190%
177	11.132	11.099	11.165	HH	22525	598069	4.70%	0.189%
178	11.188	11.165	11.244	HH	12450	543635	4.27%	0.171%
179	11.281	11.244	11.290	HH	12270	306923	2.41%	0.097%
180	11.317	11.290	11.337	HH	25797	487909	3.83%	0.154%
181	11.350	11.337	11.370	HH	12756	238790	1.87%	0.075%
182	11.394	11.370	11.434	HH	21532	562834	4.42%	0.177%
183	11.455	11.434	11.481	HH	13059	342926	2.69%	0.108%
184	11.501	11.481	11.508	HH	11987	191545	1.50%	0.060%
185	11.535	11.508	11.553	HH	12248	323775	2.54%	0.102%
186	11.569	11.553	11.588	HH	12579	256320	2.01%	0.081%
187	11.605	11.588	11.619	HH	14871	249644	1.96%	0.079%
188	11.630	11.619	11.653	HH	13910	257244	2.02%	0.081%
189	11.713	11.653	11.723	HH	13958	552230	4.34%	0.174%
190	11.737	11.723	11.748	HH	14643	205887	1.62%	0.065%
191	11.767	11.748	11.788	HH	20717	406256	3.19%	0.128%
192	11.799	11.788	11.812	HH	14106	192642	1.51%	0.061%
193	11.821	11.812	11.828	HH	14146	139402	1.09%	0.044%
194	11.853	11.828	11.891	HH	25379	709668	5.57%	0.224%

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195	11.922	11.891	11.941	HH	14530	408368	3.21%	0.129%
196	11.975	11.941	11.996	HH	17968	515138	4.04%	0.162%
197	12.013	11.996	12.031	HH	15379	305011	2.39%	0.096%
198	12.067	12.031	12.098	HH	16548	612488	4.81%	0.193%
199	12.123	12.098	12.142	HH	21119	489637	3.84%	0.154%
200	12.158	12.142	12.181	HH	23259	434469	3.41%	0.137%
201	12.191	12.181	12.197	HH	15257	145295	1.14%	0.046%
202	12.246	12.197	12.262	HH	21707	704886	5.53%	0.222%
203	12.278	12.262	12.295	HH	28095	451904	3.55%	0.142%
204	12.309	12.295	12.335	HH	25271	478878	3.76%	0.151%
205	12.342	12.335	12.355	HH	15838	188722	1.48%	0.059%
206	12.375	12.355	12.400	HH	17045	434153	3.41%	0.137%
207	12.444	12.400	12.462	HH	25780	760759	5.97%	0.240%
208	12.467	12.462	12.507	HH	19801	495445	3.89%	0.156%
209	12.532	12.507	12.553	HH	22819	549109	4.31%	0.173%
210	12.572	12.553	12.583	HH	18023	319620	2.51%	0.101%
211	12.602	12.583	12.619	HH	22260	428107	3.36%	0.135%
212	12.635	12.619	12.646	HH	21068	313933	2.46%	0.099%
213	12.668	12.646	12.676	HH	28540	437710	3.44%	0.138%
214	12.694	12.676	12.734	HH	58225	1187979	9.33%	0.374%
215	12.747	12.734	12.767	HH	22467	421978	3.31%	0.133%
216	12.780	12.767	12.797	HH	23277	393626	3.09%	0.124%
217	12.814	12.797	12.848	HH	28019	747818	5.87%	0.236%
218	12.861	12.848	12.873	HH	22928	334244	2.62%	0.105%
219	12.889	12.873	12.907	HH	23909	464435	3.65%	0.146%
220	12.924	12.907	12.964	HH	27811	830278	6.52%	0.262%
221	12.984	12.964	13.003	HH	26271	541488	4.25%	0.171%
222	13.037	13.003	13.058	HH	39602	989926	7.77%	0.312%
223	13.095	13.058	13.129	HH	35883	1264554	9.93%	0.399%
224	13.153	13.129	13.197	HH	94947	1741674	13.67%	0.549%
225	13.213	13.197	13.228	HH	25548	459826	3.61%	0.145%
226	13.231	13.228	13.239	HH	25022	164489	1.29%	0.052%
227	13.258	13.239	13.268	HH	26736	455620	3.58%	0.144%
228	13.284	13.268	13.306	HH	30210	625170	4.91%	0.197%
229	13.312	13.306	13.323	HH	26241	260961	2.05%	0.082%
230	13.347	13.323	13.373	HH	31813	864936	6.79%	0.273%
231	13.398	13.373	13.428	HH	32809	974832	7.65%	0.307%
232	13.454	13.428	13.500	HH	100797	2079899	16.33%	0.656%
233	13.514	13.500	13.529	HH	31950	522379	4.10%	0.165%
234	13.547	13.529	13.559	HH	35841	605896	4.76%	0.191%
235	13.563	13.559	13.573	HH	33966	282617	2.22%	0.089%
236	13.588	13.573	13.608	HH	35579	697851	5.48%	0.220%
237	13.645	13.608	13.683	HH	37500	1497960	11.76%	0.472%
238	13.719	13.683	13.736	HH	41102	1159800	9.11%	0.366%
239	13.763	13.736	13.772	HH	39585	817244	6.42%	0.258%
240	13.788	13.772	13.820	HH	43798	1152871	9.05%	0.363%
241	13.824	13.820	13.840	HH	36934	429023	3.37%	0.135%
242	13.853	13.840	13.865	HH	38128	549053	4.31%	0.173%
243	13.885	13.865	13.904	HH	42128	911455	7.16%	0.287%
244	13.939	13.904	13.966	HH	48648	1543157	12.12%	0.486%
245	13.979	13.966	13.992	HH	41955	631451	4.96%	0.199%
246	14.009	13.992	14.025	HH	40781	800023	6.28%	0.252%

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247	14.047	14.025	14.076	HH	47289	1309366	10.28%	0.413%
248	14.097	14.076	14.114	HH	44190	962432	7.56%	0.303%
249	14.121	14.114	14.138	HH	42729	593632	4.66%	0.187%
250	14.162	14.138	14.183	HH	46180	1168276	9.17%	0.368%
251	14.198	14.183	14.215	HH	49615	917552	7.20%	0.289%
252	14.227	14.215	14.245	HH	50681	877635	6.89%	0.277%
253	14.249	14.245	14.269	HH	48515	674371	5.29%	0.213%
254	14.276	14.269	14.280	HH	45412	294112	2.31%	0.093%
255	14.324	14.280	14.352	HH	62054	2333708	18.32%	0.736%
256	14.368	14.352	14.387	HH	53703	1058485	8.31%	0.334%
257	14.439	14.387	14.470	HH	52812	2480401	19.47%	0.782%
258	14.493	14.470	14.496	HH	51632	786347	6.17%	0.248%
259	14.510	14.496	14.525	HH	54396	908612	7.13%	0.286%
260	14.537	14.525	14.556	HH	56063	999243	7.85%	0.315%
261	14.600	14.556	14.625	HH	54691	2209159	17.34%	0.696%
262	14.636	14.625	14.650	HH	54304	806175	6.33%	0.254%
263	14.671	14.650	14.686	HH	60256	1229346	9.65%	0.388%
264	14.701	14.686	14.708	HH	60299	766256	6.02%	0.242%
265	14.722	14.708	14.743	HH	62486	1278369	10.04%	0.403%
266	14.788	14.743	14.805	HH	71044	2361989	18.54%	0.745%
267	14.822	14.805	14.845	HH	71719	1576991	12.38%	0.497%
268	14.867	14.845	14.887	HH	69050	1633672	12.83%	0.515%
269	14.910	14.887	14.915	HH	68722	1139599	8.95%	0.359%
270	14.935	14.915	14.952	HH	72783	1551905	12.18%	0.489%
271	14.973	14.952	14.990	HH	77235	1695260	13.31%	0.534%
272	14.995	14.990	15.018	HH	73154	1184666	9.30%	0.373%
273	15.036	15.018	15.056	HH	80197	1658356	13.02%	0.523%
274	15.096	15.056	15.110	HH	74896	2309310	18.13%	0.728%
275	15.129	15.110	15.140	HH	78396	1347080	10.58%	0.425%
276	15.159	15.140	15.177	HH	81654	1729627	13.58%	0.545%
277	15.204	15.177	15.250	HH	114636	3820341	29.99%	1.204%
278	15.264	15.250	15.272	HH	78062	998185	7.84%	0.315%
279	15.347	15.272	15.366	HH	112325	5005220	39.30%	1.578%
280	15.389	15.366	15.427	HH	113051	3442335	27.03%	1.085%
281	15.449	15.427	15.467	HH	91309	2155070	16.92%	0.679%
282	15.490	15.467	15.498	HH	101622	1744689	13.70%	0.550%
283	15.507	15.498	15.528	HH	98305	1659543	13.03%	0.523%
284	15.557	15.528	15.582	HH	102566	3122092	24.51%	0.984%
285	15.585	15.582	15.593	HH	95453	617483	4.85%	0.195%
286	15.598	15.593	15.619	HH	96989	1515119	11.90%	0.478%
287	15.663	15.619	15.697	HH	106163	4625685	36.32%	1.458%
288	15.712	15.697	15.719	HH	102348	1349766	10.60%	0.425%
289	15.732	15.719	15.739	HH	104277	1231400	9.67%	0.388%
290	15.743	15.739	15.761	HH	103810	1321937	10.38%	0.417%
291	15.795	15.761	15.838	HH	131631	5324974	41.81%	1.679%
292	15.849	15.838	15.859	HH	112441	1444072	11.34%	0.455%
293	15.870	15.859	15.890	HH	111623	2059092	16.17%	0.649%
294	15.903	15.890	15.912	HH	110700	1402508	11.01%	0.442%
295	15.934	15.912	15.967	HH	133970	4041956	31.73%	1.274%
296	15.981	15.967	16.003	HH	120187	2501342	19.64%	0.788%
297	16.031	16.003	16.052	HH	136774	3699443	29.05%	1.166%
298	16.085	16.052	16.101	HH	134251	3757510	29.50%	1.184%
299	16.124	16.101	16.128	HH	126718	1972102	15.48%	0.622%

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300	16.136	16.128	16.143	HH	127787	1137576	8.93%	0.359%
301	16.173	16.143	16.177	HH	134352	2676159	21.01%	0.844%
302	16.201	16.177	16.217	HH	141424	3213192	25.23%	1.013%
303	16.234	16.217	16.253	HH	135808	2868727	22.52%	0.904%
304	16.276	16.253	16.292	HH	140732	3205107	25.16%	1.010%
305	16.331	16.292	16.348	HH	147280	4802824	37.71%	1.514%
306	16.367	16.348	16.382	HH	151757	2947813	23.14%	0.929%
307	16.396	16.382	16.408	HH	152651	2381514	18.70%	0.751%
308	16.443	16.408	16.462	HH	176806	5188868	40.74%	1.636%
309	16.476	16.462	16.499	HH	168493	3645515	28.62%	1.149%
310	16.506	16.499	16.520	HH	160568	1967857	15.45%	0.620%
311	16.530	16.520	16.543	HH	157031	2094536	16.45%	0.660%
312	16.549	16.543	16.558	HH	156979	1453599	11.41%	0.458%
313	16.568	16.558	16.574	HH	158122	1481987	11.64%	0.467%
314	16.579	16.574	16.600	HH	158118	2460285	19.32%	0.776%
315	16.641	16.600	16.665	HH	182299	6711956	52.70%	2.116%
316	16.676	16.665	16.684	HH	170796	1901022	14.93%	0.599%
317	16.707	16.684	16.712	HH	177911	2845404	22.34%	0.897%
318	16.734	16.712	16.738	HH	186953	2842060	22.31%	0.896%
319	16.759	16.738	16.773	HH	188071	3876479	30.44%	1.222%
320	16.847	16.773	16.876	HH	196464	11502467	90.31%	3.626%
321	16.931	16.876	16.975	HH	260351	12554218	98.57%	3.957%
322	16.979	16.975	16.984	HH	197892	1079606	8.48%	0.340%
323	17.008	16.984	17.019	HH	205428	4214299	33.09%	1.328%
324	17.038	17.019	17.043	HH	219402	3054082	23.98%	0.963%
325	17.065	17.043	17.083	HH	223547	5313500	41.72%	1.675%
326	17.091	17.083	17.099	HH	221665	2090282	16.41%	0.659%
327	17.113	17.099	17.137	HH	227008	5020946	39.42%	1.583%
328	17.153	17.137	17.186	HH	232459	6607612	51.88%	2.083%
329	17.255	17.186	17.276	HH	254777	12736606	100.00%	4.015%
330	17.280	17.276	17.286	HH	235956	1414321	11.10%	0.446%
331	17.314	17.286	17.349	HH	257974	9073271	71.24%	2.860%
332	17.408	17.349	17.426	HH	295700	12034471	94.49%	3.794%
333	17.438	17.426	17.457	HH	284389	5117942	40.18%	1.613%
334	17.469	17.457	17.488	HH	270815	4785378	37.57%	1.508%
335	17.496	17.488	17.500	HHA	260864	1990375	15.63%	0.627%

Sum of corrected areas: 317235694

FG061325.M Thu Jul 03 10:11:17 2025

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

LAB CHRONICLE

OrderID:	Q2484	**OrderDate:**	7/2/2025 9:23:00 AM
Client:	CDM Smith	**Project:**	South River WM Replacement
Contact:	Marcie Ann Encinas	**Location:**	--Select--,A12,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2484-01	**TP-58**	**SOIL**			**07/01/25**			**07/01/25**
			Diesel Range Organics	8015D		07/02/25	07/03/25	
			Gasoline Range Organics	8015D			07/03/25	
			PCB	8082A		07/02/25	07/02/25	
			Pesticide-TCL	8081B		07/02/25	07/02/25	
Q2484-02	**TP-57**	**SOIL**			**07/01/25**			**07/01/25**
			Diesel Range Organics	8015D		07/02/25	07/02/25	
			Gasoline Range Organics	8015D			07/03/25	
			PCB	8082A		07/02/25	07/02/25	
			Pesticide-TCL	8081B		07/02/25	07/02/25	
Q2484-03	**TP-64**	**SOIL**			**07/01/25**			**07/01/25**
			Diesel Range Organics	8015D		07/02/25	07/03/25	
			Gasoline Range Organics	8015D			07/03/25	
			PCB	8082A		07/02/25	07/02/25	
			Pesticide-TCL	8081B		07/02/25	07/02/25	
Q2484-04	**TP-107**	**SOIL**			**07/01/25**			**07/01/25**
			Diesel Range Organics	8015D		07/02/25	07/02/25	
			Gasoline Range Organics	8015D			07/08/25	
			PCB	8082A		07/02/25	07/02/25	
			Pesticide-TCL	8081B		07/02/25	07/02/25	
Q2484-05	**TP-106**	**SOIL**			**07/01/25**			**07/01/25**
			Diesel Range Organics	8015D		07/02/25	07/02/25	
			Gasoline Range Organics	8015D			07/03/25	
			PCB	8082A		07/02/25	07/02/25	
			Pesticide-TCL	8081B		07/02/25	07/02/25	
Q2484-06	**TP-104**	**SOIL**			**07/01/25**			**07/01/25**
			Diesel Range Organics	8015D		07/02/25	07/02/25	

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LAB CHRONICLE

Gasoline Range Organics	8015D		07/03/25
PCB	8082A	07/02/25	07/02/25
Pesticide-TCL	8081B	07/02/25	07/02/25

SAMPLE DATA

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-58	SDG No.:	Q2484
Lab Sample ID:	Q2484-01	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	86.2 Decanted:
Sample Wt/Vol:	5.5 Units: g	Final Vol:	5 mL
Soil Aliquot Vol:	uL	Test:	Gasoline Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB032001.D	1	07/03/25 12:42	FB070325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	9.00	U	9.00	47.0	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	20.1		50 - 150	101%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-57	SDG No.:	Q2484
Lab Sample ID:	Q2484-02	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	86 Decanted:
Sample Wt/Vol:	3.5 Units: g	Final Vol:	5 mL
Soil Aliquot Vol:	uL	Test:	Gasoline Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB032002.D	1	07/03/25 13:10	FB070325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	15.0	J	14.0	75.0	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	16.2		50 - 150	81%	SPK: 20

Comments:

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D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-64	SDG No.:	Q2484
Lab Sample ID:	Q2484-03	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	88.4 Decanted:
Sample Wt/Vol:	3.7 Units: g	Final Vol:	5 mL
Soil Aliquot Vol:	uL	Test:	Gasoline Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB032003.D	1	07/03/25 13:37	FB070325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	13.0	U	13.0	69.0	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	14.8		50 - 150	74%	SPK: 20

Comments:

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LOQ = Limit of Quantitation
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LOD = Limit of Detection
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Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-107	SDG No.:	Q2484
Lab Sample ID:	Q2484-04	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	83.8 Decanted:
Sample Wt/Vol:	6 Units: g	Final Vol:	5 mL
Soil Aliquot Vol:	uL	Test:	Gasoline Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB032021.D	50	07/08/25 17:38	FB070825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	1540	J	411	2240	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	20.0		50 - 150	100%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-106	SDG No.:	Q2484
Lab Sample ID:	Q2484-05	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	87.9 Decanted:
Sample Wt/Vol:	4.85 Units: g	Final Vol:	5 mL
Soil Aliquot Vol:	uL	Test:	Gasoline Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB032005.D	1	07/03/25 14:32	FB070325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	10.0	U	10.0	53.0	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	19.1		50 - 150	96%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-104	SDG No.:	Q2484
Lab Sample ID:	Q2484-06	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	87.3 Decanted:
Sample Wt/Vol:	4.35 Units: g	Final Vol:	5 mL
Soil Aliquot Vol:	uL	Test:	Gasoline Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB032006.D	1	07/03/25 15:00	FB070325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	11.0	U	11.0	59.0	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	17.9		50 - 150	89%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

QC SUMMARY

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SOIL GASOLINE RANGE ORGANICS SURROGATE RECOVERY

Lab Name: Alliance Client: CDM Smith

Lab Code: ACE SDG No.: Q2484

CLIENT ID	S1 AAA-TFT	S2	S3	S4	TOT OUT
VBF0703S1	98				0
BSF0703S1	114				0
TP-58	101				0
TP-57	81				0
TP-64	74				0
TP-106	96				0
TP-104	89				0
BSF0703S2	93				0
VBF0708S2	76				0
BSF0708S1	91				0
TP-107	100				0

QC LIMITS

AAA-TFT

For Water : 50-150
For Soil : 50-150

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate Diluted Out

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SOIL GASOLINE RANGE ORGANICS LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATI

Lab Name: Alliance **Client:** CDM Smith

Lab Code: ACE **SDG No:** Q2484

Client Sample ID : BSF0703S1 **Datafile:** FB032000.D

COMPOUND	SPIKE ADDED ug/kg	CONCENTRATION ug/kg	LCS/LCSD CONCENTRATION ug/kg	% REC	QC LIMITS (%)
GRO	180	0	166	92	50-150

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SOIL GASOLINE RANGE ORGANICS LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICAT

Lab Name: Alliance **Client:** CDM Smith

Lab Code: ACE **SDG No:** Q2484

Client Sample ID : BSF0703S2 **Datafile:** FB032007.D

COMPOUND	SPIKE ADDED ug/kg	CONCENTRATION ug/kg	LCS/LCSD CONCENTRATION ug/kg	% REC	QC LIMITS (%)
GRO	180	0	172	96	50-150

LCS/LCSD % Recovery RPD : 3.6

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SOIL GASOLINE RANGE ORGANICS LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATI

Lab Name: Alliance **Client:** CDM Smith

Lab Code: ACE **SDG No:** Q2484

Client Sample ID : BSF0708S1 **Datafile:** FB032016.D

COMPOUND	SPIKE ADDED ug/kg	CONCENTRATION ug/kg	LCS/LCSD CONCENTRATION ug/kg	% REC	QC LIMITS (%)
GRO	180	0	157	87	50-150

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METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

VBF0703S1

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG NO.: Q2484

Lab File ID: FB031998.D Lab Sample ID: VBF0703S1

Date Analyzed: 07/03/25 Time Analyzed: 11:04

GC Column: RTX-502.2 ID: 0.53 (mm) Heated Purge: (Y/N) Y

Instrument ID: FB

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
BSF0703S1	BSF0703S1	FB032000.D	07/03/25
TP-58	Q2484-01	FB032001.D	07/03/25
TP-57	Q2484-02	FB032002.D	07/03/25
TP-64	Q2484-03	FB032003.D	07/03/25
TP-106	Q2484-05	FB032005.D	07/03/25
TP-104	Q2484-06	FB032006.D	07/03/25
BSF0703S2	BSF0703S2	FB032007.D	07/03/25

COMMENTS:

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METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

VBF0708S2

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG NO.: Q2484

Lab File ID: FB032015.D Lab Sample ID: VBF0708S2

Date Analyzed: 07/08/25 Time Analyzed: 14:37

GC Column: RTX-502.2 ID: 0.53 (mm) Heated Purge: (Y/N) Y

Instrument ID: FB

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
BSF0708S1	BSF0708S1	FB032016.D	07/08/25
TP-107	Q2484-04	FB032021.D	07/08/25

COMMENTS:

QC SAMPLE DATA

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VBF0703S1	SDG No.:	Q2484
Lab Sample ID:	VBF0703S1	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	100 Decanted:
Sample Wt/Vol:	5 Units: g	Final Vol:	5 mL
Soil Aliquot Vol:	uL	Test:	Gasoline Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB031998.D	1	07/03/25 11:04	FB070325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	8.00	U	8.00	45.0	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	19.6		50 - 150	98%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VBF0708S2	SDG No.:	Q2484
Lab Sample ID:	VBF0708S2	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	100 Decanted:
Sample Wt/Vol:	5 Units: g	Final Vol:	5 mL
Soil Aliquot Vol:	uL	Test:	Gasoline Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB032015.D	50	07/08/25 14:37	FB070825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	413	U	413	2250	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	15.1		50 - 150	76%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
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Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
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() = Laboratory InHouse Limit

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	BSF0703S1	SDG No.:	Q2484
Lab Sample ID:	BSF0703S1	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	100 Decanted:
Sample Wt/Vol:	5 Units: g	Final Vol:	5 mL
Soil Aliquot Vol:	uL	Test:	Gasoline Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB032000.D	1	07/03/25 11:59	FB070325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	166		8.00	45.0	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	22.7		50 - 150	114%	SPK: 20

Comments:

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LOQ = Limit of Quantitation
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LOD = Limit of Detection
E = Value Exceeds Calibration Range
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D = Dilution
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() = Laboratory InHouse Limit

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	BSF0708S1	SDG No.:	Q2484
Lab Sample ID:	BSF0708S1	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	100 Decanted:
Sample Wt/Vol:	5 Units: g	Final Vol:	5 mL
Soil Aliquot Vol:	uL	Test:	Gasoline Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB032016.D	1	07/08/25 15:04	FB070825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	157		8.00	45.0	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	18.3		50 - 150	91%	SPK: 20

Comments:

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LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
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B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	BSF0703S2	SDG No.:	Q2484
Lab Sample ID:	BSF0703S2	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	100 Decanted:
Sample Wt/Vol:	5 Units: g	Final Vol:	5 mL
Soil Aliquot Vol:	uL	Test:	Gasoline Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB032007.D	1	07/03/25 15:28	FB070325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	172		8.00	45.0	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	18.5		50 - 150	93%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
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J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

CALIBRATION SUMMARY

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GASOLINE RANGE ORGANICS INITIAL CALIBRATION SUMMARY

Lab Name: Alliance
Contract: CAMP02
ProjectID: South River WM Replacement
Lab Code: ACE
SDG No.: Q2484

Calibration Sequence : FB062325		Test : Gasoline Range Organics	
Concentration (PPB)	**Area Count**	**Reference Factor**	**File ID**
45	1490557	33123	FB031909.D
90	2566530	28517	FB031910.D
180	5166210	28701	FB031911.D
450	12609856	28022	FB031912.D
900	27368301	30409	FB031913.D
AVG RF : 29754	**% RSD : 7.013**		**AVG RT : 8.798**

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GASOLINE RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

20 PPB GRO STD

Lab Name: Alliane Contract: CAMP02

ProjectID: South River WM Replacement

Lab Code: ACE SDG No.: Q2484

DataFile: FB031997.D Analyst Name: YP/AJ Analyst Date: 07-03-2025

Conc. (PPB)	Area Count	RF	Average RF	%D
180	4931057	27395	29754	7.928

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GASOLINE RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

20 PPB GRO STD

Lab Name: Alliane Contract: CAMP02

ProjectID: South River WM Replacement

Lab Code: ACE SDG No.: Q2484

DataFile: FB032008.D Analyst Name: YP/AJ Analyst Date: 07-03-2025

Conc. (PPB)	Area Count	RF	Average RF	%D
180	5037472	27986	29754	5.942

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GASOLINE RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

20 PPB GRO STD

Lab Name: Alliane Contract: CAMP02

ProjectID: South River WM Replacement

Lab Code: ACE SDG No.: Q2484

DataFile: FB032013.D Analyst Name: YP/AJ Analyst Date: 07-08-2025

Conc. (PPB)	Area Count	RF	Average RF	%D
180	5048972	28050	29754	5.727

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GASOLINE RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

20 PPB GRO STD

Lab Name: Alliane Contract: CAMP02

ProjectID: South River WM Replacement

Lab Code: ACE SDG No.: Q2484

DataFile: FB032024.D Analyst Name: YP/AJ Analyst Date: 07-08-2025

Conc. (PPB)	Area Count	RF	Average RF	%D
180	4789999	26611	29754	10.563

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Analytical Sequence

Client: CDM Smith **SDG No.:** Q2484

Project: South River WM Replacement **Instrument ID:** FID_B

GC Column: RTX-502.2 **ID:** 0.53 **(mm)**

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SUROGATE RT FROM INITIAL CALIBRATION **8.798**

CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE AND TIME ANALYZED	DATAFILE	RT	#
20 PPB GRO STD	20 PPB GRO STD	3 Jul 2025 9:45	FB031997.D	8.797	
VBF0703S1	VBF0703S1	3 Jul 2025 11:04	FB031998.D	8.801	
BSF0703S1	BSF0703S1	3 Jul 2025 11:59	FB032000.D	8.800	
TP-58	Q2484-01	3 Jul 2025 12:42	FB032001.D	8.802	
TP-57	Q2484-02	3 Jul 2025 13:10	FB032002.D	8.800	
TP-64	Q2484-03	3 Jul 2025 13:37	FB032003.D	8.800	
TP-106	Q2484-05	3 Jul 2025 14:32	FB032005.D	8.802	
TP-104	Q2484-06	3 Jul 2025 15:00	FB032006.D	8.802	
BSF0703S2	BSF0703S2	3 Jul 2025 15:28	FB032007.D	8.802	
20 PPB GRO STD	20 PPB GRO STD	3 Jul 2025 15:55	FB032008.D	8.803	
20 PPB GRO STD	20 PPB GRO STD	8 Jul 2025 13:27	FB032013.D	8.800	
VBF0708S2	VBF0708S2	8 Jul 2025 14:37	FB032015.D	8.801	
BSF0708S1	BSF0708S1	8 Jul 2025 15:04	FB032016.D	8.801	
TP-107	Q2484-04	8 Jul 2025 17:38	FB032021.D	8.797	
20 PPB GRO STD	20 PPB GRO STD	8 Jul 2025 19:01	FB032024.D	8.803	

 # Column used to flag RT values with an * values outside of QC limits

QC Limits	Lower Limit	Upper Limits
(± 0.10 minutes)	8.698	8.898

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LAB CHRONICLE

OrderID:	Q2484	**OrderDate:**	7/2/2025 9:23:00 AM
Client:	CDM Smith	**Project:**	South River WM Replacement
Contact:	Marcie Ann Encinas	**Location:**	--Select--,A12,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2484-01	**TP-58**	**SOIL**			**07/01/25**			**07/01/25**
			Mercury	7471B		07/02/25	07/03/25	
			Metals ICP-TAL	6010D		07/03/25	07/07/25	
Q2484-02	**TP-57**	**SOIL**			**07/01/25**			**07/01/25**
			Mercury	7471B		07/02/25	07/03/25	
			Metals ICP-TAL	6010D		07/03/25	07/09/25	
Q2484-03	**TP-64**	**SOIL**			**07/01/25**			**07/01/25**
			Mercury	7471B		07/02/25	07/03/25	
			Metals ICP-TAL	6010D		07/03/25	07/09/25	
Q2484-04	**TP-107**	**SOIL**			**07/01/25**			**07/01/25**
			Mercury	7471B		07/02/25	07/03/25	
			Metals ICP-TAL	6010D		07/03/25	07/09/25	
Q2484-05	**TP-106**	**SOIL**			**07/01/25**			**07/01/25**
			Mercury	7471B		07/02/25	07/03/25	
			Metals ICP-TAL	6010D		07/03/25	07/09/25	
Q2484-06	**TP-104**	**SOIL**			**07/01/25**			**07/01/25**
			Mercury	7471B		07/02/25	07/03/25	
			Metals ICP-TAL	6010D		07/03/25	07/15/25	

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Hit Summary Sheet
SW-846

SDG No.: Q2484 **Order ID:** Q2484

Client: CDM Smith **Project ID:** South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : TP-58								
Q2484-01	TP-58	SOIL	Aluminum	2830		0.83	4.92	mg/Kg
Q2484-01	TP-58	SOIL	Antimony	0.44	J	0.22	2.46	mg/Kg
Q2484-01	TP-58	SOIL	Arsenic	6.73		0.19	0.98	mg/Kg
Q2484-01	TP-58	SOIL	Barium	12.5		0.72	4.92	mg/Kg
Q2484-01	TP-58	SOIL	Beryllium	0.35		0.025	0.30	mg/Kg
Q2484-01	TP-58	SOIL	Calcium	627		10.9	98.3	mg/Kg
Q2484-01	TP-58	SOIL	Chromium	8.80		0.046	0.49	mg/Kg
Q2484-01	TP-58	SOIL	Cobalt	1.21	J	0.098	1.47	mg/Kg
Q2484-01	TP-58	SOIL	Copper	6.02		0.22	0.98	mg/Kg
Q2484-01	TP-58	SOIL	Iron	21400		3.92	4.92	mg/Kg
Q2484-01	TP-58	SOIL	Lead	32.1		0.13	0.59	mg/Kg
Q2484-01	TP-58	SOIL	Magnesium	270		11.8	98.3	mg/Kg
Q2484-01	TP-58	SOIL	Manganese	21.8		0.14	0.98	mg/Kg
Q2484-01	TP-58	SOIL	Mercury	0.012	J	0.0080	0.015	mg/Kg
Q2484-01	TP-58	SOIL	Nickel	3.12		0.13	1.97	mg/Kg
Q2484-01	TP-58	SOIL	Potassium	297		27.2	98.3	mg/Kg
Q2484-01	TP-58	SOIL	Selenium	0.94	J	0.26	0.98	mg/Kg
Q2484-01	TP-58	SOIL	Sodium	114		17.5	98.3	mg/Kg
Q2484-01	TP-58	SOIL	Thallium	0.76	J	0.23	1.97	mg/Kg
Q2484-01	TP-58	SOIL	Vanadium	18.8		0.25	1.97	mg/Kg
Q2484-01	TP-58	SOIL	Zinc	11.8		0.23	1.97	mg/Kg
Client ID : TP-57								
Q2484-02	TP-57	SOIL	Aluminum	4860		0.86	5.12	mg/Kg
Q2484-02	TP-57	SOIL	Antimony	1.33	J	0.23	2.56	mg/Kg
Q2484-02	TP-57	SOIL	Arsenic	7.38		0.20	1.02	mg/Kg
Q2484-02	TP-57	SOIL	Barium	27.5		0.75	5.12	mg/Kg
Q2484-02	TP-57	SOIL	Beryllium	0.59		0.026	0.31	mg/Kg
Q2484-02	TP-57	SOIL	Calcium	959		11.4	102	mg/Kg
Q2484-02	TP-57	SOIL	Chromium	11.5		0.048	0.51	mg/Kg
Q2484-02	TP-57	SOIL	Cobalt	1.75		0.10	1.54	mg/Kg
Q2484-02	TP-57	SOIL	Copper	6.28		0.23	1.02	mg/Kg
Q2484-02	TP-57	SOIL	Iron	22800		4.09	5.12	mg/Kg
Q2484-02	TP-57	SOIL	Lead	51.5		0.13	0.62	mg/Kg
Q2484-02	TP-57	SOIL	Magnesium	219		12.3	102	mg/Kg
Q2484-02	TP-57	SOIL	Manganese	44.9		0.14	1.02	mg/Kg
Q2484-02	TP-57	SOIL	Mercury	0.071		0.0090	0.015	mg/Kg
Q2484-02	TP-57	SOIL	Nickel	3.33		0.13	2.05	mg/Kg

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Hit Summary Sheet
SW-846

SDG No.: Q2484 **Order ID:** Q2484

Client: CDM Smith **Project ID:** South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q2484-02	TP-57	SOIL	Potassium	333		28.4	102	mg/Kg
Q2484-02	TP-57	SOIL	Selenium	5.75		0.27	1.02	mg/Kg
Q2484-02	TP-57	SOIL	Sodium	226		18.2	102	mg/Kg
Q2484-02	TP-57	SOIL	Vanadium	25.0		0.26	2.05	mg/Kg
Q2484-02	TP-57	SOIL	Zinc	30.1		0.11	2.05	mg/Kg
Client ID : TP-64								
Q2484-03	TP-64	SOIL	Aluminum	5760		0.82	4.88	mg/Kg
Q2484-03	TP-64	SOIL	Antimony	1.71	J	0.22	2.44	mg/Kg
Q2484-03	TP-64	SOIL	Arsenic	5.52		0.19	0.98	mg/Kg
Q2484-03	TP-64	SOIL	Barium	19.8		0.71	4.88	mg/Kg
Q2484-03	TP-64	SOIL	Beryllium	0.56		0.024	0.29	mg/Kg
Q2484-03	TP-64	SOIL	Calcium	14000		10.8	97.5	mg/Kg
Q2484-03	TP-64	SOIL	Chromium	12.0		0.046	0.49	mg/Kg
Q2484-03	TP-64	SOIL	Cobalt	4.88		0.098	1.46	mg/Kg
Q2484-03	TP-64	SOIL	Copper	16.7		0.22	0.98	mg/Kg
Q2484-03	TP-64	SOIL	Iron	17300		3.89	4.88	mg/Kg
Q2484-03	TP-64	SOIL	Lead	10.9		0.13	0.59	mg/Kg
Q2484-03	TP-64	SOIL	Magnesium	4120		11.7	97.5	mg/Kg
Q2484-03	TP-64	SOIL	Manganese	70.9		0.14	0.98	mg/Kg
Q2484-03	TP-64	SOIL	Mercury	0.022		0.0090	0.016	mg/Kg
Q2484-03	TP-64	SOIL	Nickel	6.94		0.13	1.95	mg/Kg
Q2484-03	TP-64	SOIL	Potassium	429		27.0	97.5	mg/Kg
Q2484-03	TP-64	SOIL	Selenium	2.59		0.25	0.98	mg/Kg
Q2484-03	TP-64	SOIL	Sodium	354		17.4	97.5	mg/Kg
Q2484-03	TP-64	SOIL	Vanadium	35.8		0.24	1.95	mg/Kg
Q2484-03	TP-64	SOIL	Zinc	20.0		0.11	1.95	mg/Kg
Client ID : TP-107								
Q2484-04	TP-107	SOIL	Aluminum	9270		0.88	5.26	mg/Kg
Q2484-04	TP-107	SOIL	Antimony	1.66	J	0.23	2.63	mg/Kg
Q2484-04	TP-107	SOIL	Arsenic	11.8		0.20	1.05	mg/Kg
Q2484-04	TP-107	SOIL	Barium	28.0		0.77	5.26	mg/Kg
Q2484-04	TP-107	SOIL	Beryllium	0.91		0.026	0.32	mg/Kg
Q2484-04	TP-107	SOIL	Calcium	478		11.7	105	mg/Kg
Q2484-04	TP-107	SOIL	Chromium	26.4		0.049	0.53	mg/Kg
Q2484-04	TP-107	SOIL	Cobalt	4.10		0.11	1.58	mg/Kg
Q2484-04	TP-107	SOIL	Copper	2.95		0.23	1.05	mg/Kg
Q2484-04	TP-107	SOIL	Iron	27700		4.20	5.26	mg/Kg
Q2484-04	TP-107	SOIL	Lead	11.9		0.14	0.63	mg/Kg
Q2484-04	TP-107	SOIL	Magnesium	557		12.6	105	mg/Kg

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Hit Summary Sheet
SW-846

SDG No.: Q2484 **Order ID:** Q2484

Client: CDM Smith **Project ID:** South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q2484-04	TP-107	SOIL	Manganese	71.8		0.15	1.05	mg/Kg
Q2484-04	TP-107	SOIL	Mercury	0.053		0.0080	0.015	mg/Kg
Q2484-04	TP-107	SOIL	Nickel	5.87		0.14	2.10	mg/Kg
Q2484-04	TP-107	SOIL	Potassium	303		29.1	105	mg/Kg
Q2484-04	TP-107	SOIL	Selenium	7.40		0.27	1.05	mg/Kg
Q2484-04	TP-107	SOIL	Sodium	142		18.7	105	mg/Kg
Q2484-04	TP-107	SOIL	Vanadium	43.2		0.26	2.10	mg/Kg
Q2484-04	TP-107	SOIL	Zinc	17.6		0.12	2.10	mg/Kg
Client ID :	**TP-106**							
Q2484-05	TP-106	SOIL	Aluminum	8890		0.78	4.62	mg/Kg
Q2484-05	TP-106	SOIL	Antimony	1.73	J	0.20	2.31	mg/Kg
Q2484-05	TP-106	SOIL	Arsenic	9.95		0.18	0.93	mg/Kg
Q2484-05	TP-106	SOIL	Barium	17.9		0.68	4.62	mg/Kg
Q2484-05	TP-106	SOIL	Beryllium	0.99		0.023	0.28	mg/Kg
Q2484-05	TP-106	SOIL	Calcium	365		10.3	92.5	mg/Kg
Q2484-05	TP-106	SOIL	Chromium	36.0		0.043	0.46	mg/Kg
Q2484-05	TP-106	SOIL	Cobalt	4.70		0.092	1.39	mg/Kg
Q2484-05	TP-106	SOIL	Copper	2.51		0.20	0.93	mg/Kg
Q2484-05	TP-106	SOIL	Iron	25500		3.69	4.62	mg/Kg
Q2484-05	TP-106	SOIL	Lead	9.18		0.12	0.56	mg/Kg
Q2484-05	TP-106	SOIL	Magnesium	507		11.1	92.5	mg/Kg
Q2484-05	TP-106	SOIL	Manganese	56.0		0.13	0.93	mg/Kg
Q2484-05	TP-106	SOIL	Mercury	0.031		0.0090	0.016	mg/Kg
Q2484-05	TP-106	SOIL	Nickel	6.34		0.12	1.85	mg/Kg
Q2484-05	TP-106	SOIL	Potassium	392		25.6	92.5	mg/Kg
Q2484-05	TP-106	SOIL	Selenium	6.21		0.24	0.93	mg/Kg
Q2484-05	TP-106	SOIL	Sodium	299		16.5	92.5	mg/Kg
Q2484-05	TP-106	SOIL	Vanadium	36.0		0.23	1.85	mg/Kg
Q2484-05	TP-106	SOIL	Zinc	18.3		0.10	1.85	mg/Kg
Client ID :	**TP-104**							
Q2484-06	TP-104	SOIL	Aluminum	9230		0.80	4.77	mg/Kg
Q2484-06	TP-104	SOIL	Antimony	1.16	J	0.21	2.39	mg/Kg
Q2484-06	TP-104	SOIL	Arsenic	7.48		0.18	0.96	mg/Kg
Q2484-06	TP-104	SOIL	Barium	24.3		0.70	4.77	mg/Kg
Q2484-06	TP-104	SOIL	Beryllium	0.73		0.024	0.29	mg/Kg
Q2484-06	TP-104	SOIL	Calcium	353		10.6	95.5	mg/Kg
Q2484-06	TP-104	SOIL	Chromium	15.8		0.045	0.48	mg/Kg
Q2484-06	TP-104	SOIL	Copper	4.84		0.21	0.96	mg/Kg
Q2484-06	TP-104	SOIL	Iron	19400		3.81	4.77	mg/Kg

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Hit Summary Sheet
SW-846

SDG No.: Q2484 **Order ID:** Q2484

Client: CDM Smith **Project ID:** South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q2484-06	TP-104	SOIL	Lead	13.1		0.12	0.57	mg/Kg
Q2484-06	TP-104	SOIL	Magnesium	717		11.5	95.5	mg/Kg
Q2484-06	TP-104	SOIL	Manganese	73.8		0.13	0.96	mg/Kg
Q2484-06	TP-104	SOIL	Mercury	0.039		0.0080	0.015	mg/Kg
Q2484-06	TP-104	SOIL	Nickel	7.27		0.12	1.91	mg/Kg
Q2484-06	TP-104	SOIL	Potassium	420		26.4	95.5	mg/Kg
Q2484-06	TP-104	SOIL	Selenium	4.47		0.25	0.96	mg/Kg
Q2484-06	TP-104	SOIL	Sodium	253		17.0	95.5	mg/Kg
Q2484-06	TP-104	SOIL	Vanadium	30.8		0.24	1.91	mg/Kg
Q2484-06	TP-104	SOIL	Zinc	16.3		0.11	1.91	mg/Kg

SAMPLE DATA

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-58	SDG No.:	Q2484
Lab Sample ID:	Q2484-01	Matrix:	SOIL
Level (low/med):	low	% Solid:	86.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	2830		1	0.83	4.92	mg/Kg	07/03/25 10:30	07/07/25 17:26	6010D	SW3050
7440-36-0	Antimony	0.44	JN	1	0.22	2.46	mg/Kg	07/03/25 10:30	07/07/25 17:26	6010D	SW3050
7440-38-2	Arsenic	6.73		1	0.19	0.98	mg/Kg	07/03/25 10:30	07/07/25 17:26	6010D	SW3050
7440-39-3	Barium	12.5		1	0.72	4.92	mg/Kg	07/03/25 10:30	07/07/25 17:26	6010D	SW3050
7440-41-7	Beryllium	0.35		1	0.025	0.30	mg/Kg	07/03/25 10:30	07/07/25 17:26	6010D	SW3050
7440-43-9	Cadmium	0.024	U	1	0.024	0.30	mg/Kg	07/03/25 10:30	07/07/25 17:26	6010D	SW3050
7440-70-2	Calcium	627	*	1	10.9	98.3	mg/Kg	07/03/25 10:30	07/07/25 17:26	6010D	SW3050
7440-47-3	Chromium	8.80		1	0.046	0.49	mg/Kg	07/03/25 10:30	07/07/25 17:26	6010D	SW3050
7440-48-4	Cobalt	1.21	J	1	0.098	1.47	mg/Kg	07/03/25 10:30	07/07/25 17:26	6010D	SW3050
7440-50-8	Copper	6.02		1	0.22	0.98	mg/Kg	07/03/25 10:30	07/07/25 17:26	6010D	SW3050
7439-89-6	Iron	21400		1	3.92	4.92	mg/Kg	07/03/25 10:30	07/07/25 17:26	6010D	SW3050
7439-92-1	Lead	32.1		1	0.13	0.59	mg/Kg	07/03/25 10:30	07/07/25 17:26	6010D	SW3050
7439-95-4	Magnesium	270		1	11.8	98.3	mg/Kg	07/03/25 10:30	07/07/25 17:26	6010D	SW3050
7439-96-5	Manganese	21.8		1	0.14	0.98	mg/Kg	07/03/25 10:30	07/07/25 17:26	6010D	SW3050
7439-97-6	Mercury	0.012	J	1	0.0080	0.015	mg/Kg	07/02/25 16:25	07/03/25 11:55	7471B	
7440-02-0	Nickel	3.12		1	0.13	1.97	mg/Kg	07/03/25 10:30	07/07/25 17:26	6010D	SW3050
7440-09-7	Potassium	297		1	27.2	98.3	mg/Kg	07/03/25 10:30	07/07/25 17:26	6010D	SW3050
7782-49-2	Selenium	0.94	JN	1	0.26	0.98	mg/Kg	07/03/25 10:30	07/07/25 17:26	6010D	SW3050
7440-22-4	Silver	0.12	UN	1	0.12	0.49	mg/Kg	07/03/25 10:30	07/07/25 17:26	6010D	SW3050
7440-23-5	Sodium	114	N	1	17.5	98.3	mg/Kg	07/03/25 10:30	07/07/25 17:26	6010D	SW3050
7440-28-0	Thallium	0.76	J	1	0.23	1.97	mg/Kg	07/03/25 10:30	07/07/25 17:26	6010D	SW3050
7440-62-2	Vanadium	18.8		1	0.25	1.97	mg/Kg	07/03/25 10:30	07/07/25 17:26	6010D	SW3050
7440-66-6	Zinc	11.8		1	0.23	1.97	mg/Kg	07/03/25 10:30	07/07/25 17:26	6010D	SW3050

Color Before:	Brown	Clarity Before:		Texture:	Medium
Color After:	Yellow	Clarity After:		Artifacts:	
Comments:	METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-57	SDG No.:	Q2484
Lab Sample ID:	Q2484-02	Matrix:	SOIL
Level (low/med):	low	% Solid:	86

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	4860		1	0.86	5.12	mg/Kg	07/03/25 10:30	07/09/25 17:19	6010D	SW3050
7440-36-0	Antimony	1.33	JN	1	0.23	2.56	mg/Kg	07/03/25 10:30	07/09/25 17:19	6010D	SW3050
7440-38-2	Arsenic	7.38		1	0.20	1.02	mg/Kg	07/03/25 10:30	07/09/25 17:19	6010D	SW3050
7440-39-3	Barium	27.5		1	0.75	5.12	mg/Kg	07/03/25 10:30	07/09/25 17:19	6010D	SW3050
7440-41-7	Beryllium	0.59		1	0.026	0.31	mg/Kg	07/03/25 10:30	07/09/25 17:19	6010D	SW3050
7440-43-9	Cadmium	0.025	U	1	0.025	0.31	mg/Kg	07/03/25 10:30	07/09/25 17:19	6010D	SW3050
7440-70-2	Calcium	959	*	1	11.4	102	mg/Kg	07/03/25 10:30	07/09/25 17:19	6010D	SW3050
7440-47-3	Chromium	11.5		1	0.048	0.51	mg/Kg	07/03/25 10:30	07/09/25 17:19	6010D	SW3050
7440-48-4	Cobalt	1.75		1	0.10	1.54	mg/Kg	07/03/25 10:30	07/09/25 17:19	6010D	SW3050
7440-50-8	Copper	6.28		1	0.23	1.02	mg/Kg	07/03/25 10:30	07/09/25 17:19	6010D	SW3050
7439-89-6	Iron	22800		1	4.09	5.12	mg/Kg	07/03/25 10:30	07/09/25 17:19	6010D	SW3050
7439-92-1	Lead	51.5		1	0.13	0.62	mg/Kg	07/03/25 10:30	07/09/25 17:19	6010D	SW3050
7439-95-4	Magnesium	219		1	12.3	102	mg/Kg	07/03/25 10:30	07/09/25 17:19	6010D	SW3050
7439-96-5	Manganese	44.9		1	0.14	1.02	mg/Kg	07/03/25 10:30	07/09/25 17:19	6010D	SW3050
7439-97-6	Mercury	0.071		1	0.0090	0.015	mg/Kg	07/02/25 16:25	07/03/25 11:57	7471B	
7440-02-0	Nickel	3.33		1	0.13	2.05	mg/Kg	07/03/25 10:30	07/09/25 17:19	6010D	SW3050
7440-09-7	Potassium	333		1	28.4	102	mg/Kg	07/03/25 10:30	07/09/25 17:19	6010D	SW3050
7782-49-2	Selenium	5.75	N	1	0.27	1.02	mg/Kg	07/03/25 10:30	07/09/25 17:19	6010D	SW3050
7440-22-4	Silver	0.12	UN	1	0.12	0.51	mg/Kg	07/03/25 10:30	07/09/25 17:19	6010D	SW3050
7440-23-5	Sodium	226	N	1	18.2	102	mg/Kg	07/03/25 10:30	07/09/25 17:19	6010D	SW3050
7440-28-0	Thallium	0.24	U	1	0.24	2.05	mg/Kg	07/03/25 10:30	07/09/25 17:19	6010D	SW3050
7440-62-2	Vanadium	25.0		1	0.26	2.05	mg/Kg	07/03/25 10:30	07/09/25 17:19	6010D	SW3050
7440-66-6	Zinc	30.1		1	0.11	2.05	mg/Kg	07/03/25 10:30	07/09/25 17:19	6010D	SW3050

Color Before:	Brown	Clarity Before:		Texture:	Medium
Color After:	Yellow	Clarity After:		Artifacts:	
Comments:	METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-64	SDG No.:	Q2484
Lab Sample ID:	Q2484-03	Matrix:	SOIL
Level (low/med):	low	% Solid:	88.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	5760		1	0.82	4.88	mg/Kg	07/03/25 10:30	07/09/25 17:23	6010D	SW3050
7440-36-0	Antimony	1.71	JN	1	0.22	2.44	mg/Kg	07/03/25 10:30	07/09/25 17:23	6010D	SW3050
7440-38-2	Arsenic	5.52		1	0.19	0.98	mg/Kg	07/03/25 10:30	07/09/25 17:23	6010D	SW3050
7440-39-3	Barium	19.8		1	0.71	4.88	mg/Kg	07/03/25 10:30	07/09/25 17:23	6010D	SW3050
7440-41-7	Beryllium	0.56		1	0.024	0.29	mg/Kg	07/03/25 10:30	07/09/25 17:23	6010D	SW3050
7440-43-9	Cadmium	0.023	U	1	0.023	0.29	mg/Kg	07/03/25 10:30	07/09/25 17:23	6010D	SW3050
7440-70-2	Calcium	14000	*	1	10.8	97.5	mg/Kg	07/03/25 10:30	07/09/25 17:23	6010D	SW3050
7440-47-3	Chromium	12.0		1	0.046	0.49	mg/Kg	07/03/25 10:30	07/09/25 17:23	6010D	SW3050
7440-48-4	Cobalt	4.88		1	0.098	1.46	mg/Kg	07/03/25 10:30	07/09/25 17:23	6010D	SW3050
7440-50-8	Copper	16.7		1	0.22	0.98	mg/Kg	07/03/25 10:30	07/09/25 17:23	6010D	SW3050
7439-89-6	Iron	17300		1	3.89	4.88	mg/Kg	07/03/25 10:30	07/09/25 17:23	6010D	SW3050
7439-92-1	Lead	10.9		1	0.13	0.59	mg/Kg	07/03/25 10:30	07/09/25 17:23	6010D	SW3050
7439-95-4	Magnesium	4120		1	11.7	97.5	mg/Kg	07/03/25 10:30	07/09/25 17:23	6010D	SW3050
7439-96-5	Manganese	70.9		1	0.14	0.98	mg/Kg	07/03/25 10:30	07/09/25 17:23	6010D	SW3050
7439-97-6	Mercury	0.022		1	0.0090	0.016	mg/Kg	07/02/25 16:25	07/03/25 11:59	7471B	
7440-02-0	Nickel	6.94		1	0.13	1.95	mg/Kg	07/03/25 10:30	07/09/25 17:23	6010D	SW3050
7440-09-7	Potassium	429		1	27.0	97.5	mg/Kg	07/03/25 10:30	07/09/25 17:23	6010D	SW3050
7782-49-2	Selenium	2.59	N	1	0.25	0.98	mg/Kg	07/03/25 10:30	07/09/25 17:23	6010D	SW3050
7440-22-4	Silver	0.12	UN	1	0.12	0.49	mg/Kg	07/03/25 10:30	07/09/25 17:23	6010D	SW3050
7440-23-5	Sodium	354	N	1	17.4	97.5	mg/Kg	07/03/25 10:30	07/09/25 17:23	6010D	SW3050
7440-28-0	Thallium	0.22	U	1	0.22	1.95	mg/Kg	07/03/25 10:30	07/09/25 17:23	6010D	SW3050
7440-62-2	Vanadium	35.8		1	0.24	1.95	mg/Kg	07/03/25 10:30	07/09/25 17:23	6010D	SW3050
7440-66-6	Zinc	20.0		1	0.11	1.95	mg/Kg	07/03/25 10:30	07/09/25 17:23	6010D	SW3050

Color Before:	Brown	Clarity Before:		Texture:	Medium
Color After:	Yellow	Clarity After:		Artifacts:	
Comments:	METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-107	SDG No.:	Q2484
Lab Sample ID:	Q2484-04	Matrix:	SOIL
Level (low/med):	low	% Solid:	83.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	9270		1	0.88	5.26	mg/Kg	07/03/25 10:30	07/09/25 17:28	6010D	SW3050
7440-36-0	Antimony	1.66	JN	1	0.23	2.63	mg/Kg	07/03/25 10:30	07/09/25 17:28	6010D	SW3050
7440-38-2	Arsenic	11.8		1	0.20	1.05	mg/Kg	07/03/25 10:30	07/09/25 17:28	6010D	SW3050
7440-39-3	Barium	28.0		1	0.77	5.26	mg/Kg	07/03/25 10:30	07/09/25 17:28	6010D	SW3050
7440-41-7	Beryllium	0.91		1	0.026	0.32	mg/Kg	07/03/25 10:30	07/09/25 17:28	6010D	SW3050
7440-43-9	Cadmium	0.025	U	1	0.025	0.32	mg/Kg	07/03/25 10:30	07/09/25 17:28	6010D	SW3050
7440-70-2	Calcium	478	*	1	11.7	105	mg/Kg	07/03/25 10:30	07/09/25 17:28	6010D	SW3050
7440-47-3	Chromium	26.4		1	0.049	0.53	mg/Kg	07/03/25 10:30	07/09/25 17:28	6010D	SW3050
7440-48-4	Cobalt	4.10		1	0.11	1.58	mg/Kg	07/03/25 10:30	07/09/25 17:28	6010D	SW3050
7440-50-8	Copper	2.95		1	0.23	1.05	mg/Kg	07/03/25 10:30	07/09/25 17:28	6010D	SW3050
7439-89-6	Iron	27700		1	4.20	5.26	mg/Kg	07/03/25 10:30	07/09/25 17:28	6010D	SW3050
7439-92-1	Lead	11.9		1	0.14	0.63	mg/Kg	07/03/25 10:30	07/09/25 17:28	6010D	SW3050
7439-95-4	Magnesium	557		1	12.6	105	mg/Kg	07/03/25 10:30	07/09/25 17:28	6010D	SW3050
7439-96-5	Manganese	71.8		1	0.15	1.05	mg/Kg	07/03/25 10:30	07/09/25 17:28	6010D	SW3050
7439-97-6	Mercury	0.053		1	0.0080	0.015	mg/Kg	07/02/25 16:25	07/03/25 12:01	7471B	
7440-02-0	Nickel	5.87		1	0.14	2.10	mg/Kg	07/03/25 10:30	07/09/25 17:28	6010D	SW3050
7440-09-7	Potassium	303		1	29.1	105	mg/Kg	07/03/25 10:30	07/09/25 17:28	6010D	SW3050
7782-49-2	Selenium	7.40	N	1	0.27	1.05	mg/Kg	07/03/25 10:30	07/09/25 17:28	6010D	SW3050
7440-22-4	Silver	0.13	UN	1	0.13	0.53	mg/Kg	07/03/25 10:30	07/09/25 17:28	6010D	SW3050
7440-23-5	Sodium	142	N	1	18.7	105	mg/Kg	07/03/25 10:30	07/09/25 17:28	6010D	SW3050
7440-28-0	Thallium	0.24	U	1	0.24	2.10	mg/Kg	07/03/25 10:30	07/09/25 17:28	6010D	SW3050
7440-62-2	Vanadium	43.2		1	0.26	2.10	mg/Kg	07/03/25 10:30	07/09/25 17:28	6010D	SW3050
7440-66-6	Zinc	17.6		1	0.12	2.10	mg/Kg	07/03/25 10:30	07/09/25 17:28	6010D	SW3050

Color Before:	Brown	Clarity Before:		Texture:	Medium
Color After:	Yellow	Clarity After:		Artifacts:	
Comments:	METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
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OR = Over Range
N =Spiked sample recovery not within control limits

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-106	SDG No.:	Q2484
Lab Sample ID:	Q2484-05	Matrix:	SOIL
Level (low/med):	low	% Solid:	87.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	8890		1	0.78	4.62	mg/Kg	07/03/25 10:30	07/09/25 17:32	6010D	SW3050
7440-36-0	Antimony	1.73	JN	1	0.20	2.31	mg/Kg	07/03/25 10:30	07/09/25 17:32	6010D	SW3050
7440-38-2	Arsenic	9.95		1	0.18	0.93	mg/Kg	07/03/25 10:30	07/09/25 17:32	6010D	SW3050
7440-39-3	Barium	17.9		1	0.68	4.62	mg/Kg	07/03/25 10:30	07/09/25 17:32	6010D	SW3050
7440-41-7	Beryllium	0.99		1	0.023	0.28	mg/Kg	07/03/25 10:30	07/09/25 17:32	6010D	SW3050
7440-43-9	Cadmium	0.022	U	1	0.022	0.28	mg/Kg	07/03/25 10:30	07/09/25 17:32	6010D	SW3050
7440-70-2	Calcium	365	*	1	10.3	92.5	mg/Kg	07/03/25 10:30	07/09/25 17:32	6010D	SW3050
7440-47-3	Chromium	36.0		1	0.043	0.46	mg/Kg	07/03/25 10:30	07/09/25 17:32	6010D	SW3050
7440-48-4	Cobalt	4.70		1	0.092	1.39	mg/Kg	07/03/25 10:30	07/09/25 17:32	6010D	SW3050
7440-50-8	Copper	2.51		1	0.20	0.93	mg/Kg	07/03/25 10:30	07/09/25 17:32	6010D	SW3050
7439-89-6	Iron	25500		1	3.69	4.62	mg/Kg	07/03/25 10:30	07/09/25 17:32	6010D	SW3050
7439-92-1	Lead	9.18		1	0.12	0.56	mg/Kg	07/03/25 10:30	07/09/25 17:32	6010D	SW3050
7439-95-4	Magnesium	507		1	11.1	92.5	mg/Kg	07/03/25 10:30	07/09/25 17:32	6010D	SW3050
7439-96-5	Manganese	56.0		1	0.13	0.93	mg/Kg	07/03/25 10:30	07/09/25 17:32	6010D	SW3050
7439-97-6	Mercury	0.031		1	0.0090	0.016	mg/Kg	07/02/25 16:25	07/03/25 12:04	7471B	
7440-02-0	Nickel	6.34		1	0.12	1.85	mg/Kg	07/03/25 10:30	07/09/25 17:32	6010D	SW3050
7440-09-7	Potassium	392		1	25.6	92.5	mg/Kg	07/03/25 10:30	07/09/25 17:32	6010D	SW3050
7782-49-2	Selenium	6.21	N	1	0.24	0.93	mg/Kg	07/03/25 10:30	07/09/25 17:32	6010D	SW3050
7440-22-4	Silver	0.11	UN	1	0.11	0.46	mg/Kg	07/03/25 10:30	07/09/25 17:32	6010D	SW3050
7440-23-5	Sodium	299	N	1	16.5	92.5	mg/Kg	07/03/25 10:30	07/09/25 17:32	6010D	SW3050
7440-28-0	Thallium	0.21	U	1	0.21	1.85	mg/Kg	07/03/25 10:30	07/09/25 17:32	6010D	SW3050
7440-62-2	Vanadium	36.0		1	0.23	1.85	mg/Kg	07/03/25 10:30	07/09/25 17:32	6010D	SW3050
7440-66-6	Zinc	18.3		1	0.10	1.85	mg/Kg	07/03/25 10:30	07/09/25 17:32	6010D	SW3050

Color Before:	Brown	Clarity Before:		Texture:	Medium
Color After:	Yellow	Clarity After:		Artifacts:	
Comments:	METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
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J = Estimated Value
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Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-104	SDG No.:	Q2484
Lab Sample ID:	Q2484-06	Matrix:	SOIL
Level (low/med):	low	% Solid:	87.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	9230		1	0.80	4.77	mg/Kg	07/03/25 10:30	07/15/25 14:44	6010D	SW3050
7440-36-0	Antimony	1.16	JN	1	0.21	2.39	mg/Kg	07/03/25 10:30	07/15/25 14:44	6010D	SW3050
7440-38-2	Arsenic	7.48		1	0.18	0.96	mg/Kg	07/03/25 10:30	07/15/25 14:44	6010D	SW3050
7440-39-3	Barium	24.3		1	0.70	4.77	mg/Kg	07/03/25 10:30	07/15/25 14:44	6010D	SW3050
7440-41-7	Beryllium	0.73		1	0.024	0.29	mg/Kg	07/03/25 10:30	07/15/25 14:44	6010D	SW3050
7440-43-9	Cadmium	0.023	U	1	0.023	0.29	mg/Kg	07/03/25 10:30	07/15/25 14:44	6010D	SW3050
7440-70-2	Calcium	353	*	1	10.6	95.5	mg/Kg	07/03/25 10:30	07/15/25 14:44	6010D	SW3050
7440-47-3	Chromium	15.8		1	0.045	0.48	mg/Kg	07/03/25 10:30	07/15/25 14:44	6010D	SW3050
7440-48-4	Cobalt	0.095	U	1	0.095	1.43	mg/Kg	07/03/25 10:30	07/15/25 14:44	6010D	SW3050
7440-50-8	Copper	4.84		1	0.21	0.96	mg/Kg	07/03/25 10:30	07/15/25 14:44	6010D	SW3050
7439-89-6	Iron	19400		1	3.81	4.77	mg/Kg	07/03/25 10:30	07/15/25 14:44	6010D	SW3050
7439-92-1	Lead	13.1		1	0.12	0.57	mg/Kg	07/03/25 10:30	07/15/25 14:44	6010D	SW3050
7439-95-4	Magnesium	717		1	11.5	95.5	mg/Kg	07/03/25 10:30	07/15/25 14:44	6010D	SW3050
7439-96-5	Manganese	73.8		1	0.13	0.96	mg/Kg	07/03/25 10:30	07/15/25 14:44	6010D	SW3050
7439-97-6	Mercury	0.039		1	0.0080	0.015	mg/Kg	07/02/25 16:25	07/03/25 12:06	7471B	
7440-02-0	Nickel	7.27		1	0.12	1.91	mg/Kg	07/03/25 10:30	07/15/25 14:44	6010D	SW3050
7440-09-7	Potassium	420		1	26.4	95.5	mg/Kg	07/03/25 10:30	07/15/25 14:44	6010D	SW3050
7782-49-2	Selenium	4.47	N	1	0.25	0.96	mg/Kg	07/03/25 10:30	07/15/25 14:44	6010D	SW3050
7440-22-4	Silver	0.12	UN	1	0.12	0.48	mg/Kg	07/03/25 10:30	07/15/25 14:44	6010D	SW3050
7440-23-5	Sodium	253	N	1	17.0	95.5	mg/Kg	07/03/25 10:30	07/15/25 14:44	6010D	SW3050
7440-28-0	Thallium	0.22	U	1	0.22	1.91	mg/Kg	07/03/25 10:30	07/15/25 14:44	6010D	SW3050
7440-62-2	Vanadium	30.8		1	0.24	1.91	mg/Kg	07/03/25 10:30	07/15/25 14:44	6010D	SW3050
7440-66-6	Zinc	16.3		1	0.11	1.91	mg/Kg	07/03/25 10:30	07/15/25 14:44	6010D	SW3050

Color Before:	Brown	Clarity Before:		Texture:	Medium
Color After:	Yellow	Clarity After:		Artifacts:	
Comments:	METALS-TAL				

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LOQ = Limit of Quantitation
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METAL CALIBRATION DATA

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Fax : 908 789 8922

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV16	Mercury	4.26	4.0	106	90 - 110	CV	07/03/2025	11:13	LB136369

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV51	Mercury	5.14	5.0	103	90 - 110	CV	07/03/2025	11:20	LB136369
CCV52	Mercury	5.23	5.0	104	90 - 110	CV	07/03/2025	11:48	LB136369
CCV53	Mercury	5.02	5.0	100	90 - 110	CV	07/03/2025	12:15	LB136369
CCV54	Mercury	5.04	5.0	101	90 - 110	CV	07/03/2025	12:30	LB136369

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Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Aluminum	7480	8000	94	90 - 110	P	07/07/2025	13:22	LB136390
	Antimony	4050	4000	101	90 - 110	P	07/07/2025	13:22	LB136390
	Arsenic	3880	4000	97	90 - 110	P	07/07/2025	13:22	LB136390
	Barium	7340	8000	92	90 - 110	P	07/07/2025	13:22	LB136390
	Beryllium	189	200	94	90 - 110	P	07/07/2025	13:22	LB136390
	Cadmium	1950	2000	98	90 - 110	P	07/07/2025	13:22	LB136390
	Calcium	18600	20000	93	90 - 110	P	07/07/2025	13:22	LB136390
	Chromium	804	800	100	90 - 110	P	07/07/2025	13:22	LB136390
	Cobalt	1960	2000	98	90 - 110	P	07/07/2025	13:22	LB136390
	Copper	993	1000	99	90 - 110	P	07/07/2025	13:22	LB136390
	Iron	4060	4000	101	90 - 110	P	07/07/2025	13:22	LB136390
	Lead	3810	4000	95	90 - 110	P	07/07/2025	13:22	LB136390
	Magnesium	18700	20000	94	90 - 110	P	07/07/2025	13:22	LB136390
	Manganese	1870	2000	93	90 - 110	P	07/07/2025	13:22	LB136390
	Nickel	1960	2000	98	90 - 110	P	07/07/2025	13:22	LB136390
	Potassium	20200	20000	101	90 - 110	P	07/07/2025	13:22	LB136390
	Selenium	3890	4000	97	90 - 110	P	07/07/2025	13:22	LB136390
	Silver	1020	1000	102	90 - 110	P	07/07/2025	13:22	LB136390
	Sodium	20400	20000	102	90 - 110	P	07/07/2025	13:22	LB136390
	Thallium	3670	4000	92	90 - 110	P	07/07/2025	13:22	LB136390
	Vanadium	1870	2000	94	90 - 110	P	07/07/2025	13:22	LB136390
	Zinc	1990	2000	100	90 - 110	P	07/07/2025	13:22	LB136390

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Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICV01	Aluminum	102	100	102	80 - 120	P	07/07/2025	13:41	LB136390
	Antimony	50.5	50.0	101	80 - 120	P	07/07/2025	13:41	LB136390
	Arsenic	22.5	20.0	112	80 - 120	P	07/07/2025	13:41	LB136390
	Barium	92.5	100	92	80 - 120	P	07/07/2025	13:41	LB136390
	Beryllium	5.89	6.0	98	80 - 120	P	07/07/2025	13:41	LB136390
	Cadmium	6.03	6.0	100	80 - 120	P	07/07/2025	13:41	LB136390
	Calcium	1960	2000	98	80 - 120	P	07/07/2025	13:41	LB136390
	Chromium	11.0	10.0	110	80 - 120	P	07/07/2025	13:41	LB136390
	Cobalt	29.7	30.0	99	80 - 120	P	07/07/2025	13:41	LB136390
	Copper	21.6	20.0	108	80 - 120	P	07/07/2025	13:41	LB136390
	Iron	96.2	100	96	80 - 120	P	07/07/2025	13:41	LB136390
	Lead	12.3	12.0	103	80 - 120	P	07/07/2025	13:41	LB136390
	Magnesium	2070	2000	104	80 - 120	P	07/07/2025	13:41	LB136390
	Manganese	20.4	20.0	102	80 - 120	P	07/07/2025	13:41	LB136390
	Nickel	41.6	40.0	104	80 - 120	P	07/07/2025	13:41	LB136390
	Potassium	1810	2000	90	80 - 120	P	07/07/2025	13:41	LB136390
	Selenium	20.1	20.0	101	80 - 120	P	07/07/2025	13:41	LB136390
	Silver	9.83	10.0	98	80 - 120	P	07/07/2025	13:41	LB136390
	Sodium	2000	2000	100	80 - 120	P	07/07/2025	13:41	LB136390
	Thallium	38.6	40.0	96	80 - 120	P	07/07/2025	13:41	LB136390
	Vanadium	38.5	40.0	96	80 - 120	P	07/07/2025	13:41	LB136390
	Zinc	42.7	40.0	107	80 - 120	P	07/07/2025	13:41	LB136390

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Aluminum	9890	10000	99	90 - 110	P	07/07/2025	14:38	LB136390
	Antimony	5080	5000	102	90 - 110	P	07/07/2025	14:38	LB136390
	Arsenic	5120	5000	102	90 - 110	P	07/07/2025	14:38	LB136390
	Barium	9860	10000	99	90 - 110	P	07/07/2025	14:38	LB136390
	Beryllium	247	250	99	90 - 110	P	07/07/2025	14:38	LB136390
	Cadmium	2550	2500	102	90 - 110	P	07/07/2025	14:38	LB136390
	Calcium	24700	25000	99	90 - 110	P	07/07/2025	14:38	LB136390
	Chromium	1010	1000	101	90 - 110	P	07/07/2025	14:38	LB136390
	Cobalt	2530	2500	101	90 - 110	P	07/07/2025	14:38	LB136390
	Copper	1280	1250	102	90 - 110	P	07/07/2025	14:38	LB136390
	Iron	5030	5000	101	90 - 110	P	07/07/2025	14:38	LB136390
	Lead	5050	5000	101	90 - 110	P	07/07/2025	14:38	LB136390
	Magnesium	24400	25000	97	90 - 110	P	07/07/2025	14:38	LB136390
	Manganese	2460	2500	98	90 - 110	P	07/07/2025	14:38	LB136390
	Nickel	2540	2500	102	90 - 110	P	07/07/2025	14:38	LB136390
	Potassium	25500	25000	102	90 - 110	P	07/07/2025	14:38	LB136390
	Selenium	5090	5000	102	90 - 110	P	07/07/2025	14:38	LB136390
	Silver	1250	1250	100	90 - 110	P	07/07/2025	14:38	LB136390
	Sodium	25700	25000	103	90 - 110	P	07/07/2025	14:38	LB136390
	Thallium	5090	5000	102	90 - 110	P	07/07/2025	14:38	LB136390
	Vanadium	2450	2500	98	90 - 110	P	07/07/2025	14:38	LB136390
	Zinc	2530	2500	101	90 - 110	P	07/07/2025	14:38	LB136390
CCV02	Aluminum	9790	10000	98	90 - 110	P	07/07/2025	15:30	LB136390
	Antimony	5040	5000	101	90 - 110	P	07/07/2025	15:30	LB136390
	Arsenic	5030	5000	101	90 - 110	P	07/07/2025	15:30	LB136390
	Barium	9870	10000	99	90 - 110	P	07/07/2025	15:30	LB136390
	Beryllium	239	250	95	90 - 110	P	07/07/2025	15:30	LB136390
	Cadmium	2480	2500	99	90 - 110	P	07/07/2025	15:30	LB136390
	Calcium	24400	25000	98	90 - 110	P	07/07/2025	15:30	LB136390
	Chromium	994	1000	99	90 - 110	P	07/07/2025	15:30	LB136390
	Cobalt	2480	2500	99	90 - 110	P	07/07/2025	15:30	LB136390
	Copper	1260	1250	101	90 - 110	P	07/07/2025	15:30	LB136390
	Iron	5020	5000	100	90 - 110	P	07/07/2025	15:30	LB136390
	Lead	4930	5000	99	90 - 110	P	07/07/2025	15:30	LB136390

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV02	Magnesium	24000	25000	96	90 - 110	P	07/07/2025	15:30	LB136390
	Manganese	2420	2500	97	90 - 110	P	07/07/2025	15:30	LB136390
	Nickel	2490	2500	100	90 - 110	P	07/07/2025	15:30	LB136390
	Potassium	24200	25000	97	90 - 110	P	07/07/2025	15:30	LB136390
	Selenium	5010	5000	100	90 - 110	P	07/07/2025	15:30	LB136390
	Silver	1240	1250	99	90 - 110	P	07/07/2025	15:30	LB136390
	Sodium	22700	25000	91	90 - 110	P	07/07/2025	15:30	LB136390
	Thallium	4840	5000	97	90 - 110	P	07/07/2025	15:30	LB136390
	Vanadium	2420	2500	97	90 - 110	P	07/07/2025	15:30	LB136390
	Zinc	2510	2500	101	90 - 110	P	07/07/2025	15:30	LB136390
CCV03	Aluminum	9880	10000	99	90 - 110	P	07/07/2025	16:33	LB136390
	Antimony	5100	5000	102	90 - 110	P	07/07/2025	16:33	LB136390
	Arsenic	5100	5000	102	90 - 110	P	07/07/2025	16:33	LB136390
	Barium	10000	10000	100	90 - 110	P	07/07/2025	16:33	LB136390
	Beryllium	245	250	98	90 - 110	P	07/07/2025	16:33	LB136390
	Cadmium	2520	2500	101	90 - 110	P	07/07/2025	16:33	LB136390
	Calcium	24600	25000	98	90 - 110	P	07/07/2025	16:33	LB136390
	Chromium	1020	1000	102	90 - 110	P	07/07/2025	16:33	LB136390
	Cobalt	2520	2500	101	90 - 110	P	07/07/2025	16:33	LB136390
	Copper	1280	1250	102	90 - 110	P	07/07/2025	16:33	LB136390
	Iron	5150	5000	103	90 - 110	P	07/07/2025	16:33	LB136390
	Lead	5010	5000	100	90 - 110	P	07/07/2025	16:33	LB136390
	Magnesium	24100	25000	96	90 - 110	P	07/07/2025	16:33	LB136390
	Manganese	2460	2500	98	90 - 110	P	07/07/2025	16:33	LB136390
	Nickel	2530	2500	101	90 - 110	P	07/07/2025	16:33	LB136390
	Potassium	26000	25000	104	90 - 110	P	07/07/2025	16:33	LB136390
	Selenium	5070	5000	101	90 - 110	P	07/07/2025	16:33	LB136390
	Silver	1270	1250	101	90 - 110	P	07/07/2025	16:33	LB136390
	Sodium	24800	25000	99	90 - 110	P	07/07/2025	16:33	LB136390
	Thallium	4700	5000	94	90 - 110	P	07/07/2025	16:33	LB136390
	Vanadium	2440	2500	98	90 - 110	P	07/07/2025	16:33	LB136390
	Zinc	2580	2500	103	90 - 110	P	07/07/2025	16:33	LB136390
CCV04	Aluminum	9910	10000	99	90 - 110	P	07/07/2025	17:31	LB136390
	Antimony	5060	5000	101	90 - 110	P	07/07/2025	17:31	LB136390

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV04	Arsenic	5040	5000	101	90 - 110	P	07/07/2025	17:31	LB136390
	Barium	10200	10000	102	90 - 110	P	07/07/2025	17:31	LB136390
	Beryllium	240	250	96	90 - 110	P	07/07/2025	17:31	LB136390
	Cadmium	2480	2500	99	90 - 110	P	07/07/2025	17:31	LB136390
	Calcium	24600	25000	99	90 - 110	P	07/07/2025	17:31	LB136390
	Chromium	1010	1000	101	90 - 110	P	07/07/2025	17:31	LB136390
	Cobalt	2490	2500	100	90 - 110	P	07/07/2025	17:31	LB136390
	Copper	1260	1250	101	90 - 110	P	07/07/2025	17:31	LB136390
	Iron	5230	5000	104	90 - 110	P	07/07/2025	17:31	LB136390
	Lead	4930	5000	98	90 - 110	P	07/07/2025	17:31	LB136390
	Magnesium	23900	25000	96	90 - 110	P	07/07/2025	17:31	LB136390
	Manganese	2450	2500	98	90 - 110	P	07/07/2025	17:31	LB136390
	Nickel	2500	2500	100	90 - 110	P	07/07/2025	17:31	LB136390
	Potassium	27000	25000	108	90 - 110	P	07/07/2025	17:31	LB136390
	Selenium	5020	5000	100	90 - 110	P	07/07/2025	17:31	LB136390
	Silver	1260	1250	101	90 - 110	P	07/07/2025	17:31	LB136390
	Sodium	26700	25000	107	90 - 110	P	07/07/2025	17:31	LB136390
	Thallium	4540	5000	91	90 - 110	P	07/07/2025	17:31	LB136390
	Vanadium	2450	2500	98	90 - 110	P	07/07/2025	17:31	LB136390
	Zinc	2570	2500	103	90 - 110	P	07/07/2025	17:31	LB136390
CCV05	Aluminum	9950	10000	100	90 - 110	P	07/08/2025	01:43	LB136390
	Antimony	5110	5000	102	90 - 110	P	07/08/2025	01:43	LB136390
	Arsenic	5130	5000	103	90 - 110	P	07/08/2025	01:43	LB136390
	Barium	10300	10000	103	90 - 110	P	07/08/2025	01:43	LB136390
	Beryllium	252	250	101	90 - 110	P	07/08/2025	01:43	LB136390
	Cadmium	2550	2500	102	90 - 110	P	07/08/2025	01:43	LB136390
	Calcium	24700	25000	99	90 - 110	P	07/08/2025	01:43	LB136390
	Chromium	1020	1000	102	90 - 110	P	07/08/2025	01:43	LB136390
	Cobalt	2540	2500	101	90 - 110	P	07/08/2025	01:43	LB136390
	Copper	1290	1250	103	90 - 110	P	07/08/2025	01:43	LB136390
	Iron	5020	5000	100	90 - 110	P	07/08/2025	01:43	LB136390
	Lead	5060	5000	101	90 - 110	P	07/08/2025	01:43	LB136390
	Magnesium	24200	25000	97	90 - 110	P	07/08/2025	01:43	LB136390
	Manganese	2460	2500	98	90 - 110	P	07/08/2025	01:43	LB136390

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV05	Nickel	2550	2500	102	90 - 110	P	07/08/2025	01:43	LB136390
	Potassium	26200	25000	105	90 - 110	P	07/08/2025	01:43	LB136390
	Selenium	5100	5000	102	90 - 110	P	07/08/2025	01:43	LB136390
	Silver	1260	1250	101	90 - 110	P	07/08/2025	01:43	LB136390
	Sodium	26100	25000	104	90 - 110	P	07/08/2025	01:43	LB136390
	Thallium	4270	5000	85	90 - 110	P	07/08/2025	01:43	LB136390
	Vanadium	2460	2500	98	90 - 110	P	07/08/2025	01:43	LB136390
	Zinc	2540	2500	102	90 - 110	P	07/08/2025	01:43	LB136390
CCV06	Aluminum	9750	10000	98	90 - 110	P	07/08/2025	02:49	LB136390
	Antimony	5020	5000	100	90 - 110	P	07/08/2025	02:49	LB136390
	Arsenic	5030	5000	101	90 - 110	P	07/08/2025	02:49	LB136390
	Barium	10300	10000	103	90 - 110	P	07/08/2025	02:49	LB136390
	Beryllium	249	250	100	90 - 110	P	07/08/2025	02:49	LB136390
	Cadmium	2490	2500	99	90 - 110	P	07/08/2025	02:49	LB136390
	Calcium	24500	25000	98	90 - 110	P	07/08/2025	02:49	LB136390
	Chromium	1020	1000	102	90 - 110	P	07/08/2025	02:49	LB136390
	Cobalt	2480	2500	99	90 - 110	P	07/08/2025	02:49	LB136390
	Copper	1260	1250	101	90 - 110	P	07/08/2025	02:49	LB136390
	Iron	5260	5000	105	90 - 110	P	07/08/2025	02:49	LB136390
	Lead	4940	5000	99	90 - 110	P	07/08/2025	02:49	LB136390
	Magnesium	24000	25000	96	90 - 110	P	07/08/2025	02:49	LB136390
	Manganese	2430	2500	97	90 - 110	P	07/08/2025	02:49	LB136390
	Nickel	2490	2500	100	90 - 110	P	07/08/2025	02:49	LB136390
	Potassium	27900	25000	111	90 - 110	P	07/08/2025	02:49	LB136390
	Selenium	5030	5000	100	90 - 110	P	07/08/2025	02:49	LB136390
	Silver	1270	1250	102	90 - 110	P	07/08/2025	02:49	LB136390
	Sodium	27100	25000	108	90 - 110	P	07/08/2025	02:49	LB136390
	Thallium	4390	5000	88	90 - 110	P	07/08/2025	02:49	LB136390
	Vanadium	2450	2500	98	90 - 110	P	07/08/2025	02:49	LB136390
	Zinc	2450	2500	98	90 - 110	P	07/08/2025	02:49	LB136390
CCV07	Aluminum	9870	10000	99	90 - 110	P	07/08/2025	03:40	LB136390
	Antimony	5060	5000	101	90 - 110	P	07/08/2025	03:40	LB136390
	Arsenic	5040	5000	101	90 - 110	P	07/08/2025	03:40	LB136390
	Barium	10300	10000	103	90 - 110	P	07/08/2025	03:40	LB136390

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV07	Beryllium	251	250	100	90 - 110	P	07/08/2025	03:40	LB136390
	Cadmium	2500	2500	100	90 - 110	P	07/08/2025	03:40	LB136390
	Calcium	24800	25000	99	90 - 110	P	07/08/2025	03:40	LB136390
	Chromium	1020	1000	102	90 - 110	P	07/08/2025	03:40	LB136390
	Cobalt	2500	2500	100	90 - 110	P	07/08/2025	03:40	LB136390
	Copper	1270	1250	102	90 - 110	P	07/08/2025	03:40	LB136390
	Iron	5150	5000	103	90 - 110	P	07/08/2025	03:40	LB136390
	Lead	4980	5000	100	90 - 110	P	07/08/2025	03:40	LB136390
	Magnesium	24300	25000	97	90 - 110	P	07/08/2025	03:40	LB136390
	Manganese	2470	2500	99	90 - 110	P	07/08/2025	03:40	LB136390
	Nickel	2510	2500	100	90 - 110	P	07/08/2025	03:40	LB136390
	Potassium	27100	25000	108	90 - 110	P	07/08/2025	03:40	LB136390
	Selenium	5020	5000	100	90 - 110	P	07/08/2025	03:40	LB136390
	Silver	1270	1250	101	90 - 110	P	07/08/2025	03:40	LB136390
	Sodium	25100	25000	101	90 - 110	P	07/08/2025	03:40	LB136390
	Thallium	4520	5000	90	90 - 110	P	07/08/2025	03:40	LB136390
	Vanadium	2490	2500	100	90 - 110	P	07/08/2025	03:40	LB136390
	Zinc	2500	2500	100	90 - 110	P	07/08/2025	03:40	LB136390

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Aluminum	7590	8000	95	90 - 110	P	07/09/2025	10:05	LB136407
	Antimony	3910	4000	98	90 - 110	P	07/09/2025	10:05	LB136407
	Arsenic	3660	4000	92	90 - 110	P	07/09/2025	10:05	LB136407
	Barium	7770	8000	97	90 - 110	P	07/09/2025	10:05	LB136407
	Beryllium	194	200	97	90 - 110	P	07/09/2025	10:05	LB136407
	Cadmium	1860	2000	93	90 - 110	P	07/09/2025	10:05	LB136407
	Calcium	19100	20000	95	90 - 110	P	07/09/2025	10:05	LB136407
	Chromium	784	800	98	90 - 110	P	07/09/2025	10:05	LB136407
	Cobalt	1910	2000	96	90 - 110	P	07/09/2025	10:05	LB136407
	Copper	1000	1000	100	90 - 110	P	07/09/2025	10:05	LB136407
	Iron	3730	4000	93	90 - 110	P	07/09/2025	10:05	LB136407
	Lead	3700	4000	92	90 - 110	P	07/09/2025	10:05	LB136407
	Magnesium	19100	20000	95	90 - 110	P	07/09/2025	10:05	LB136407
	Manganese	1920	2000	96	90 - 110	P	07/09/2025	10:05	LB136407
	Nickel	1890	2000	94	90 - 110	P	07/09/2025	10:05	LB136407
	Potassium	18500	20000	93	90 - 110	P	07/09/2025	10:05	LB136407
	Selenium	3760	4000	94	90 - 110	P	07/09/2025	10:05	LB136407
	Silver	1000	1000	100	90 - 110	P	07/09/2025	10:05	LB136407
	Sodium	19300	20000	96	90 - 110	P	07/09/2025	10:05	LB136407
	Thallium	3680	4000	92	90 - 110	P	07/09/2025	10:05	LB136407
	Vanadium	1940	2000	97	90 - 110	P	07/09/2025	10:05	LB136407
	Zinc	1950	2000	97	90 - 110	P	07/09/2025	10:05	LB136407

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICV01	Aluminum	96.1	100	96	80 - 120	P	07/09/2025	10:17	LB136407
	Antimony	49.5	50.0	99	80 - 120	P	07/09/2025	10:17	LB136407
	Arsenic	20.8	20.0	104	80 - 120	P	07/09/2025	10:17	LB136407
	Barium	101	100	101	80 - 120	P	07/09/2025	10:17	LB136407
	Beryllium	6.07	6.0	101	80 - 120	P	07/09/2025	10:17	LB136407
	Cadmium	5.40	6.0	90	80 - 120	P	07/09/2025	10:17	LB136407
	Calcium	1940	2000	97	80 - 120	P	07/09/2025	10:17	LB136407
	Chromium	10.3	10.0	103	80 - 120	P	07/09/2025	10:17	LB136407
	Cobalt	28.4	30.0	95	80 - 120	P	07/09/2025	10:17	LB136407
	Copper	22.7	20.0	114	80 - 120	P	07/09/2025	10:17	LB136407
	Iron	117	100	117	80 - 120	P	07/09/2025	10:17	LB136407
	Lead	11.2	12.0	94	80 - 120	P	07/09/2025	10:17	LB136407
	Magnesium	2100	2000	105	80 - 120	P	07/09/2025	10:17	LB136407
	Manganese	23.0	20.0	115	80 - 120	P	07/09/2025	10:17	LB136407
	Nickel	37.8	40.0	95	80 - 120	P	07/09/2025	10:17	LB136407
	Potassium	1760	2000	88	80 - 120	P	07/09/2025	10:17	LB136407
	Selenium	21.3	20.0	107	80 - 120	P	07/09/2025	10:17	LB136407
	Silver	9.46	10.0	95	80 - 120	P	07/09/2025	10:17	LB136407
	Sodium	1770	2000	88	80 - 120	P	07/09/2025	10:17	LB136407
	Thallium	37.7	40.0	94	80 - 120	P	07/09/2025	10:17	LB136407
	Vanadium	37.7	40.0	94	80 - 120	P	07/09/2025	10:17	LB136407
	Zinc	42.1	40.0	105	80 - 120	P	07/09/2025	10:17	LB136407

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Aluminum	10300	10000	102	90 - 110	P	07/09/2025	10:48	LB136407
	Antimony	5070	5000	101	90 - 110	P	07/09/2025	10:48	LB136407
	Arsenic	4990	5000	100	90 - 110	P	07/09/2025	10:48	LB136407
	Barium	10700	10000	107	90 - 110	P	07/09/2025	10:48	LB136407
	Beryllium	259	250	104	90 - 110	P	07/09/2025	10:48	LB136407
	Cadmium	2520	2500	101	90 - 110	P	07/09/2025	10:48	LB136407
	Calcium	25400	25000	102	90 - 110	P	07/09/2025	10:48	LB136407
	Chromium	1030	1000	103	90 - 110	P	07/09/2025	10:48	LB136407
	Cobalt	2480	2500	99	90 - 110	P	07/09/2025	10:48	LB136407
	Copper	1290	1250	104	90 - 110	P	07/09/2025	10:48	LB136407
	Iron	5010	5000	100	90 - 110	P	07/09/2025	10:48	LB136407
	Lead	5040	5000	101	90 - 110	P	07/09/2025	10:48	LB136407
	Magnesium	24700	25000	99	90 - 110	P	07/09/2025	10:48	LB136407
	Manganese	2620	2500	105	90 - 110	P	07/09/2025	10:48	LB136407
	Nickel	2470	2500	99	90 - 110	P	07/09/2025	10:48	LB136407
	Potassium	25800	25000	103	90 - 110	P	07/09/2025	10:48	LB136407
	Selenium	5080	5000	102	90 - 110	P	07/09/2025	10:48	LB136407
	Silver	1260	1250	101	90 - 110	P	07/09/2025	10:48	LB136407
	Sodium	26500	25000	106	90 - 110	P	07/09/2025	10:48	LB136407
	Thallium	5100	5000	102	90 - 110	P	07/09/2025	10:48	LB136407
	Vanadium	2630	2500	105	90 - 110	P	07/09/2025	10:48	LB136407
	Zinc	2630	2500	105	90 - 110	P	07/09/2025	10:48	LB136407
CCV02	Aluminum	9890	10000	99	90 - 110	P	07/09/2025	11:47	LB136407
	Antimony	5010	5000	100	90 - 110	P	07/09/2025	11:47	LB136407
	Arsenic	4800	5000	96	90 - 110	P	07/09/2025	11:47	LB136407
	Barium	10700	10000	107	90 - 110	P	07/09/2025	11:47	LB136407
	Beryllium	254	250	102	90 - 110	P	07/09/2025	11:47	LB136407
	Cadmium	2430	2500	97	90 - 110	P	07/09/2025	11:47	LB136407
	Calcium	25200	25000	101	90 - 110	P	07/09/2025	11:47	LB136407
	Chromium	997	1000	100	90 - 110	P	07/09/2025	11:47	LB136407
	Cobalt	2400	2500	96	90 - 110	P	07/09/2025	11:47	LB136407
	Copper	1260	1250	101	90 - 110	P	07/09/2025	11:47	LB136407
	Iron	4860	5000	97	90 - 110	P	07/09/2025	11:47	LB136407
	Lead	4860	5000	97	90 - 110	P	07/09/2025	11:47	LB136407

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV02	Magnesium	24200	25000	97	90 - 110	P	07/09/2025	11:47	LB136407
	Manganese	2580	2500	103	90 - 110	P	07/09/2025	11:47	LB136407
	Nickel	2400	2500	96	90 - 110	P	07/09/2025	11:47	LB136407
	Potassium	24100	25000	96	90 - 110	P	07/09/2025	11:47	LB136407
	Selenium	4960	5000	99	90 - 110	P	07/09/2025	11:47	LB136407
	Silver	1240	1250	99	90 - 110	P	07/09/2025	11:47	LB136407
	Sodium	24500	25000	98	90 - 110	P	07/09/2025	11:47	LB136407
	Thallium	4990	5000	100	90 - 110	P	07/09/2025	11:47	LB136407
	Vanadium	2600	2500	104	90 - 110	P	07/09/2025	11:47	LB136407
	Zinc	2590	2500	104	90 - 110	P	07/09/2025	11:47	LB136407
CCV03	Aluminum	10000	10000	100	90 - 110	P	07/09/2025	12:54	LB136407
	Antimony	5020	5000	100	90 - 110	P	07/09/2025	12:54	LB136407
	Arsenic	4830	5000	96	90 - 110	P	07/09/2025	12:54	LB136407
	Barium	10800	10000	108	90 - 110	P	07/09/2025	12:54	LB136407
	Beryllium	257	250	103	90 - 110	P	07/09/2025	12:54	LB136407
	Cadmium	2440	2500	98	90 - 110	P	07/09/2025	12:54	LB136407
	Calcium	25500	25000	102	90 - 110	P	07/09/2025	12:54	LB136407
	Chromium	1000	1000	100	90 - 110	P	07/09/2025	12:54	LB136407
	Cobalt	2410	2500	97	90 - 110	P	07/09/2025	12:54	LB136407
	Copper	1270	1250	102	90 - 110	P	07/09/2025	12:54	LB136407
	Iron	4930	5000	99	90 - 110	P	07/09/2025	12:54	LB136407
	Lead	4890	5000	98	90 - 110	P	07/09/2025	12:54	LB136407
	Magnesium	24500	25000	98	90 - 110	P	07/09/2025	12:54	LB136407
	Manganese	2590	2500	103	90 - 110	P	07/09/2025	12:54	LB136407
	Nickel	2410	2500	96	90 - 110	P	07/09/2025	12:54	LB136407
	Potassium	24700	25000	99	90 - 110	P	07/09/2025	12:54	LB136407
	Selenium	5010	5000	100	90 - 110	P	07/09/2025	12:54	LB136407
	Silver	1240	1250	99	90 - 110	P	07/09/2025	12:54	LB136407
	Sodium	25000	25000	100	90 - 110	P	07/09/2025	12:54	LB136407
	Thallium	5030	5000	101	90 - 110	P	07/09/2025	12:54	LB136407
	Vanadium	2590	2500	104	90 - 110	P	07/09/2025	12:54	LB136407
	Zinc	2600	2500	104	90 - 110	P	07/09/2025	12:54	LB136407
CCV04	Aluminum	10100	10000	101	90 - 110	P	07/09/2025	14:05	LB136407
	Antimony	5010	5000	100	90 - 110	P	07/09/2025	14:05	LB136407

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Fax : 908 789 8922

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV04	Arsenic	4860	5000	97	90 - 110	P	07/09/2025	14:05	LB136407
	Barium	10700	10000	107	90 - 110	P	07/09/2025	14:05	LB136407
	Beryllium	259	250	104	90 - 110	P	07/09/2025	14:05	LB136407
	Cadmium	2460	2500	98	90 - 110	P	07/09/2025	14:05	LB136407
	Calcium	25700	25000	103	90 - 110	P	07/09/2025	14:05	LB136407
	Chromium	1000	1000	100	90 - 110	P	07/09/2025	14:05	LB136407
	Cobalt	2410	2500	96	90 - 110	P	07/09/2025	14:05	LB136407
	Copper	1280	1250	102	90 - 110	P	07/09/2025	14:05	LB136407
	Iron	5000	5000	100	90 - 110	P	07/09/2025	14:05	LB136407
	Lead	4930	5000	99	90 - 110	P	07/09/2025	14:05	LB136407
	Magnesium	24500	25000	98	90 - 110	P	07/09/2025	14:05	LB136407
	Manganese	2590	2500	104	90 - 110	P	07/09/2025	14:05	LB136407
	Nickel	2420	2500	97	90 - 110	P	07/09/2025	14:05	LB136407
	Potassium	25300	25000	101	90 - 110	P	07/09/2025	14:05	LB136407
	Selenium	5050	5000	101	90 - 110	P	07/09/2025	14:05	LB136407
	Silver	1260	1250	101	90 - 110	P	07/09/2025	14:05	LB136407
	Sodium	25800	25000	103	90 - 110	P	07/09/2025	14:05	LB136407
	Thallium	5080	5000	102	90 - 110	P	07/09/2025	14:05	LB136407
	Vanadium	2580	2500	103	90 - 110	P	07/09/2025	14:05	LB136407
	Zinc	2580	2500	103	90 - 110	P	07/09/2025	14:05	LB136407
CCV05	Aluminum	10200	10000	102	90 - 110	P	07/09/2025	15:27	LB136407
	Antimony	5170	5000	103	90 - 110	P	07/09/2025	15:27	LB136407
	Arsenic	5070	5000	101	90 - 110	P	07/09/2025	15:27	LB136407
	Barium	10800	10000	108	90 - 110	P	07/09/2025	15:27	LB136407
	Beryllium	272	250	109	90 - 110	P	07/09/2025	15:27	LB136407
	Cadmium	2560	2500	103	90 - 110	P	07/09/2025	15:27	LB136407
	Calcium	26100	25000	104	90 - 110	P	07/09/2025	15:27	LB136407
	Chromium	1030	1000	103	90 - 110	P	07/09/2025	15:27	LB136407
	Cobalt	2500	2500	100	90 - 110	P	07/09/2025	15:27	LB136407
	Copper	1340	1250	107	90 - 110	P	07/09/2025	15:27	LB136407
	Iron	5360	5000	107	90 - 110	P	07/09/2025	15:27	LB136407
	Lead	5130	5000	103	90 - 110	P	07/09/2025	15:27	LB136407
	Magnesium	25100	25000	100	90 - 110	P	07/09/2025	15:27	LB136407
	Manganese	2600	2500	104	90 - 110	P	07/09/2025	15:27	LB136407

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV05	Nickel	2510	2500	100	90 - 110	P	07/09/2025	15:27	LB136407
	Potassium	26800	25000	107	90 - 110	P	07/09/2025	15:27	LB136407
	Selenium	5260	5000	105	90 - 110	P	07/09/2025	15:27	LB136407
	Silver	1280	1250	102	90 - 110	P	07/09/2025	15:27	LB136407
	Sodium	27100	25000	108	90 - 110	P	07/09/2025	15:27	LB136407
	Thallium	5270	5000	106	90 - 110	P	07/09/2025	15:27	LB136407
	Vanadium	2600	2500	104	90 - 110	P	07/09/2025	15:27	LB136407
	Zinc	2620	2500	105	90 - 110	P	07/09/2025	15:27	LB136407
CCV06	Aluminum	10100	10000	101	90 - 110	P	07/09/2025	16:39	LB136407
	Antimony	5040	5000	101	90 - 110	P	07/09/2025	16:39	LB136407
	Arsenic	4880	5000	98	90 - 110	P	07/09/2025	16:39	LB136407
	Barium	10600	10000	106	90 - 110	P	07/09/2025	16:39	LB136407
	Beryllium	260	250	104	90 - 110	P	07/09/2025	16:39	LB136407
	Cadmium	2470	2500	99	90 - 110	P	07/09/2025	16:39	LB136407
	Calcium	25600	25000	102	90 - 110	P	07/09/2025	16:39	LB136407
	Chromium	1000	1000	100	90 - 110	P	07/09/2025	16:39	LB136407
	Cobalt	2430	2500	97	90 - 110	P	07/09/2025	16:39	LB136407
	Copper	1280	1250	103	90 - 110	P	07/09/2025	16:39	LB136407
	Iron	5080	5000	102	90 - 110	P	07/09/2025	16:39	LB136407
	Lead	4940	5000	99	90 - 110	P	07/09/2025	16:39	LB136407
	Magnesium	24700	25000	99	90 - 110	P	07/09/2025	16:39	LB136407
	Manganese	2580	2500	103	90 - 110	P	07/09/2025	16:39	LB136407
	Nickel	2430	2500	97	90 - 110	P	07/09/2025	16:39	LB136407
	Potassium	25300	25000	101	90 - 110	P	07/09/2025	16:39	LB136407
	Selenium	5090	5000	102	90 - 110	P	07/09/2025	16:39	LB136407
	Silver	1250	1250	100	90 - 110	P	07/09/2025	16:39	LB136407
	Sodium	25300	25000	101	90 - 110	P	07/09/2025	16:39	LB136407
	Thallium	5110	5000	102	90 - 110	P	07/09/2025	16:39	LB136407
	Vanadium	2570	2500	103	90 - 110	P	07/09/2025	16:39	LB136407
	Zinc	2560	2500	102	90 - 110	P	07/09/2025	16:39	LB136407
CCV07	Aluminum	10000	10000	100	90 - 110	P	07/09/2025	17:50	LB136407
	Antimony	4980	5000	100	90 - 110	P	07/09/2025	17:50	LB136407
	Arsenic	4770	5000	95	90 - 110	P	07/09/2025	17:50	LB136407
	Barium	10500	10000	105	90 - 110	P	07/09/2025	17:50	LB136407

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV07	Beryllium	258	250	103	90 - 110	P	07/09/2025	17:50	LB136407
	Cadmium	2420	2500	97	90 - 110	P	07/09/2025	17:50	LB136407
	Calcium	25500	25000	102	90 - 110	P	07/09/2025	17:50	LB136407
	Chromium	982	1000	98	90 - 110	P	07/09/2025	17:50	LB136407
	Cobalt	2380	2500	95	90 - 110	P	07/09/2025	17:50	LB136407
	Copper	1270	1250	102	90 - 110	P	07/09/2025	17:50	LB136407
	Iron	5070	5000	101	90 - 110	P	07/09/2025	17:50	LB136407
	Lead	4830	5000	97	90 - 110	P	07/09/2025	17:50	LB136407
	Magnesium	24700	25000	99	90 - 110	P	07/09/2025	17:50	LB136407
	Manganese	2570	2500	103	90 - 110	P	07/09/2025	17:50	LB136407
	Nickel	2390	2500	96	90 - 110	P	07/09/2025	17:50	LB136407
	Potassium	23900	25000	96	90 - 110	P	07/09/2025	17:50	LB136407
	Selenium	5010	5000	100	90 - 110	P	07/09/2025	17:50	LB136407
	Silver	1240	1250	99	90 - 110	P	07/09/2025	17:50	LB136407
	Sodium	24000	25000	96	90 - 110	P	07/09/2025	17:50	LB136407
	Thallium	5040	5000	101	90 - 110	P	07/09/2025	17:50	LB136407
	Vanadium	2540	2500	102	90 - 110	P	07/09/2025	17:50	LB136407
	Zinc	2520	2500	101	90 - 110	P	07/09/2025	17:50	LB136407
CCV08	Aluminum	9890	10000	99	90 - 110	P	07/09/2025	18:54	LB136407
	Antimony	4930	5000	99	90 - 110	P	07/09/2025	18:54	LB136407
	Arsenic	4700	5000	94	90 - 110	P	07/09/2025	18:54	LB136407
	Barium	10400	10000	104	90 - 110	P	07/09/2025	18:54	LB136407
	Beryllium	255	250	102	90 - 110	P	07/09/2025	18:54	LB136407
	Cadmium	2400	2500	96	90 - 110	P	07/09/2025	18:54	LB136407
	Calcium	25100	25000	100	90 - 110	P	07/09/2025	18:54	LB136407
	Chromium	966	1000	97	90 - 110	P	07/09/2025	18:54	LB136407
	Cobalt	2340	2500	94	90 - 110	P	07/09/2025	18:54	LB136407
	Copper	1250	1250	100	90 - 110	P	07/09/2025	18:54	LB136407
	Iron	5020	5000	100	90 - 110	P	07/09/2025	18:54	LB136407
	Lead	4780	5000	96	90 - 110	P	07/09/2025	18:54	LB136407
	Magnesium	24300	25000	97	90 - 110	P	07/09/2025	18:54	LB136407
	Manganese	2520	2500	101	90 - 110	P	07/09/2025	18:54	LB136407
	Nickel	2370	2500	95	90 - 110	P	07/09/2025	18:54	LB136407
	Potassium	23500	25000	94	90 - 110	P	07/09/2025	18:54	LB136407

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV08	Selenium	4970	5000	99	90 - 110	P	07/09/2025	18:54	LB136407
	Silver	1220	1250	98	90 - 110	P	07/09/2025	18:54	LB136407
	Sodium	23600	25000	94	90 - 110	P	07/09/2025	18:54	LB136407
	Thallium	5010	5000	100	90 - 110	P	07/09/2025	18:54	LB136407
	Vanadium	2510	2500	101	90 - 110	P	07/09/2025	18:54	LB136407
	Zinc	2490	2500	100	90 - 110	P	07/09/2025	18:54	LB136407
CCV09	Aluminum	9970	10000	100	90 - 110	P	07/09/2025	19:48	LB136407
	Antimony	5030	5000	101	90 - 110	P	07/09/2025	19:48	LB136407
	Arsenic	4800	5000	96	90 - 110	P	07/09/2025	19:48	LB136407
	Barium	10400	10000	104	90 - 110	P	07/09/2025	19:48	LB136407
	Beryllium	255	250	102	90 - 110	P	07/09/2025	19:48	LB136407
	Cadmium	2450	2500	98	90 - 110	P	07/09/2025	19:48	LB136407
	Calcium	25400	25000	102	90 - 110	P	07/09/2025	19:48	LB136407
	Chromium	983	1000	98	90 - 110	P	07/09/2025	19:48	LB136407
	Cobalt	2390	2500	96	90 - 110	P	07/09/2025	19:48	LB136407
	Copper	1260	1250	101	90 - 110	P	07/09/2025	19:48	LB136407
	Iron	5050	5000	101	90 - 110	P	07/09/2025	19:48	LB136407
	Lead	4870	5000	97	90 - 110	P	07/09/2025	19:48	LB136407
	Magnesium	24400	25000	98	90 - 110	P	07/09/2025	19:48	LB136407
	Manganese	2550	2500	102	90 - 110	P	07/09/2025	19:48	LB136407
	Nickel	2410	2500	97	90 - 110	P	07/09/2025	19:48	LB136407
	Potassium	23800	25000	95	90 - 110	P	07/09/2025	19:48	LB136407
	Selenium	5080	5000	102	90 - 110	P	07/09/2025	19:48	LB136407
	Silver	1250	1250	100	90 - 110	P	07/09/2025	19:48	LB136407
	Sodium	23700	25000	95	90 - 110	P	07/09/2025	19:48	LB136407
	Thallium	5120	5000	102	90 - 110	P	07/09/2025	19:48	LB136407
	Vanadium	2540	2500	102	90 - 110	P	07/09/2025	19:48	LB136407
	Zinc	2540	2500	101	90 - 110	P	07/09/2025	19:48	LB136407
CCV10	Aluminum	10100	10000	101	90 - 110	P	07/09/2025	20:41	LB136407
	Antimony	5140	5000	103	90 - 110	P	07/09/2025	20:41	LB136407
	Arsenic	4910	5000	98	90 - 110	P	07/09/2025	20:41	LB136407
	Barium	10600	10000	106	90 - 110	P	07/09/2025	20:41	LB136407
	Beryllium	260	250	104	90 - 110	P	07/09/2025	20:41	LB136407
	Cadmium	2510	2500	100	90 - 110	P	07/09/2025	20:41	LB136407

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV10	Calcium	25900	25000	103	90 - 110	P	07/09/2025	20:41	LB136407
	Chromium	1010	1000	101	90 - 110	P	07/09/2025	20:41	LB136407
	Cobalt	2440	2500	98	90 - 110	P	07/09/2025	20:41	LB136407
	Copper	1280	1250	102	90 - 110	P	07/09/2025	20:41	LB136407
	Iron	5110	5000	102	90 - 110	P	07/09/2025	20:41	LB136407
	Lead	4990	5000	100	90 - 110	P	07/09/2025	20:41	LB136407
	Magnesium	24800	25000	99	90 - 110	P	07/09/2025	20:41	LB136407
	Manganese	2610	2500	104	90 - 110	P	07/09/2025	20:41	LB136407
	Nickel	2470	2500	99	90 - 110	P	07/09/2025	20:41	LB136407
	Potassium	24600	25000	98	90 - 110	P	07/09/2025	20:41	LB136407
	Selenium	5200	5000	104	90 - 110	P	07/09/2025	20:41	LB136407
	Silver	1270	1250	102	90 - 110	P	07/09/2025	20:41	LB136407
	Sodium	24200	25000	97	90 - 110	P	07/09/2025	20:41	LB136407
	Thallium	5230	5000	105	90 - 110	P	07/09/2025	20:41	LB136407
	Vanadium	2590	2500	104	90 - 110	P	07/09/2025	20:41	LB136407
	Zinc	2610	2500	104	90 - 110	P	07/09/2025	20:41	LB136407
CCV11	Aluminum	10000	10000	100	90 - 110	P	07/09/2025	21:12	LB136407
	Antimony	4990	5000	100	90 - 110	P	07/09/2025	21:12	LB136407
	Arsenic	4740	5000	95	90 - 110	P	07/09/2025	21:12	LB136407
	Barium	10400	10000	104	90 - 110	P	07/09/2025	21:12	LB136407
	Beryllium	257	250	103	90 - 110	P	07/09/2025	21:12	LB136407
	Cadmium	2420	2500	97	90 - 110	P	07/09/2025	21:12	LB136407
	Calcium	25300	25000	101	90 - 110	P	07/09/2025	21:12	LB136407
	Chromium	975	1000	98	90 - 110	P	07/09/2025	21:12	LB136407
	Cobalt	2360	2500	95	90 - 110	P	07/09/2025	21:12	LB136407
	Copper	1260	1250	101	90 - 110	P	07/09/2025	21:12	LB136407
	Iron	5070	5000	101	90 - 110	P	07/09/2025	21:12	LB136407
	Lead	4820	5000	96	90 - 110	P	07/09/2025	21:12	LB136407
	Magnesium	24400	25000	98	90 - 110	P	07/09/2025	21:12	LB136407
	Manganese	2560	2500	102	90 - 110	P	07/09/2025	21:12	LB136407
	Nickel	2390	2500	96	90 - 110	P	07/09/2025	21:12	LB136407
	Potassium	23900	25000	96	90 - 110	P	07/09/2025	21:12	LB136407
	Selenium	5050	5000	101	90 - 110	P	07/09/2025	21:12	LB136407
	Silver	1240	1250	99	90 - 110	P	07/09/2025	21:12	LB136407

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV11	Sodium	23800	25000	95	90 - 110	P	07/09/2025	21:12	LB136407
	Thallium	5060	5000	101	90 - 110	P	07/09/2025	21:12	LB136407
	Vanadium	2550	2500	102	90 - 110	P	07/09/2025	21:12	LB136407
	Zinc	2540	2500	102	90 - 110	P	07/09/2025	21:12	LB136407

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Aluminum	7840	8000	98	90 - 110	P	07/15/2025	13:39	LB136486
	Antimony	4070	4000	102	90 - 110	P	07/15/2025	13:39	LB136486
	Arsenic	3770	4000	94	90 - 110	P	07/15/2025	13:39	LB136486
	Barium	7830	8000	98	90 - 110	P	07/15/2025	13:39	LB136486
	Beryllium	205	200	102	90 - 110	P	07/15/2025	13:39	LB136486
	Cadmium	1920	2000	96	90 - 110	P	07/15/2025	13:39	LB136486
	Calcium	19500	20000	98	90 - 110	P	07/15/2025	13:39	LB136486
	Chromium	797	800	100	90 - 110	P	07/15/2025	13:39	LB136486
	Cobalt	1960	2000	98	90 - 110	P	07/15/2025	13:39	LB136486
	Copper	1040	1000	104	90 - 110	P	07/15/2025	13:39	LB136486
	Iron	4000	4000	100	90 - 110	P	07/15/2025	13:39	LB136486
	Lead	3810	4000	95	90 - 110	P	07/15/2025	13:39	LB136486
	Magnesium	19700	20000	99	90 - 110	P	07/15/2025	13:39	LB136486
	Manganese	1960	2000	98	90 - 110	P	07/15/2025	13:39	LB136486
	Nickel	1960	2000	98	90 - 110	P	07/15/2025	13:39	LB136486
	Potassium	18400	20000	92	90 - 110	P	07/15/2025	13:39	LB136486
	Selenium	3910	4000	98	90 - 110	P	07/15/2025	13:39	LB136486
	Silver	1070	1000	107	90 - 110	P	07/15/2025	13:39	LB136486
	Sodium	19600	20000	98	90 - 110	P	07/15/2025	13:39	LB136486
	Thallium	3800	4000	95	90 - 110	P	07/15/2025	13:39	LB136486
	Vanadium	1960	2000	98	90 - 110	P	07/15/2025	13:39	LB136486
	Zinc	1980	2000	99	90 - 110	P	07/15/2025	13:39	LB136486

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Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICV1	Aluminum	113	100	113	80 - 120	P	07/15/2025	13:50	LB136486
	Antimony	54.5	50.0	109	80 - 120	P	07/15/2025	13:50	LB136486
	Arsenic	17.4	20.0	87	80 - 120	P	07/15/2025	13:50	LB136486
	Barium	101	100	101	80 - 120	P	07/15/2025	13:50	LB136486
	Beryllium	6.45	6.0	108	80 - 120	P	07/15/2025	13:50	LB136486
	Cadmium	5.65	6.0	94	80 - 120	P	07/15/2025	13:50	LB136486
	Calcium	2090	2000	105	80 - 120	P	07/15/2025	13:50	LB136486
	Chromium	9.89	10.0	99	80 - 120	P	07/15/2025	13:50	LB136486
	Cobalt	30.8	30.0	103	80 - 120	P	07/15/2025	13:50	LB136486
	Copper	22.8	20.0	114	80 - 120	P	07/15/2025	13:50	LB136486
	Iron	116	100	116	80 - 120	P	07/15/2025	13:50	LB136486
	Lead	12.7	12.0	106	80 - 120	P	07/15/2025	13:50	LB136486
	Magnesium	2300	2000	115	80 - 120	P	07/15/2025	13:50	LB136486
	Manganese	22.7	20.0	114	80 - 120	P	07/15/2025	13:50	LB136486
	Nickel	39.9	40.0	100	80 - 120	P	07/15/2025	13:50	LB136486
	Potassium	1830	2000	92	80 - 120	P	07/15/2025	13:50	LB136486
	Selenium	22.8	20.0	114	80 - 120	P	07/15/2025	13:50	LB136486
	Silver	11.4	10.0	114	80 - 120	P	07/15/2025	13:50	LB136486
	Sodium	1860	2000	93	80 - 120	P	07/15/2025	13:50	LB136486
	Thallium	42.1	40.0	105	80 - 120	P	07/15/2025	13:50	LB136486
	Vanadium	37.5	40.0	94	80 - 120	P	07/15/2025	13:50	LB136486
	Zinc	42.1	40.0	105	80 - 120	P	07/15/2025	13:50	LB136486

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Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Aluminum	10000	10000	100	90 - 110	P	07/15/2025	14:34	LB136486
	Antimony	4960	5000	99	90 - 110	P	07/15/2025	14:34	LB136486
	Arsenic	4900	5000	98	90 - 110	P	07/15/2025	14:34	LB136486
	Barium	9990	10000	100	90 - 110	P	07/15/2025	14:34	LB136486
	Beryllium	254	250	101	90 - 110	P	07/15/2025	14:34	LB136486
	Cadmium	2470	2500	99	90 - 110	P	07/15/2025	14:34	LB136486
	Calcium	25000	25000	100	90 - 110	P	07/15/2025	14:34	LB136486
	Chromium	1010	1000	101	90 - 110	P	07/15/2025	14:34	LB136486
	Cobalt	2470	2500	99	90 - 110	P	07/15/2025	14:34	LB136486
	Copper	1260	1250	101	90 - 110	P	07/15/2025	14:34	LB136486
	Iron	5120	5000	102	90 - 110	P	07/15/2025	14:34	LB136486
	Lead	4930	5000	99	90 - 110	P	07/15/2025	14:34	LB136486
	Magnesium	24600	25000	98	90 - 110	P	07/15/2025	14:34	LB136486
	Manganese	2500	2500	100	90 - 110	P	07/15/2025	14:34	LB136486
	Nickel	2480	2500	99	90 - 110	P	07/15/2025	14:34	LB136486
	Potassium	24900	25000	100	90 - 110	P	07/15/2025	14:34	LB136486
	Selenium	4960	5000	99	90 - 110	P	07/15/2025	14:34	LB136486
	Silver	1250	1250	100	90 - 110	P	07/15/2025	14:34	LB136486
	Sodium	24800	25000	99	90 - 110	P	07/15/2025	14:34	LB136486
	Thallium	4970	5000	99	90 - 110	P	07/15/2025	14:34	LB136486
	Vanadium	2500	2500	100	90 - 110	P	07/15/2025	14:34	LB136486
	Zinc	2480	2500	99	90 - 110	P	07/15/2025	14:34	LB136486
CCV02	Aluminum	10100	10000	100	90 - 110	P	07/15/2025	15:11	LB136486
	Antimony	4990	5000	100	90 - 110	P	07/15/2025	15:11	LB136486
	Arsenic	4890	5000	98	90 - 110	P	07/15/2025	15:11	LB136486
	Barium	10100	10000	101	90 - 110	P	07/15/2025	15:11	LB136486
	Beryllium	254	250	101	90 - 110	P	07/15/2025	15:11	LB136486
	Cadmium	2460	2500	98	90 - 110	P	07/15/2025	15:11	LB136486
	Calcium	25100	25000	100	90 - 110	P	07/15/2025	15:11	LB136486
	Chromium	1010	1000	101	90 - 110	P	07/15/2025	15:11	LB136486
	Cobalt	2470	2500	99	90 - 110	P	07/15/2025	15:11	LB136486
	Copper	1260	1250	101	90 - 110	P	07/15/2025	15:11	LB136486
	Iron	5140	5000	103	90 - 110	P	07/15/2025	15:11	LB136486
	Lead	4910	5000	98	90 - 110	P	07/15/2025	15:11	LB136486

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV02	Magnesium	24800	25000	99	90 - 110	P	07/15/2025	15:11	LB136486
	Manganese	2510	2500	100	90 - 110	P	07/15/2025	15:11	LB136486
	Nickel	2480	2500	99	90 - 110	P	07/15/2025	15:11	LB136486
	Potassium	23500	25000	94	90 - 110	P	07/15/2025	15:11	LB136486
	Selenium	4970	5000	99	90 - 110	P	07/15/2025	15:11	LB136486
	Silver	1260	1250	101	90 - 110	P	07/15/2025	15:11	LB136486
	Sodium	23900	25000	96	90 - 110	P	07/15/2025	15:11	LB136486
	Thallium	4980	5000	100	90 - 110	P	07/15/2025	15:11	LB136486
	Vanadium	2500	2500	100	90 - 110	P	07/15/2025	15:11	LB136486
	Zinc	2460	2500	99	90 - 110	P	07/15/2025	15:11	LB136486

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Metals

- 2b -
CRDL STANDARD FOR AA & ICP

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

Initial Calibration Source:

Continuing Calibration Source:

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CRA	Mercury	0.19	0.2	95	70 - 130	CV	07/03/2025	11:24	LB136369
CRI01	Aluminum	109	100	109	65 - 135	P	07/07/2025	13:49	LB136390
	Antimony	52.7	50.0	106	65 - 135	P	07/07/2025	13:49	LB136390
	Arsenic	23.0	20.0	115	65 - 135	P	07/07/2025	13:49	LB136390
	Barium	97.5	100	98	65 - 135	P	07/07/2025	13:49	LB136390
	Beryllium	6.07	6.0	101	65 - 135	P	07/07/2025	13:49	LB136390
	Cadmium	7.08	6.0	118	65 - 135	P	07/07/2025	13:49	LB136390
	Calcium	2020	2000	101	65 - 135	P	07/07/2025	13:49	LB136390
	Chromium	11.8	10.0	118	65 - 135	P	07/07/2025	13:49	LB136390
	Cobalt	30.6	30.0	102	65 - 135	P	07/07/2025	13:49	LB136390
	Copper	22.1	20.0	111	65 - 135	P	07/07/2025	13:49	LB136390
	Iron	117	100	117	65 - 135	P	07/07/2025	13:49	LB136390
	Lead	13.7	12.0	114	65 - 135	P	07/07/2025	13:49	LB136390
	Magnesium	2100	2000	105	65 - 135	P	07/07/2025	13:49	LB136390
	Manganese	21.9	20.0	110	65 - 135	P	07/07/2025	13:49	LB136390
	Nickel	42.1	40.0	105	65 - 135	P	07/07/2025	13:49	LB136390
	Potassium	1880	2000	94	65 - 135	P	07/07/2025	13:49	LB136390
	Selenium	19.2	20.0	96	65 - 135	P	07/07/2025	13:49	LB136390
	Silver	10.6	10.0	106	65 - 135	P	07/07/2025	13:49	LB136390
	Sodium	2070	2000	104	65 - 135	P	07/07/2025	13:49	LB136390
	Thallium	42.1	40.0	105	65 - 135	P	07/07/2025	13:49	LB136390
	Vanadium	42.5	40.0	106	65 - 135	P	07/07/2025	13:49	LB136390
	Zinc	46.7	40.0	117	65 - 135	P	07/07/2025	13:49	LB136390
CRI01	Aluminum	114	100	114	65 - 135	P	07/09/2025	10:26	LB136407
	Antimony	53.6	50.0	107	65 - 135	P	07/09/2025	10:26	LB136407
	Arsenic	14.2	20.0	71	65 - 135	P	07/09/2025	10:26	LB136407
	Barium	104	100	104	65 - 135	P	07/09/2025	10:26	LB136407
	Beryllium	6.33	6.0	105	65 - 135	P	07/09/2025	10:26	LB136407
	Cadmium	5.51	6.0	92	65 - 135	P	07/09/2025	10:26	LB136407
	Calcium	1930	2000	96	65 - 135	P	07/09/2025	10:26	LB136407
	Chromium	10.7	10.0	107	65 - 135	P	07/09/2025	10:26	LB136407
	Cobalt	29.1	30.0	97	65 - 135	P	07/09/2025	10:26	LB136407
	Copper	24.1	20.0	120	65 - 135	P	07/09/2025	10:26	LB136407
	Iron	119	100	119	65 - 135	P	07/09/2025	10:26	LB136407
	Lead	11.5	12.0	96	65 - 135	P	07/09/2025	10:26	LB136407

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Metals

- 2b -

CRDL STANDARD FOR AA & ICP

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

Initial Calibration Source:

Continuing Calibration Source:

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CRI01	Magnesium	2060	2000	103	65 - 135	P	07/09/2025	10:26	LB136407
	Manganese	22.6	20.0	113	65 - 135	P	07/09/2025	10:26	LB136407
	Nickel	38.2	40.0	96	65 - 135	P	07/09/2025	10:26	LB136407
	Potassium	1710	2000	86	65 - 135	P	07/09/2025	10:26	LB136407
	Selenium	22.8	20.0	114	65 - 135	P	07/09/2025	10:26	LB136407
	Silver	11.6	10.0	116	65 - 135	P	07/09/2025	10:26	LB136407
	Sodium	1830	2000	92	65 - 135	P	07/09/2025	10:26	LB136407
	Thallium	38.4	40.0	96	65 - 135	P	07/09/2025	10:26	LB136407
	Vanadium	32.0	40.0	80	65 - 135	P	07/09/2025	10:26	LB136407
	Zinc	43.1	40.0	108	65 - 135	P	07/09/2025	10:26	LB136407
CRI01	Aluminum	98.0	100	98	65 - 135	P	07/15/2025	14:05	LB136486
	Antimony	52.4	50.0	105	65 - 135	P	07/15/2025	14:05	LB136486
	Arsenic	16.4	20.0	82	65 - 135	P	07/15/2025	14:05	LB136486
	Barium	101	100	101	65 - 135	P	07/15/2025	14:05	LB136486
	Beryllium	6.27	6.0	104	65 - 135	P	07/15/2025	14:05	LB136486
	Cadmium	5.56	6.0	93	65 - 135	P	07/15/2025	14:05	LB136486
	Calcium	2020	2000	101	65 - 135	P	07/15/2025	14:05	LB136486
	Chromium	10.0	10.0	100	65 - 135	P	07/15/2025	14:05	LB136486
	Cobalt	29.9	30.0	100	65 - 135	P	07/15/2025	14:05	LB136486
	Copper	22.0	20.0	110	65 - 135	P	07/15/2025	14:05	LB136486
	Iron	113	100	113	65 - 135	P	07/15/2025	14:05	LB136486
	Lead	13.4	12.0	111	65 - 135	P	07/15/2025	14:05	LB136486
	Magnesium	2190	2000	110	65 - 135	P	07/15/2025	14:05	LB136486
	Manganese	22.2	20.0	111	65 - 135	P	07/15/2025	14:05	LB136486
	Nickel	39.2	40.0	98	65 - 135	P	07/15/2025	14:05	LB136486
	Potassium	1790	2000	90	65 - 135	P	07/15/2025	14:05	LB136486
	Selenium	22.3	20.0	111	65 - 135	P	07/15/2025	14:05	LB136486
	Silver	11.2	10.0	112	65 - 135	P	07/15/2025	14:05	LB136486
	Sodium	1810	2000	90	65 - 135	P	07/15/2025	14:05	LB136486
	Thallium	40.0	40.0	100	65 - 135	P	07/15/2025	14:05	LB136486
	Vanadium	40.1	40.0	100	65 - 135	P	07/15/2025	14:05	LB136486
	Zinc	40.0	40.0	100	65 - 135	P	07/15/2025	14:05	LB136486

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB16	Mercury	0.076	+/-0.2	U	0.20	CV	07/03/2025	11:17	LB136369

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB51	Mercury	0.076	+/-0.2	U	0.20	CV	07/03/2025	11:22	LB136369
CCB52	Mercury	0.076	+/-0.2	U	0.20	CV	07/03/2025	11:50	LB136369
CCB53	Mercury	0.076	+/-0.2	U	0.20	CV	07/03/2025	12:18	LB136369
CCB54	Mercury	0.076	+/-0.2	U	0.20	CV	07/03/2025	12:33	LB136369

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Aluminum	29.5	+/-50	J	100	P	07/07/2025	13:45	LB136390
	Antimony	6.76	+/-25	U	50.0	P	07/07/2025	13:45	LB136390
	Arsenic	5.12	+/-10	U	20.0	P	07/07/2025	13:45	LB136390
	Barium	14.6	+/-50	U	100	P	07/07/2025	13:45	LB136390
	Beryllium	0.56	+/-3	U	6.00	P	07/07/2025	13:45	LB136390
	Cadmium	0.50	+/-3	U	6.00	P	07/07/2025	13:45	LB136390
	Calcium	234	+/-1000	U	2000	P	07/07/2025	13:45	LB136390
	Chromium	2.12	+/-5	U	10.0	P	07/07/2025	13:45	LB136390
	Cobalt	2.26	+/-15	U	30.0	P	07/07/2025	13:45	LB136390
	Copper	4.60	+/-10	U	20.0	P	07/07/2025	13:45	LB136390
	Iron	23.4	+/-50	U	100	P	07/07/2025	13:45	LB136390
	Lead	2.30	+/-6	U	12.0	P	07/07/2025	13:45	LB136390
	Magnesium	244	+/-1000	U	2000	P	07/07/2025	13:45	LB136390
	Manganese	5.94	+/-10	U	20.0	P	07/07/2025	13:45	LB136390
	Nickel	3.06	+/-20	U	40.0	P	07/07/2025	13:45	LB136390
	Potassium	918	+/-1000	U	2000	P	07/07/2025	13:45	LB136390
	Selenium	9.64	+/-10	U	20.0	P	07/07/2025	13:45	LB136390
	Silver	1.62	+/-5	U	10.0	P	07/07/2025	13:45	LB136390
	Sodium	868	+/-1000	U	2000	P	07/07/2025	13:45	LB136390
	Thallium	4.38	+/-20	U	40.0	P	07/07/2025	13:45	LB136390
	Vanadium	6.26	+/-20	U	40.0	P	07/07/2025	13:45	LB136390
	Zinc	16.7	+/-20	U	40.0	P	07/07/2025	13:45	LB136390

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Aluminum	11.3	+/-50	U	100	P	07/07/2025	14:42	LB136390
	Antimony	6.76	+/-25	U	50.0	P	07/07/2025	14:42	LB136390
	Arsenic	5.12	+/-10	U	20.0	P	07/07/2025	14:42	LB136390
	Barium	14.6	+/-50	U	100	P	07/07/2025	14:42	LB136390
	Beryllium	0.56	+/-3	U	6.00	P	07/07/2025	14:42	LB136390
	Cadmium	0.50	+/-3	U	6.00	P	07/07/2025	14:42	LB136390
	Calcium	234	+/-1000	U	2000	P	07/07/2025	14:42	LB136390
	Chromium	2.12	+/-5	U	10.0	P	07/07/2025	14:42	LB136390
	Cobalt	2.26	+/-15	U	30.0	P	07/07/2025	14:42	LB136390
	Copper	4.60	+/-10	U	20.0	P	07/07/2025	14:42	LB136390
	Iron	23.4	+/-50	U	100	P	07/07/2025	14:42	LB136390
	Lead	2.30	+/-6	U	12.0	P	07/07/2025	14:42	LB136390
	Magnesium	244	+/-1000	U	2000	P	07/07/2025	14:42	LB136390
	Manganese	5.94	+/-10	U	20.0	P	07/07/2025	14:42	LB136390
	Nickel	3.06	+/-20	U	40.0	P	07/07/2025	14:42	LB136390
	Potassium	918	+/-1000	U	2000	P	07/07/2025	14:42	LB136390
	Selenium	9.64	+/-10	U	20.0	P	07/07/2025	14:42	LB136390
	Silver	1.62	+/-5	U	10.0	P	07/07/2025	14:42	LB136390
	Sodium	868	+/-1000	U	2000	P	07/07/2025	14:42	LB136390
	Thallium	4.38	+/-20	U	40.0	P	07/07/2025	14:42	LB136390
	Vanadium	6.26	+/-20	U	40.0	P	07/07/2025	14:42	LB136390
	Zinc	16.7	+/-20	U	40.0	P	07/07/2025	14:42	LB136390
CCB02	Aluminum	11.3	+/-50	U	100	P	07/07/2025	15:34	LB136390
	Antimony	6.76	+/-25	U	50.0	P	07/07/2025	15:34	LB136390
	Arsenic	5.12	+/-10	U	20.0	P	07/07/2025	15:34	LB136390
	Barium	14.6	+/-50	U	100	P	07/07/2025	15:34	LB136390
	Beryllium	0.56	+/-3	U	6.00	P	07/07/2025	15:34	LB136390
	Cadmium	0.50	+/-3	U	6.00	P	07/07/2025	15:34	LB136390
	Calcium	234	+/-1000	U	2000	P	07/07/2025	15:34	LB136390
	Chromium	2.12	+/-5	U	10.0	P	07/07/2025	15:34	LB136390
	Cobalt	2.26	+/-15	U	30.0	P	07/07/2025	15:34	LB136390
	Copper	4.60	+/-10	U	20.0	P	07/07/2025	15:34	LB136390
	Iron	23.4	+/-50	U	100	P	07/07/2025	15:34	LB136390
	Lead	2.30	+/-6	U	12.0	P	07/07/2025	15:34	LB136390
	Magnesium	244	+/-1000	U	2000	P	07/07/2025	15:34	LB136390
	Manganese	5.94	+/-10	U	20.0	P	07/07/2025	15:34	LB136390
	Nickel	3.06	+/-20	U	40.0	P	07/07/2025	15:34	LB136390
	Potassium	918	+/-1000	U	2000	P	07/07/2025	15:34	LB136390
	Selenium	9.64	+/-10	U	20.0	P	07/07/2025	15:34	LB136390

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB02	Silver	1.62	+/-5	U	10.0	P	07/07/2025	15:34	LB136390
	Sodium	868	+/-1000	U	2000	P	07/07/2025	15:34	LB136390
	Thallium	4.38	+/-20	U	40.0	P	07/07/2025	15:34	LB136390
	Vanadium	6.26	+/-20	U	40.0	P	07/07/2025	15:34	LB136390
	Zinc	16.7	+/-20	U	40.0	P	07/07/2025	15:34	LB136390
CCB03	Aluminum	11.3	+/-50	U	100	P	07/07/2025	16:37	LB136390
	Antimony	6.76	+/-25	U	50.0	P	07/07/2025	16:37	LB136390
	Arsenic	5.12	+/-10	U	20.0	P	07/07/2025	16:37	LB136390
	Barium	14.6	+/-50	U	100	P	07/07/2025	16:37	LB136390
	Beryllium	0.56	+/-3	U	6.00	P	07/07/2025	16:37	LB136390
	Cadmium	0.50	+/-3	U	6.00	P	07/07/2025	16:37	LB136390
	Calcium	234	+/-1000	U	2000	P	07/07/2025	16:37	LB136390
	Chromium	2.12	+/-5	U	10.0	P	07/07/2025	16:37	LB136390
	Cobalt	2.26	+/-15	U	30.0	P	07/07/2025	16:37	LB136390
	Copper	4.60	+/-10	U	20.0	P	07/07/2025	16:37	LB136390
	Iron	23.4	+/-50	U	100	P	07/07/2025	16:37	LB136390
	Lead	2.30	+/-6	U	12.0	P	07/07/2025	16:37	LB136390
	Magnesium	244	+/-1000	U	2000	P	07/07/2025	16:37	LB136390
	Manganese	5.94	+/-10	U	20.0	P	07/07/2025	16:37	LB136390
	Nickel	3.06	+/-20	U	40.0	P	07/07/2025	16:37	LB136390
	Potassium	918	+/-1000	U	2000	P	07/07/2025	16:37	LB136390
	Selenium	9.64	+/-10	U	20.0	P	07/07/2025	16:37	LB136390
	Silver	1.62	+/-5	U	10.0	P	07/07/2025	16:37	LB136390
	Sodium	868	+/-1000	U	2000	P	07/07/2025	16:37	LB136390
	Thallium	4.38	+/-20	U	40.0	P	07/07/2025	16:37	LB136390
	Vanadium	6.26	+/-20	U	40.0	P	07/07/2025	16:37	LB136390
	Zinc	16.7	+/-20	U	40.0	P	07/07/2025	16:37	LB136390
CCB04	Aluminum	11.3	+/-50	U	100	P	07/07/2025	17:35	LB136390
	Antimony	6.76	+/-25	U	50.0	P	07/07/2025	17:35	LB136390
	Arsenic	5.12	+/-10	U	20.0	P	07/07/2025	17:35	LB136390
	Barium	14.6	+/-50	U	100	P	07/07/2025	17:35	LB136390
	Beryllium	0.56	+/-3	U	6.00	P	07/07/2025	17:35	LB136390
	Cadmium	0.50	+/-3	U	6.00	P	07/07/2025	17:35	LB136390
	Calcium	234	+/-1000	U	2000	P	07/07/2025	17:35	LB136390
	Chromium	2.12	+/-5	U	10.0	P	07/07/2025	17:35	LB136390
	Cobalt	2.26	+/-15	U	30.0	P	07/07/2025	17:35	LB136390
	Copper	4.60	+/-10	U	20.0	P	07/07/2025	17:35	LB136390
	Iron	23.4	+/-50	U	100	P	07/07/2025	17:35	LB136390
	Lead	2.30	+/-6	U	12.0	P	07/07/2025	17:35	LB136390

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB04	Magnesium	244	+/-1000	U	2000	P	07/07/2025	17:35	LB136390
	Manganese	5.94	+/-10	U	20.0	P	07/07/2025	17:35	LB136390
	Nickel	3.06	+/-20	U	40.0	P	07/07/2025	17:35	LB136390
	Potassium	918	+/-1000	U	2000	P	07/07/2025	17:35	LB136390
	Selenium	9.64	+/-10	U	20.0	P	07/07/2025	17:35	LB136390
	Silver	1.62	+/-5	U	10.0	P	07/07/2025	17:35	LB136390
	Sodium	868	+/-1000	U	2000	P	07/07/2025	17:35	LB136390
	Thallium	4.38	+/-20	U	40.0	P	07/07/2025	17:35	LB136390
	Vanadium	6.26	+/-20	U	40.0	P	07/07/2025	17:35	LB136390
	Zinc	16.7	+/-20	U	40.0	P	07/07/2025	17:35	LB136390
CCB05	Aluminum	12.2	+/-50	J	100	P	07/08/2025	01:47	LB136390
	Antimony	6.76	+/-25	U	50.0	P	07/08/2025	01:47	LB136390
	Arsenic	5.12	+/-10	U	20.0	P	07/08/2025	01:47	LB136390
	Barium	14.6	+/-50	U	100	P	07/08/2025	01:47	LB136390
	Beryllium	0.56	+/-3	U	6.00	P	07/08/2025	01:47	LB136390
	Cadmium	0.50	+/-3	U	6.00	P	07/08/2025	01:47	LB136390
	Calcium	234	+/-1000	U	2000	P	07/08/2025	01:47	LB136390
	Chromium	2.12	+/-5	U	10.0	P	07/08/2025	01:47	LB136390
	Cobalt	2.26	+/-15	U	30.0	P	07/08/2025	01:47	LB136390
	Copper	4.60	+/-10	U	20.0	P	07/08/2025	01:47	LB136390
	Iron	23.4	+/-50	U	100	P	07/08/2025	01:47	LB136390
	Lead	2.30	+/-6	U	12.0	P	07/08/2025	01:47	LB136390
	Magnesium	244	+/-1000	U	2000	P	07/08/2025	01:47	LB136390
	Manganese	5.94	+/-10	U	20.0	P	07/08/2025	01:47	LB136390
	Nickel	3.06	+/-20	U	40.0	P	07/08/2025	01:47	LB136390
	Potassium	918	+/-1000	U	2000	P	07/08/2025	01:47	LB136390
	Selenium	9.64	+/-10	U	20.0	P	07/08/2025	01:47	LB136390
	Silver	1.62	+/-5	U	10.0	P	07/08/2025	01:47	LB136390
	Sodium	868	+/-1000	U	2000	P	07/08/2025	01:47	LB136390
	Thallium	4.38	+/-20	U	40.0	P	07/08/2025	01:47	LB136390
	Vanadium	6.26	+/-20	U	40.0	P	07/08/2025	01:47	LB136390
	Zinc	16.7	+/-20	U	40.0	P	07/08/2025	01:47	LB136390
CCB06	Aluminum	11.3	+/-50	U	100	P	07/08/2025	02:53	LB136390
	Antimony	6.76	+/-25	U	50.0	P	07/08/2025	02:53	LB136390
	Arsenic	5.12	+/-10	U	20.0	P	07/08/2025	02:53	LB136390
	Barium	14.6	+/-50	U	100	P	07/08/2025	02:53	LB136390
	Beryllium	0.56	+/-3	U	6.00	P	07/08/2025	02:53	LB136390
	Cadmium	0.50	+/-3	U	6.00	P	07/08/2025	02:53	LB136390
	Calcium	234	+/-1000	U	2000	P	07/08/2025	02:53	LB136390

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB06	Chromium	2.12	+/-5	U	10.0	P	07/08/2025	02:53	LB136390
	Cobalt	2.26	+/-15	U	30.0	P	07/08/2025	02:53	LB136390
	Copper	4.60	+/-10	U	20.0	P	07/08/2025	02:53	LB136390
	Iron	23.4	+/-50	U	100	P	07/08/2025	02:53	LB136390
	Lead	2.30	+/-6	U	12.0	P	07/08/2025	02:53	LB136390
	Magnesium	244	+/-1000	U	2000	P	07/08/2025	02:53	LB136390
	Manganese	5.94	+/-10	U	20.0	P	07/08/2025	02:53	LB136390
	Nickel	3.06	+/-20	U	40.0	P	07/08/2025	02:53	LB136390
	Potassium	918	+/-1000	U	2000	P	07/08/2025	02:53	LB136390
	Selenium	9.64	+/-10	U	20.0	P	07/08/2025	02:53	LB136390
	Silver	1.62	+/-5	U	10.0	P	07/08/2025	02:53	LB136390
	Sodium	868	+/-1000	U	2000	P	07/08/2025	02:53	LB136390
	Thallium	4.38	+/-20	U	40.0	P	07/08/2025	02:53	LB136390
	Vanadium	6.26	+/-20	U	40.0	P	07/08/2025	02:53	LB136390
	Zinc	16.7	+/-20	U	40.0	P	07/08/2025	02:53	LB136390
CCB07	Aluminum	11.3	+/-50	U	100	P	07/08/2025	03:44	LB136390
	Antimony	6.76	+/-25	U	50.0	P	07/08/2025	03:44	LB136390
	Arsenic	5.12	+/-10	U	20.0	P	07/08/2025	03:44	LB136390
	Barium	14.6	+/-50	U	100	P	07/08/2025	03:44	LB136390
	Beryllium	0.56	+/-3	U	6.00	P	07/08/2025	03:44	LB136390
	Cadmium	0.50	+/-3	U	6.00	P	07/08/2025	03:44	LB136390
	Calcium	234	+/-1000	U	2000	P	07/08/2025	03:44	LB136390
	Chromium	2.12	+/-5	U	10.0	P	07/08/2025	03:44	LB136390
	Cobalt	2.26	+/-15	U	30.0	P	07/08/2025	03:44	LB136390
	Copper	4.60	+/-10	U	20.0	P	07/08/2025	03:44	LB136390
	Iron	23.4	+/-50	U	100	P	07/08/2025	03:44	LB136390
	Lead	2.30	+/-6	U	12.0	P	07/08/2025	03:44	LB136390
	Magnesium	244	+/-1000	U	2000	P	07/08/2025	03:44	LB136390
	Manganese	5.94	+/-10	U	20.0	P	07/08/2025	03:44	LB136390
	Nickel	3.06	+/-20	U	40.0	P	07/08/2025	03:44	LB136390
	Potassium	918	+/-1000	U	2000	P	07/08/2025	03:44	LB136390
	Selenium	9.64	+/-10	U	20.0	P	07/08/2025	03:44	LB136390
	Silver	1.62	+/-5	U	10.0	P	07/08/2025	03:44	LB136390
	Sodium	868	+/-1000	U	2000	P	07/08/2025	03:44	LB136390
	Thallium	4.38	+/-20	U	40.0	P	07/08/2025	03:44	LB136390
	Vanadium	6.26	+/-20	U	40.0	P	07/08/2025	03:44	LB136390
	Zinc	16.7	+/-20	U	40.0	P	07/08/2025	03:44	LB136390

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Aluminum	31.1	+/-50	J	100	P	07/09/2025	10:22	LB136407
	Antimony	6.76	+/-25	U	50.0	P	07/09/2025	10:22	LB136407
	Arsenic	5.12	+/-10	U	20.0	P	07/09/2025	10:22	LB136407
	Barium	14.6	+/-50	U	100	P	07/09/2025	10:22	LB136407
	Beryllium	0.56	+/-3	U	6.00	P	07/09/2025	10:22	LB136407
	Cadmium	0.50	+/-3	U	6.00	P	07/09/2025	10:22	LB136407
	Calcium	234	+/-1000	U	2000	P	07/09/2025	10:22	LB136407
	Chromium	2.12	+/-5	U	10.0	P	07/09/2025	10:22	LB136407
	Cobalt	2.26	+/-15	U	30.0	P	07/09/2025	10:22	LB136407
	Copper	4.60	+/-10	U	20.0	P	07/09/2025	10:22	LB136407
	Iron	25.4	+/-50	J	100	P	07/09/2025	10:22	LB136407
	Lead	2.30	+/-6	U	12.0	P	07/09/2025	10:22	LB136407
	Magnesium	244	+/-1000	U	2000	P	07/09/2025	10:22	LB136407
	Manganese	7.46	+/-10	J	20.0	P	07/09/2025	10:22	LB136407
	Nickel	3.06	+/-20	U	40.0	P	07/09/2025	10:22	LB136407
	Potassium	918	+/-1000	U	2000	P	07/09/2025	10:22	LB136407
	Selenium	9.64	+/-10	U	20.0	P	07/09/2025	10:22	LB136407
	Silver	1.62	+/-5	U	10.0	P	07/09/2025	10:22	LB136407
	Sodium	868	+/-1000	U	2000	P	07/09/2025	10:22	LB136407
	Thallium	4.38	+/-20	U	40.0	P	07/09/2025	10:22	LB136407
	Vanadium	6.26	+/-20	U	40.0	P	07/09/2025	10:22	LB136407
	Zinc	4.21	+/-20	J	40.0	P	07/09/2025	10:22	LB136407

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Aluminum	11.3	+/-50	U	100	P	07/09/2025	10:57	LB136407
	Antimony	6.76	+/-25	U	50.0	P	07/09/2025	10:57	LB136407
	Arsenic	5.12	+/-10	U	20.0	P	07/09/2025	10:57	LB136407
	Barium	14.6	+/-50	U	100	P	07/09/2025	10:57	LB136407
	Beryllium	0.56	+/-3	U	6.00	P	07/09/2025	10:57	LB136407
	Cadmium	0.50	+/-3	U	6.00	P	07/09/2025	10:57	LB136407
	Calcium	234	+/-1000	U	2000	P	07/09/2025	10:57	LB136407
	Chromium	2.12	+/-5	U	10.0	P	07/09/2025	10:57	LB136407
	Cobalt	2.26	+/-15	U	30.0	P	07/09/2025	10:57	LB136407
	Copper	4.60	+/-10	U	20.0	P	07/09/2025	10:57	LB136407
	Iron	23.4	+/-50	U	100	P	07/09/2025	10:57	LB136407
	Lead	2.30	+/-6	U	12.0	P	07/09/2025	10:57	LB136407
	Magnesium	244	+/-1000	U	2000	P	07/09/2025	10:57	LB136407
	Manganese	5.94	+/-10	U	20.0	P	07/09/2025	10:57	LB136407
	Nickel	3.06	+/-20	U	40.0	P	07/09/2025	10:57	LB136407
	Potassium	918	+/-1000	U	2000	P	07/09/2025	10:57	LB136407
	Selenium	9.64	+/-10	U	20.0	P	07/09/2025	10:57	LB136407
	Silver	1.62	+/-5	U	10.0	P	07/09/2025	10:57	LB136407
	Sodium	868	+/-1000	U	2000	P	07/09/2025	10:57	LB136407
	Thallium	4.38	+/-20	U	40.0	P	07/09/2025	10:57	LB136407
	Vanadium	6.26	+/-20	U	40.0	P	07/09/2025	10:57	LB136407
	Zinc	3.50	+/-20	U	40.0	P	07/09/2025	10:57	LB136407
CCB02	Aluminum	27.5	+/-50	J	100	P	07/09/2025	11:56	LB136407
	Antimony	6.76	+/-25	U	50.0	P	07/09/2025	11:56	LB136407
	Arsenic	5.12	+/-10	U	20.0	P	07/09/2025	11:56	LB136407
	Barium	14.6	+/-50	U	100	P	07/09/2025	11:56	LB136407
	Beryllium	0.56	+/-3	U	6.00	P	07/09/2025	11:56	LB136407
	Cadmium	0.50	+/-3	U	6.00	P	07/09/2025	11:56	LB136407
	Calcium	234	+/-1000	U	2000	P	07/09/2025	11:56	LB136407
	Chromium	2.12	+/-5	U	10.0	P	07/09/2025	11:56	LB136407
	Cobalt	2.26	+/-15	U	30.0	P	07/09/2025	11:56	LB136407
	Copper	4.60	+/-10	U	20.0	P	07/09/2025	11:56	LB136407
	Iron	23.4	+/-50	U	100	P	07/09/2025	11:56	LB136407
	Lead	2.30	+/-6	U	12.0	P	07/09/2025	11:56	LB136407
	Magnesium	244	+/-1000	U	2000	P	07/09/2025	11:56	LB136407
	Manganese	5.94	+/-10	U	20.0	P	07/09/2025	11:56	LB136407
	Nickel	3.06	+/-20	U	40.0	P	07/09/2025	11:56	LB136407
	Potassium	918	+/-1000	U	2000	P	07/09/2025	11:56	LB136407
	Selenium	9.64	+/-10	U	20.0	P	07/09/2025	11:56	LB136407

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB02	Silver	1.62	+/-5	U	10.0	P	07/09/2025	11:56	LB136407
	Sodium	868	+/-1000	U	2000	P	07/09/2025	11:56	LB136407
	Thallium	4.38	+/-20	U	40.0	P	07/09/2025	11:56	LB136407
	Vanadium	6.26	+/-20	U	40.0	P	07/09/2025	11:56	LB136407
	Zinc	3.50	+/-20	U	40.0	P	07/09/2025	11:56	LB136407
CCB03	Aluminum	65.9	+/-50	J*	100	P	07/09/2025	12:58	LB136407
	Antimony	6.76	+/-25	U	50.0	P	07/09/2025	12:58	LB136407
	Arsenic	5.12	+/-10	U	20.0	P	07/09/2025	12:58	LB136407
	Barium	14.6	+/-50	U	100	P	07/09/2025	12:58	LB136407
	Beryllium	0.56	+/-3	U	6.00	P	07/09/2025	12:58	LB136407
	Cadmium	0.50	+/-3	U	6.00	P	07/09/2025	12:58	LB136407
	Calcium	234	+/-1000	U	2000	P	07/09/2025	12:58	LB136407
	Chromium	2.12	+/-5	U	10.0	P	07/09/2025	12:58	LB136407
	Cobalt	2.26	+/-15	U	30.0	P	07/09/2025	12:58	LB136407
	Copper	4.60	+/-10	U	20.0	P	07/09/2025	12:58	LB136407
	Iron	23.4	+/-50	U	100	P	07/09/2025	12:58	LB136407
	Lead	2.30	+/-6	U	12.0	P	07/09/2025	12:58	LB136407
	Magnesium	244	+/-1000	U	2000	P	07/09/2025	12:58	LB136407
	Manganese	5.94	+/-10	U	20.0	P	07/09/2025	12:58	LB136407
	Nickel	3.06	+/-20	U	40.0	P	07/09/2025	12:58	LB136407
	Potassium	918	+/-1000	U	2000	P	07/09/2025	12:58	LB136407
	Selenium	9.64	+/-10	U	20.0	P	07/09/2025	12:58	LB136407
	Silver	1.62	+/-5	U	10.0	P	07/09/2025	12:58	LB136407
	Sodium	868	+/-1000	U	2000	P	07/09/2025	12:58	LB136407
	Thallium	4.38	+/-20	U	40.0	P	07/09/2025	12:58	LB136407
	Vanadium	6.26	+/-20	U	40.0	P	07/09/2025	12:58	LB136407
	Zinc	3.50	+/-20	U	40.0	P	07/09/2025	12:58	LB136407
CCB04	Aluminum	47.3	+/-50	J	100	P	07/09/2025	14:28	LB136407
	Antimony	6.76	+/-25	U	50.0	P	07/09/2025	14:28	LB136407
	Arsenic	5.12	+/-10	U	20.0	P	07/09/2025	14:28	LB136407
	Barium	14.6	+/-50	U	100	P	07/09/2025	14:28	LB136407
	Beryllium	0.56	+/-3	U	6.00	P	07/09/2025	14:28	LB136407
	Cadmium	0.50	+/-3	U	6.00	P	07/09/2025	14:28	LB136407
	Calcium	234	+/-1000	U	2000	P	07/09/2025	14:28	LB136407
	Chromium	2.12	+/-5	U	10.0	P	07/09/2025	14:28	LB136407
	Cobalt	2.26	+/-15	U	30.0	P	07/09/2025	14:28	LB136407
	Copper	4.60	+/-10	U	20.0	P	07/09/2025	14:28	LB136407
	Iron	23.4	+/-50	U	100	P	07/09/2025	14:28	LB136407
	Lead	2.30	+/-6	U	12.0	P	07/09/2025	14:28	LB136407

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB04	Magnesium	244	+/-1000	U	2000	P	07/09/2025	14:28	LB136407
	Manganese	5.94	+/-10	U	20.0	P	07/09/2025	14:28	LB136407
	Nickel	3.06	+/-20	U	40.0	P	07/09/2025	14:28	LB136407
	Potassium	918	+/-1000	U	2000	P	07/09/2025	14:28	LB136407
	Selenium	9.64	+/-10	U	20.0	P	07/09/2025	14:28	LB136407
	Silver	7.86	+/-5	J*	10.0	P	07/09/2025	14:28	LB136407
	Sodium	868	+/-1000	U	2000	P	07/09/2025	14:28	LB136407
	Thallium	4.38	+/-20	U	40.0	P	07/09/2025	14:28	LB136407
	Vanadium	6.26	+/-20	U	40.0	P	07/09/2025	14:28	LB136407
	Zinc	3.50	+/-20	U	40.0	P	07/09/2025	14:28	LB136407
CCB05	Aluminum	26.6	+/-50	J	100	P	07/09/2025	15:33	LB136407
	Antimony	6.76	+/-25	U	50.0	P	07/09/2025	15:33	LB136407
	Arsenic	5.12	+/-10	U	20.0	P	07/09/2025	15:33	LB136407
	Barium	14.6	+/-50	U	100	P	07/09/2025	15:33	LB136407
	Beryllium	0.56	+/-3	U	6.00	P	07/09/2025	15:33	LB136407
	Cadmium	0.50	+/-3	U	6.00	P	07/09/2025	15:33	LB136407
	Calcium	234	+/-1000	U	2000	P	07/09/2025	15:33	LB136407
	Chromium	2.12	+/-5	U	10.0	P	07/09/2025	15:33	LB136407
	Cobalt	2.26	+/-15	U	30.0	P	07/09/2025	15:33	LB136407
	Copper	4.60	+/-10	U	20.0	P	07/09/2025	15:33	LB136407
	Iron	23.4	+/-50	U	100	P	07/09/2025	15:33	LB136407
	Lead	2.30	+/-6	U	12.0	P	07/09/2025	15:33	LB136407
	Magnesium	244	+/-1000	U	2000	P	07/09/2025	15:33	LB136407
	Manganese	5.94	+/-10	U	20.0	P	07/09/2025	15:33	LB136407
	Nickel	3.06	+/-20	U	40.0	P	07/09/2025	15:33	LB136407
	Potassium	918	+/-1000	U	2000	P	07/09/2025	15:33	LB136407
	Selenium	9.64	+/-10	U	20.0	P	07/09/2025	15:33	LB136407
	Silver	6.92	+/-5	J*	10.0	P	07/09/2025	15:33	LB136407
	Sodium	868	+/-1000	U	2000	P	07/09/2025	15:33	LB136407
	Thallium	4.38	+/-20	U	40.0	P	07/09/2025	15:33	LB136407
	Vanadium	6.26	+/-20	U	40.0	P	07/09/2025	15:33	LB136407
	Zinc	3.50	+/-20	U	40.0	P	07/09/2025	15:33	LB136407
CCB06	Aluminum	18.8	+/-50	J	100	P	07/09/2025	16:43	LB136407
	Antimony	6.76	+/-25	U	50.0	P	07/09/2025	16:43	LB136407
	Arsenic	5.12	+/-10	U	20.0	P	07/09/2025	16:43	LB136407
	Barium	14.6	+/-50	U	100	P	07/09/2025	16:43	LB136407
	Beryllium	0.56	+/-3	U	6.00	P	07/09/2025	16:43	LB136407
	Cadmium	0.50	+/-3	U	6.00	P	07/09/2025	16:43	LB136407
	Calcium	234	+/-1000	U	2000	P	07/09/2025	16:43	LB136407

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB06	Chromium	2.12	+/-5	U	10.0	P	07/09/2025	16:43	LB136407
	Cobalt	2.26	+/-15	U	30.0	P	07/09/2025	16:43	LB136407
	Copper	4.60	+/-10	U	20.0	P	07/09/2025	16:43	LB136407
	Iron	23.4	+/-50	U	100	P	07/09/2025	16:43	LB136407
	Lead	2.30	+/-6	U	12.0	P	07/09/2025	16:43	LB136407
	Magnesium	244	+/-1000	U	2000	P	07/09/2025	16:43	LB136407
	Manganese	5.94	+/-10	U	20.0	P	07/09/2025	16:43	LB136407
	Nickel	3.06	+/-20	U	40.0	P	07/09/2025	16:43	LB136407
	Potassium	918	+/-1000	U	2000	P	07/09/2025	16:43	LB136407
	Selenium	9.64	+/-10	U	20.0	P	07/09/2025	16:43	LB136407
	Silver	3.51	+/-5	J	10.0	P	07/09/2025	16:43	LB136407
	Sodium	868	+/-1000	U	2000	P	07/09/2025	16:43	LB136407
	Thallium	4.38	+/-20	U	40.0	P	07/09/2025	16:43	LB136407
	Vanadium	6.26	+/-20	U	40.0	P	07/09/2025	16:43	LB136407
	Zinc	3.50	+/-20	U	40.0	P	07/09/2025	16:43	LB136407
CCB07	Aluminum	11.3	+/-50	U	100	P	07/09/2025	17:54	LB136407
	Antimony	6.76	+/-25	U	50.0	P	07/09/2025	17:54	LB136407
	Arsenic	5.12	+/-10	U	20.0	P	07/09/2025	17:54	LB136407
	Barium	14.6	+/-50	U	100	P	07/09/2025	17:54	LB136407
	Beryllium	0.56	+/-3	U	6.00	P	07/09/2025	17:54	LB136407
	Cadmium	0.50	+/-3	U	6.00	P	07/09/2025	17:54	LB136407
	Calcium	234	+/-1000	U	2000	P	07/09/2025	17:54	LB136407
	Chromium	2.12	+/-5	U	10.0	P	07/09/2025	17:54	LB136407
	Cobalt	2.26	+/-15	U	30.0	P	07/09/2025	17:54	LB136407
	Copper	4.60	+/-10	U	20.0	P	07/09/2025	17:54	LB136407
	Iron	23.4	+/-50	U	100	P	07/09/2025	17:54	LB136407
	Lead	2.30	+/-6	U	12.0	P	07/09/2025	17:54	LB136407
	Magnesium	244	+/-1000	U	2000	P	07/09/2025	17:54	LB136407
	Manganese	5.94	+/-10	U	20.0	P	07/09/2025	17:54	LB136407
	Nickel	3.06	+/-20	U	40.0	P	07/09/2025	17:54	LB136407
	Potassium	918	+/-1000	U	2000	P	07/09/2025	17:54	LB136407
	Selenium	9.64	+/-10	U	20.0	P	07/09/2025	17:54	LB136407
	Silver	2.23	+/-5	J	10.0	P	07/09/2025	17:54	LB136407
	Sodium	868	+/-1000	U	2000	P	07/09/2025	17:54	LB136407
	Thallium	4.38	+/-20	U	40.0	P	07/09/2025	17:54	LB136407
	Vanadium	6.26	+/-20	U	40.0	P	07/09/2025	17:54	LB136407
	Zinc	3.50	+/-20	U	40.0	P	07/09/2025	17:54	LB136407
CCB08	Aluminum	44.5	+/-50	J	100	P	07/09/2025	18:58	LB136407
	Antimony	6.76	+/-25	U	50.0	P	07/09/2025	18:58	LB136407

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB08	Arsenic	5.12	+/-10	U	20.0	P	07/09/2025	18:58	LB136407
	Barium	14.6	+/-50	U	100	P	07/09/2025	18:58	LB136407
	Beryllium	0.56	+/-3	U	6.00	P	07/09/2025	18:58	LB136407
	Cadmium	0.50	+/-3	U	6.00	P	07/09/2025	18:58	LB136407
	Calcium	234	+/-1000	U	2000	P	07/09/2025	18:58	LB136407
	Chromium	2.12	+/-5	U	10.0	P	07/09/2025	18:58	LB136407
	Cobalt	2.26	+/-15	U	30.0	P	07/09/2025	18:58	LB136407
	Copper	4.60	+/-10	U	20.0	P	07/09/2025	18:58	LB136407
	Iron	23.4	+/-50	U	100	P	07/09/2025	18:58	LB136407
	Lead	3.36	+/-6	J	12.0	P	07/09/2025	18:58	LB136407
	Magnesium	244	+/-1000	U	2000	P	07/09/2025	18:58	LB136407
	Manganese	5.94	+/-10	U	20.0	P	07/09/2025	18:58	LB136407
	Nickel	3.06	+/-20	U	40.0	P	07/09/2025	18:58	LB136407
	Potassium	918	+/-1000	U	2000	P	07/09/2025	18:58	LB136407
	Selenium	9.64	+/-10	U	20.0	P	07/09/2025	18:58	LB136407
	Silver	2.96	+/-5	J	10.0	P	07/09/2025	18:58	LB136407
	Sodium	868	+/-1000	U	2000	P	07/09/2025	18:58	LB136407
	Thallium	4.38	+/-20	U	40.0	P	07/09/2025	18:58	LB136407
	Vanadium	6.26	+/-20	U	40.0	P	07/09/2025	18:58	LB136407
	Zinc	3.50	+/-20	U	40.0	P	07/09/2025	18:58	LB136407
CCB09	Aluminum	11.3	+/-50	U	100	P	07/09/2025	19:52	LB136407
	Antimony	6.76	+/-25	U	50.0	P	07/09/2025	19:52	LB136407
	Arsenic	5.12	+/-10	U	20.0	P	07/09/2025	19:52	LB136407
	Barium	14.6	+/-50	U	100	P	07/09/2025	19:52	LB136407
	Beryllium	0.56	+/-3	U	6.00	P	07/09/2025	19:52	LB136407
	Cadmium	0.50	+/-3	U	6.00	P	07/09/2025	19:52	LB136407
	Calcium	234	+/-1000	U	2000	P	07/09/2025	19:52	LB136407
	Chromium	2.12	+/-5	U	10.0	P	07/09/2025	19:52	LB136407
	Cobalt	2.26	+/-15	U	30.0	P	07/09/2025	19:52	LB136407
	Copper	4.60	+/-10	U	20.0	P	07/09/2025	19:52	LB136407
	Iron	23.4	+/-50	U	100	P	07/09/2025	19:52	LB136407
	Lead	2.75	+/-6	J	12.0	P	07/09/2025	19:52	LB136407
	Magnesium	244	+/-1000	U	2000	P	07/09/2025	19:52	LB136407
	Manganese	5.94	+/-10	U	20.0	P	07/09/2025	19:52	LB136407
	Nickel	3.06	+/-20	U	40.0	P	07/09/2025	19:52	LB136407
	Potassium	918	+/-1000	U	2000	P	07/09/2025	19:52	LB136407
	Selenium	9.64	+/-10	U	20.0	P	07/09/2025	19:52	LB136407
	Silver	2.59	+/-5	J	10.0	P	07/09/2025	19:52	LB136407
	Sodium	868	+/-1000	U	2000	P	07/09/2025	19:52	LB136407

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB09	Thallium	4.38	+/-20	U	40.0	P	07/09/2025	19:52	LB136407
	Vanadium	6.26	+/-20	U	40.0	P	07/09/2025	19:52	LB136407
	Zinc	3.50	+/-20	U	40.0	P	07/09/2025	19:52	LB136407
CCB10	Aluminum	11.3	+/-50	U	100	P	07/09/2025	20:45	LB136407
	Antimony	6.76	+/-25	U	50.0	P	07/09/2025	20:45	LB136407
	Arsenic	5.12	+/-10	U	20.0	P	07/09/2025	20:45	LB136407
	Barium	14.6	+/-50	U	100	P	07/09/2025	20:45	LB136407
	Beryllium	0.56	+/-3	U	6.00	P	07/09/2025	20:45	LB136407
	Cadmium	0.50	+/-3	U	6.00	P	07/09/2025	20:45	LB136407
	Calcium	234	+/-1000	U	2000	P	07/09/2025	20:45	LB136407
	Chromium	2.12	+/-5	U	10.0	P	07/09/2025	20:45	LB136407
	Cobalt	2.26	+/-15	U	30.0	P	07/09/2025	20:45	LB136407
	Copper	4.60	+/-10	U	20.0	P	07/09/2025	20:45	LB136407
	Iron	23.4	+/-50	U	100	P	07/09/2025	20:45	LB136407
	Lead	2.30	+/-6	U	12.0	P	07/09/2025	20:45	LB136407
	Magnesium	244	+/-1000	U	2000	P	07/09/2025	20:45	LB136407
	Manganese	5.94	+/-10	U	20.0	P	07/09/2025	20:45	LB136407
	Nickel	3.06	+/-20	U	40.0	P	07/09/2025	20:45	LB136407
	Potassium	918	+/-1000	U	2000	P	07/09/2025	20:45	LB136407
	Selenium	9.64	+/-10	U	20.0	P	07/09/2025	20:45	LB136407
	Silver	1.92	+/-5	J	10.0	P	07/09/2025	20:45	LB136407
	Sodium	868	+/-1000	U	2000	P	07/09/2025	20:45	LB136407
	Thallium	4.38	+/-20	U	40.0	P	07/09/2025	20:45	LB136407
	Vanadium	6.26	+/-20	U	40.0	P	07/09/2025	20:45	LB136407
	Zinc	3.50	+/-20	U	40.0	P	07/09/2025	20:45	LB136407
CCB11	Aluminum	23.1	+/-50	J	100	P	07/09/2025	21:16	LB136407
	Antimony	6.76	+/-25	U	50.0	P	07/09/2025	21:16	LB136407
	Arsenic	5.12	+/-10	U	20.0	P	07/09/2025	21:16	LB136407
	Barium	14.6	+/-50	U	100	P	07/09/2025	21:16	LB136407
	Beryllium	0.56	+/-3	U	6.00	P	07/09/2025	21:16	LB136407
	Cadmium	0.50	+/-3	U	6.00	P	07/09/2025	21:16	LB136407
	Calcium	234	+/-1000	U	2000	P	07/09/2025	21:16	LB136407
	Chromium	2.12	+/-5	U	10.0	P	07/09/2025	21:16	LB136407
	Cobalt	2.26	+/-15	U	30.0	P	07/09/2025	21:16	LB136407
	Copper	4.60	+/-10	U	20.0	P	07/09/2025	21:16	LB136407
	Iron	23.4	+/-50	U	100	P	07/09/2025	21:16	LB136407
	Lead	4.79	+/-6	J	12.0	P	07/09/2025	21:16	LB136407
	Magnesium	244	+/-1000	U	2000	P	07/09/2025	21:16	LB136407
	Manganese	5.94	+/-10	U	20.0	P	07/09/2025	21:16	LB136407

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB11	Nickel	3.06	+/-20	U	40.0	P	07/09/2025	21:16	LB136407
	Potassium	918	+/-1000	U	2000	P	07/09/2025	21:16	LB136407
	Selenium	9.64	+/-10	U	20.0	P	07/09/2025	21:16	LB136407
	Silver	1.62	+/-5	U	10.0	P	07/09/2025	21:16	LB136407
	Sodium	868	+/-1000	U	2000	P	07/09/2025	21:16	LB136407
	Thallium	4.38	+/-20	U	40.0	P	07/09/2025	21:16	LB136407
	Vanadium	6.26	+/-20	U	40.0	P	07/09/2025	21:16	LB136407
	Zinc	3.50	+/-20	U	40.0	P	07/09/2025	21:16	LB136407

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Aluminum	35.6	+/-50	J	100	P	07/15/2025	14:01	LB136486
	Antimony	6.76	+/-25	U	50.0	P	07/15/2025	14:01	LB136486
	Arsenic	5.12	+/-10	U	20.0	P	07/15/2025	14:01	LB136486
	Barium	14.6	+/-50	U	100	P	07/15/2025	14:01	LB136486
	Beryllium	0.56	+/-3	U	6.00	P	07/15/2025	14:01	LB136486
	Cadmium	0.50	+/-3	U	6.00	P	07/15/2025	14:01	LB136486
	Calcium	234	+/-1000	U	2000	P	07/15/2025	14:01	LB136486
	Chromium	2.12	+/-5	U	10.0	P	07/15/2025	14:01	LB136486
	Cobalt	2.26	+/-15	U	30.0	P	07/15/2025	14:01	LB136486
	Copper	4.60	+/-10	U	20.0	P	07/15/2025	14:01	LB136486
	Iron	23.4	+/-50	U	100	P	07/15/2025	14:01	LB136486
	Lead	2.30	+/-6	U	12.0	P	07/15/2025	14:01	LB136486
	Magnesium	244	+/-1000	U	2000	P	07/15/2025	14:01	LB136486
	Manganese	5.94	+/-10	U	20.0	P	07/15/2025	14:01	LB136486
	Nickel	3.06	+/-20	U	40.0	P	07/15/2025	14:01	LB136486
	Potassium	918	+/-1000	U	2000	P	07/15/2025	14:01	LB136486
	Selenium	9.64	+/-10	U	20.0	P	07/15/2025	14:01	LB136486
	Silver	1.62	+/-5	U	10.0	P	07/15/2025	14:01	LB136486
	Sodium	868	+/-1000	U	2000	P	07/15/2025	14:01	LB136486
	Thallium	4.38	+/-20	U	40.0	P	07/15/2025	14:01	LB136486
	Vanadium	6.26	+/-20	U	40.0	P	07/15/2025	14:01	LB136486
	Zinc	3.50	+/-20	U	40.0	P	07/15/2025	14:01	LB136486

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Aluminum	11.3	+/-50	U	100	P	07/15/2025	14:39	LB136486
	Antimony	6.76	+/-25	U	50.0	P	07/15/2025	14:39	LB136486
	Arsenic	5.12	+/-10	U	20.0	P	07/15/2025	14:39	LB136486
	Barium	14.6	+/-50	U	100	P	07/15/2025	14:39	LB136486
	Beryllium	0.56	+/-3	U	6.00	P	07/15/2025	14:39	LB136486
	Cadmium	0.50	+/-3	U	6.00	P	07/15/2025	14:39	LB136486
	Calcium	234	+/-1000	U	2000	P	07/15/2025	14:39	LB136486
	Chromium	2.12	+/-5	U	10.0	P	07/15/2025	14:39	LB136486
	Cobalt	2.26	+/-15	U	30.0	P	07/15/2025	14:39	LB136486
	Copper	4.60	+/-10	U	20.0	P	07/15/2025	14:39	LB136486
	Iron	23.4	+/-50	U	100	P	07/15/2025	14:39	LB136486
	Lead	2.30	+/-6	U	12.0	P	07/15/2025	14:39	LB136486
	Magnesium	244	+/-1000	U	2000	P	07/15/2025	14:39	LB136486
	Manganese	5.94	+/-10	U	20.0	P	07/15/2025	14:39	LB136486
	Nickel	3.06	+/-20	U	40.0	P	07/15/2025	14:39	LB136486
	Potassium	918	+/-1000	U	2000	P	07/15/2025	14:39	LB136486
	Selenium	9.64	+/-10	U	20.0	P	07/15/2025	14:39	LB136486
	Silver	1.62	+/-5	U	10.0	P	07/15/2025	14:39	LB136486
	Sodium	868	+/-1000	U	2000	P	07/15/2025	14:39	LB136486
	Thallium	4.38	+/-20	U	40.0	P	07/15/2025	14:39	LB136486
	Vanadium	6.26	+/-20	U	40.0	P	07/15/2025	14:39	LB136486
	Zinc	3.50	+/-20	U	40.0	P	07/15/2025	14:39	LB136486
CCB02	Aluminum	11.3	+/-50	U	100	P	07/15/2025	15:15	LB136486
	Antimony	6.76	+/-25	U	50.0	P	07/15/2025	15:15	LB136486
	Arsenic	5.12	+/-10	U	20.0	P	07/15/2025	15:15	LB136486
	Barium	14.6	+/-50	U	100	P	07/15/2025	15:15	LB136486
	Beryllium	0.56	+/-3	U	6.00	P	07/15/2025	15:15	LB136486
	Cadmium	0.50	+/-3	U	6.00	P	07/15/2025	15:15	LB136486
	Calcium	234	+/-1000	U	2000	P	07/15/2025	15:15	LB136486
	Chromium	2.12	+/-5	U	10.0	P	07/15/2025	15:15	LB136486
	Cobalt	2.26	+/-15	U	30.0	P	07/15/2025	15:15	LB136486
	Copper	4.60	+/-10	U	20.0	P	07/15/2025	15:15	LB136486
	Iron	23.4	+/-50	U	100	P	07/15/2025	15:15	LB136486
	Lead	2.30	+/-6	U	12.0	P	07/15/2025	15:15	LB136486
	Magnesium	244	+/-1000	U	2000	P	07/15/2025	15:15	LB136486
	Manganese	5.94	+/-10	U	20.0	P	07/15/2025	15:15	LB136486
	Nickel	3.06	+/-20	U	40.0	P	07/15/2025	15:15	LB136486
	Potassium	918	+/-1000	U	2000	P	07/15/2025	15:15	LB136486
	Selenium	9.64	+/-10	U	20.0	P	07/15/2025	15:15	LB136486

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB02	Silver	1.62	+/-5	U	10.0	P	07/15/2025	15:15	LB136486
	Sodium	868	+/-1000	U	2000	P	07/15/2025	15:15	LB136486
	Thallium	4.38	+/-20	U	40.0	P	07/15/2025	15:15	LB136486
	Vanadium	6.26	+/-20	U	40.0	P	07/15/2025	15:15	LB136486
	Zinc	3.50	+/-20	U	40.0	P	07/15/2025	15:15	LB136486

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Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q2484

Instrument: CV1

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB168719BL		**SOLID**		**Batch Number:**	**PB168719**		**Prep Date:**	**07/02/2025**	
	Mercury	0.0080	<0.013	U	0.013	CV	07/03/2025	12:20	LB136369

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Metals
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PREPARATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q2484

Instrument: P4

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB168713BL		**SOLID**		**Batch Number:**	**PB168713**		**Prep Date:**	**07/03/2025**	
	Aluminum	0.84	<2.5	U	5.00	P	07/07/2025	16:45	LB136390
	Antimony	0.22	<1.25	U	2.50	P	07/07/2025	16:45	LB136390
	Arsenic	0.19	<0.5	U	1.00	P	07/07/2025	16:45	LB136390
	Barium	0.73	<2.5	U	5.00	P	07/07/2025	16:45	LB136390
	Beryllium	0.025	<0.15	U	0.30	P	07/07/2025	16:45	LB136390
	Cadmium	0.024	<0.15	U	0.30	P	07/07/2025	16:45	LB136390
	Calcium	11.1	<50	U	100	P	07/07/2025	16:45	LB136390
	Chromium	0.047	<0.25	U	0.50	P	07/07/2025	16:45	LB136390
	Cobalt	0.10	<0.75	U	1.50	P	07/07/2025	16:45	LB136390
	Copper	0.22	<0.5	U	1.00	P	07/07/2025	16:45	LB136390
	Iron	3.99	<2.5	U	5.00	P	07/07/2025	16:45	LB136390
	Lead	0.13	<0.3	U	0.60	P	07/07/2025	16:45	LB136390
	Magnesium	12.0	<50	U	100	P	07/07/2025	16:45	LB136390
	Manganese	0.14	<0.5	U	1.00	P	07/07/2025	16:45	LB136390
	Nickel	0.13	<1	U	2.00	P	07/07/2025	16:45	LB136390
	Potassium	27.7	<50	U	100	P	07/07/2025	16:45	LB136390
	Selenium	0.26	<0.5	U	1.00	P	07/07/2025	16:45	LB136390
	Silver	0.12	<0.25	U	0.50	P	07/07/2025	16:45	LB136390
	Sodium	17.8	<50	U	100	P	07/07/2025	16:45	LB136390
	Thallium	0.23	<1	U	2.00	P	07/07/2025	16:45	LB136390
	Vanadium	0.25	<1	U	2.00	P	07/07/2025	16:45	LB136390
	Zinc	0.23	<1	U	2.00	P	07/07/2025	16:45	LB136390

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Metals
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INTERFERENCE CHECK SAMPLE

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

ICS Source: EPA **Instrument ID:** P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSA01	Aluminum	241000	255000	94	216000	294000	07/07/2025	13:53	LB136390
	Antimony	5.00			-50	50	07/07/2025	13:53	LB136390
	Arsenic	-4.19			-20	20	07/07/2025	13:53	LB136390
	Barium	-3.69	6.0	62	-94	106	07/07/2025	13:53	LB136390
	Beryllium	0.58			-6	6	07/07/2025	13:53	LB136390
	Cadmium	-0.042	1.0	4	-5	7	07/07/2025	13:53	LB136390
	Calcium	231000	245000	94	208000	282000	07/07/2025	13:53	LB136390
	Chromium	53.6	52.0	103	42	62	07/07/2025	13:53	LB136390
	Cobalt	0.58			-30	30	07/07/2025	13:53	LB136390
	Copper	10.9	2.0	544	-18	22	07/07/2025	13:53	LB136390
	Iron	101000	101000	100	85600	116500	07/07/2025	13:53	LB136390
	Lead	-5.45			-12	12	07/07/2025	13:53	LB136390
	Magnesium	244000	255000	96	216000	294000	07/07/2025	13:53	LB136390
	Manganese	6.77	7.0	97	-13	27	07/07/2025	13:53	LB136390
	Nickel	15.9	2.0	795	-38	42	07/07/2025	13:53	LB136390
	Potassium	133			0	0	07/07/2025	13:53	LB136390
	Selenium	8.20			-20	20	07/07/2025	13:53	LB136390
	Silver	-6.96			-10	10	07/07/2025	13:53	LB136390
	Sodium	101			0	0	07/07/2025	13:53	LB136390
	Thallium	-0.81			-40	40	07/07/2025	13:53	LB136390
	Vanadium	4.26			-40	40	07/07/2025	13:53	LB136390
	Zinc	3.42			-40	40	07/07/2025	13:53	LB136390
ICSAB01	Aluminum	238000	247000	96	209000	285000	07/07/2025	14:10	LB136390
	Antimony	622	618	101	525	711	07/07/2025	14:10	LB136390
	Arsenic	99.1	104	95	88.4	120	07/07/2025	14:10	LB136390
	Barium	455	537	85	437	637	07/07/2025	14:10	LB136390
	Beryllium	472	495	95	420	570	07/07/2025	14:10	LB136390
	Cadmium	992	972	102	826	1120	07/07/2025	14:10	LB136390
	Calcium	227000	235000	97	199000	271000	07/07/2025	14:10	LB136390
	Chromium	558	542	103	460	624	07/07/2025	14:10	LB136390
	Cobalt	501	476	105	404	548	07/07/2025	14:10	LB136390
	Copper	495	511	97	434	588	07/07/2025	14:10	LB136390
	Iron	103000	99300	104	84400	114500	07/07/2025	14:10	LB136390
	Lead	41.5	49.0	85	37	61	07/07/2025	14:10	LB136390
	Magnesium	238000	248000	96	210000	286000	07/07/2025	14:10	LB136390
	Manganese	473	507	93	430	584	07/07/2025	14:10	LB136390
	Nickel	1010	954	106	810	1100	07/07/2025	14:10	LB136390
	Potassium	-260			0	0	07/07/2025	14:10	LB136390
	Selenium	53.0	46.0	115	26	66	07/07/2025	14:10	LB136390
	Silver	208	201	104	170	232	07/07/2025	14:10	LB136390
	Sodium	16.7			0	0	07/07/2025	14:10	LB136390
	Thallium	78.7	108	73	68	148	07/07/2025	14:10	LB136390

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Metals
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INTERFERENCE CHECK SAMPLE

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

ICS Source: EPA **Instrument ID:** P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSAB01	Vanadium	459	491	94	417	565	07/07/2025	14:10	LB136390
	Zinc	1050	952	110	809	1095	07/07/2025	14:10	LB136390
ICSA	Aluminum	240000	255000	94	216000	294000	07/07/2025	14:15	LB136390
	Antimony	9.95			-50	50	07/07/2025	14:15	LB136390
	Arsenic	-16.2			-20	20	07/07/2025	14:15	LB136390
	Barium	-48.6	6.0	810	-94	106	07/07/2025	14:15	LB136390
	Beryllium	-0.36			-6	6	07/07/2025	14:15	LB136390
	Cadmium	-2.96	1.0	296	-5	7	07/07/2025	14:15	LB136390
	Calcium	236000	245000	96	208000	282000	07/07/2025	14:15	LB136390
	Chromium	153	52.0	294	42	62	07/07/2025	14:15	LB136390
	Cobalt	1.25			-30	30	07/07/2025	14:15	LB136390
	Copper	24.1	2.0	1205	-18	22	07/07/2025	14:15	LB136390
	Iron	99500	101000	98	85600	116500	07/07/2025	14:15	LB136390
	Lead	0.64			-12	12	07/07/2025	14:15	LB136390
	Magnesium	244000	255000	96	216000	294000	07/07/2025	14:15	LB136390
	Manganese	11.2	7.0	160	-13	27	07/07/2025	14:15	LB136390
	Nickel	70.7	2.0	3535	-38	42	07/07/2025	14:15	LB136390
	Potassium	-7370			0	0	07/07/2025	14:15	LB136390
	Selenium	-53.4			-20	20	07/07/2025	14:15	LB136390
	Silver	-8.88			-10	10	07/07/2025	14:15	LB136390
	Sodium	-118			0	0	07/07/2025	14:15	LB136390
	Thallium	-40.5			-40	40	07/07/2025	14:15	LB136390
	Vanadium	8.77			-40	40	07/07/2025	14:15	LB136390
	Zinc	12.7			-40	40	07/07/2025	14:15	LB136390
ICSAB	Aluminum	244000	247000	99	209000	285000	07/07/2025	14:19	LB136390
	Antimony	588	618	95	525	711	07/07/2025	14:19	LB136390
	Arsenic	94.5	104	91	88.4	120	07/07/2025	14:19	LB136390
	Barium	474	537	88	437	637	07/07/2025	14:19	LB136390
	Beryllium	493	495	100	420	570	07/07/2025	14:19	LB136390
	Cadmium	970	972	100	826	1120	07/07/2025	14:19	LB136390
	Calcium	242000	235000	103	199000	271000	07/07/2025	14:19	LB136390
	Chromium	587	542	108	460	624	07/07/2025	14:19	LB136390
	Cobalt	489	476	103	404	548	07/07/2025	14:19	LB136390
	Copper	515	511	101	434	588	07/07/2025	14:19	LB136390
	Iron	102000	99300	103	84400	114500	07/07/2025	14:19	LB136390
	Lead	47.0	49.0	96	37	61	07/07/2025	14:19	LB136390
	Magnesium	250000	248000	101	210000	286000	07/07/2025	14:19	LB136390
	Manganese	490	507	97	430	584	07/07/2025	14:19	LB136390
	Nickel	1000	954	105	810	1100	07/07/2025	14:19	LB136390
	Potassium	-8010			0	0	07/07/2025	14:19	LB136390
	Selenium	19.1	46.0	42	26	66	07/07/2025	14:19	LB136390
	Silver	227	201	113	170	232	07/07/2025	14:19	LB136390

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Metals
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INTERFERENCE CHECK SAMPLE

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

ICS Source: EPA **Instrument ID:** P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSAB	Sodium	-111			0	0	07/07/2025	14:19	LB136390
	Thallium	48.2	108	45	68	148	07/07/2025	14:19	LB136390
	Vanadium	527	491	107	417	565	07/07/2025	14:19	LB136390
	Zinc	1030	952	108	809	1095	07/07/2025	14:19	LB136390
ICSA01	Aluminum	245000	250000	98	216000	294000	07/09/2025	10:31	LB136407
	Antimony	23.3			-50	50	07/09/2025	10:31	LB136407
	Arsenic	5.46			-20	20	07/09/2025	10:31	LB136407
	Barium	8.02	6.0	134	-94	106	07/09/2025	10:31	LB136407
	Beryllium	1.50			-6	6	07/09/2025	10:31	LB136407
	Cadmium	-0.43	1.0	43	-5	7	07/09/2025	10:31	LB136407
	Calcium	242000	240000	101	208000	282000	07/09/2025	10:31	LB136407
	Chromium	52.2	52.0	100	42	62	07/09/2025	10:31	LB136407
	Cobalt	27.0			-30	30	07/09/2025	10:31	LB136407
	Copper	-4.74	2.0	237	-18	22	07/09/2025	10:31	LB136407
	Iron	96800	100000	97	85600	116500	07/09/2025	10:31	LB136407
	Lead	-5.64			-12	12	07/09/2025	10:31	LB136407
	Magnesium	242000	260000	93	216000	294000	07/09/2025	10:31	LB136407
	Manganese	3.37	7.0	48	-13	27	07/09/2025	10:31	LB136407
	Nickel	13.5	2.0	675	-38	42	07/09/2025	10:31	LB136407
	Potassium	10.6			0	0	07/09/2025	10:31	LB136407
	Selenium	-11.2			-20	20	07/09/2025	10:31	LB136407
	Silver	-2.41			-10	10	07/09/2025	10:31	LB136407
	Sodium	119			0	0	07/09/2025	10:31	LB136407
	Thallium	16.7			-40	40	07/09/2025	10:31	LB136407
	Vanadium	1.75			-40	40	07/09/2025	10:31	LB136407
	Zinc	10.9			-40	40	07/09/2025	10:31	LB136407
ICSAB01	Aluminum	245000	250000	98	209000	285000	07/09/2025	10:35	LB136407
	Antimony	621	620	100	525	711	07/09/2025	10:35	LB136407
	Arsenic	98.6	100	99	88.4	120	07/09/2025	10:35	LB136407
	Barium	529	540	98	437	637	07/09/2025	10:35	LB136407
	Beryllium	514	500	103	420	570	07/09/2025	10:35	LB136407
	Cadmium	984	970	101	826	1120	07/09/2025	10:35	LB136407
	Calcium	241000	230000	105	199000	271000	07/09/2025	10:35	LB136407
	Chromium	555	540	103	460	624	07/09/2025	10:35	LB136407
	Cobalt	506	480	105	404	548	07/09/2025	10:35	LB136407
	Copper	479	510	94	434	588	07/09/2025	10:35	LB136407
	Iron	98200	99000	99	84400	114500	07/09/2025	10:35	LB136407
	Lead	38.6	49.0	79	37	61	07/09/2025	10:35	LB136407
	Magnesium	243000	250000	97	210000	286000	07/09/2025	10:35	LB136407
	Manganese	498	510	98	430	584	07/09/2025	10:35	LB136407
	Nickel	966	950	102	810	1100	07/09/2025	10:35	LB136407
	Potassium	9.40			0	0	07/09/2025	10:35	LB136407

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Metals
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INTERFERENCE CHECK SAMPLE

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

ICS Source: EPA **Instrument ID:** P5

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSAB01	Selenium	40.2	46.0	87	26	66	07/09/2025	10:35	LB136407
	Silver	209	200	104	170	232	07/09/2025	10:35	LB136407
	Sodium	100			0	0	07/09/2025	10:35	LB136407
	Thallium	101	110	92	68	148	07/09/2025	10:35	LB136407
	Vanadium	489	490	100	417	565	07/09/2025	10:35	LB136407
	Zinc	1030	950	108	809	1095	07/09/2025	10:35	LB136407
ICSA	Aluminum	256000	250000	102	216000	294000	07/09/2025	10:39	LB136407
	Antimony	56.4			-50	50	07/09/2025	10:39	LB136407
	Arsenic	-38.5			-20	20	07/09/2025	10:39	LB136407
	Barium	3.35	6.0	56	-94	106	07/09/2025	10:39	LB136407
	Beryllium	3.59			-6	6	07/09/2025	10:39	LB136407
	Cadmium	-4.72	1.0	472	-5	7	07/09/2025	10:39	LB136407
	Calcium	253000	240000	105	208000	282000	07/09/2025	10:39	LB136407
	Chromium	30.5	52.0	59	42	62	07/09/2025	10:39	LB136407
	Cobalt	120			-30	30	07/09/2025	10:39	LB136407
	Copper	39.8	2.0	1990	-18	22	07/09/2025	10:39	LB136407
	Iron	108000	100000	108	85600	116500	07/09/2025	10:39	LB136407
	Lead	24.1			-12	12	07/09/2025	10:39	LB136407
	Magnesium	259000	260000	100	216000	294000	07/09/2025	10:39	LB136407
	Manganese	25.6	7.0	366	-13	27	07/09/2025	10:39	LB136407
	Nickel	-4.00	2.0	200	-38	42	07/09/2025	10:39	LB136407
	Potassium	59.1			0	0	07/09/2025	10:39	LB136407
	Selenium	91.3			-20	20	07/09/2025	10:39	LB136407
	Silver	-6.28			-10	10	07/09/2025	10:39	LB136407
	Sodium	-123			0	0	07/09/2025	10:39	LB136407
	Thallium	-21.0			-40	40	07/09/2025	10:39	LB136407
	Vanadium	-159			-40	40	07/09/2025	10:39	LB136407
	Zinc	21.5			-40	40	07/09/2025	10:39	LB136407
ICSAB	Aluminum	239000	250000	96	209000	285000	07/09/2025	10:44	LB136407
	Antimony	588	620	95	525	711	07/09/2025	10:44	LB136407
	Arsenic	95.9	100	96	88.4	120	07/09/2025	10:44	LB136407
	Barium	555	540	103	437	637	07/09/2025	10:44	LB136407
	Beryllium	497	500	99	420	570	07/09/2025	10:44	LB136407
	Cadmium	885	970	91	826	1120	07/09/2025	10:44	LB136407
	Calcium	236000	230000	103	199000	271000	07/09/2025	10:44	LB136407
	Chromium	527	540	98	460	624	07/09/2025	10:44	LB136407
	Cobalt	563	480	117	404	548	07/09/2025	10:44	LB136407
	Copper	517	510	101	434	588	07/09/2025	10:44	LB136407
	Iron	101000	99000	102	84400	114500	07/09/2025	10:44	LB136407
	Lead	15.6	49.0	32	37	61	07/09/2025	10:44	LB136407
	Magnesium	245000	250000	98	210000	286000	07/09/2025	10:44	LB136407
	Manganese	558	510	109	430	584	07/09/2025	10:44	LB136407

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Metals
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INTERFERENCE CHECK SAMPLE

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

ICS Source: EPA **Instrument ID:** P5

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSAB	Nickel	883	950	93	810	1100	07/09/2025	10:44	LB136407
	Potassium	-58.8			0	0	07/09/2025	10:44	LB136407
	Selenium	-15.1	46.0	33	26	66	07/09/2025	10:44	LB136407
	Silver	181	200	90	170	232	07/09/2025	10:44	LB136407
	Sodium	-8.12			0	0	07/09/2025	10:44	LB136407
	Thallium	109	110	99	68	148	07/09/2025	10:44	LB136407
	Vanadium	305	490	62	417	565	07/09/2025	10:44	LB136407
	Zinc	991	950	104	809	1095	07/09/2025	10:44	LB136407
ICSA01	Aluminum	247000	250000	99	216000	294000	07/15/2025	14:10	LB136486
	Antimony	21.6			-50	50	07/15/2025	14:10	LB136486
	Arsenic	-2.03			-20	20	07/15/2025	14:10	LB136486
	Barium	6.35	6.0	106	-94	106	07/15/2025	14:10	LB136486
	Beryllium	1.09			-6	6	07/15/2025	14:10	LB136486
	Cadmium	-1.17	1.0	117	-5	7	07/15/2025	14:10	LB136486
	Calcium	236000	240000	98	208000	282000	07/15/2025	14:10	LB136486
	Chromium	52.5	52.0	101	42	62	07/15/2025	14:10	LB136486
	Cobalt	3.22			-30	30	07/15/2025	14:10	LB136486
	Copper	-6.71	2.0	336	-18	22	07/15/2025	14:10	LB136486
	Iron	97400	100000	97	85600	116500	07/15/2025	14:10	LB136486
	Lead	-0.60			-12	12	07/15/2025	14:10	LB136486
	Magnesium	242000	260000	93	216000	294000	07/15/2025	14:10	LB136486
	Manganese	6.23	7.0	89	-13	27	07/15/2025	14:10	LB136486
	Nickel	3.30	2.0	165	-38	42	07/15/2025	14:10	LB136486
	Potassium	5.78			0	0	07/15/2025	14:10	LB136486
	Selenium	-7.22			-20	20	07/15/2025	14:10	LB136486
	Silver	-0.55			-10	10	07/15/2025	14:10	LB136486
	Sodium	113			0	0	07/15/2025	14:10	LB136486
	Thallium	22.2			-40	40	07/15/2025	14:10	LB136486
	Vanadium	3.62			-40	40	07/15/2025	14:10	LB136486
	Zinc	10.5			-40	40	07/15/2025	14:10	LB136486
ICSAB01	Aluminum	245000	250000	98	209000	285000	07/15/2025	14:21	LB136486
	Antimony	611	620	98	525	711	07/15/2025	14:21	LB136486
	Arsenic	92.3	100	92	88.4	120	07/15/2025	14:21	LB136486
	Barium	490	540	91	437	637	07/15/2025	14:21	LB136486
	Beryllium	488	500	98	420	570	07/15/2025	14:21	LB136486
	Cadmium	959	970	99	826	1120	07/15/2025	14:21	LB136486
	Calcium	234000	230000	102	199000	271000	07/15/2025	14:21	LB136486
	Chromium	529	540	98	460	624	07/15/2025	14:21	LB136486
	Cobalt	478	480	100	404	548	07/15/2025	14:21	LB136486
	Copper	462	510	91	434	588	07/15/2025	14:21	LB136486
	Iron	95400	99000	96	84400	114500	07/15/2025	14:21	LB136486
	Lead	48.6	49.0	99	37	61	07/15/2025	14:21	LB136486

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Metals
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INTERFERENCE CHECK SAMPLE

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

ICS Source: EPA **Instrument ID:** P5

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSAB01	Magnesium	240000	250000	96	210000	286000	07/15/2025	14:21	LB136486
	Manganese	477	510	94	430	584	07/15/2025	14:21	LB136486
	Nickel	952	950	100	810	1100	07/15/2025	14:21	LB136486
	Potassium	-2.22			0	0	07/15/2025	14:21	LB136486
	Selenium	38.5	46.0	84	26	66	07/15/2025	14:21	LB136486
	Silver	208	200	104	170	232	07/15/2025	14:21	LB136486
	Sodium	99.8			0	0	07/15/2025	14:21	LB136486
	Thallium	101	110	92	68	148	07/15/2025	14:21	LB136486
	Vanadium	467	490	95	417	565	07/15/2025	14:21	LB136486
	Zinc	977	950	103	809	1095	07/15/2025	14:21	LB136486
ICSA	Aluminum	246000	250000	98	216000	294000	07/15/2025	14:26	LB136486
	Antimony	38.5			-50	50	07/15/2025	14:26	LB136486
	Arsenic	-116			-20	20	07/15/2025	14:26	LB136486
	Barium	2.83	6.0	47	-94	106	07/15/2025	14:26	LB136486
	Beryllium	-0.20			-6	6	07/15/2025	14:26	LB136486
	Cadmium	-2.62	1.0	262	-5	7	07/15/2025	14:26	LB136486
	Calcium	238000	240000	99	208000	282000	07/15/2025	14:26	LB136486
	Chromium	46.1	52.0	89	42	62	07/15/2025	14:26	LB136486
	Cobalt	113			-30	30	07/15/2025	14:26	LB136486
	Copper	2.79	2.0	140	-18	22	07/15/2025	14:26	LB136486
	Iron	107000	100000	107	85600	116500	07/15/2025	14:26	LB136486
	Lead	20.6			-12	12	07/15/2025	14:26	LB136486
	Magnesium	247000	260000	95	216000	294000	07/15/2025	14:26	LB136486
	Manganese	59.8	7.0	854	-13	27	07/15/2025	14:26	LB136486
	Nickel	-0.74	2.0	37	-38	42	07/15/2025	14:26	LB136486
	Potassium	-695			0	0	07/15/2025	14:26	LB136486
	Selenium	21.5			-20	20	07/15/2025	14:26	LB136486
	Silver	-13.2			-10	10	07/15/2025	14:26	LB136486
	Sodium	-321			0	0	07/15/2025	14:26	LB136486
	Thallium	98.2			-40	40	07/15/2025	14:26	LB136486
	Vanadium	92.6			-40	40	07/15/2025	14:26	LB136486
	Zinc	8.05			-40	40	07/15/2025	14:26	LB136486
ICSAB	Aluminum	258000	250000	103	209000	285000	07/15/2025	14:30	LB136486
	Antimony	670	620	108	525	711	07/15/2025	14:30	LB136486
	Arsenic	-16.0	100	16	88.4	120	07/15/2025	14:30	LB136486
	Barium	558	540	103	437	637	07/15/2025	14:30	LB136486
	Beryllium	554	500	111	420	570	07/15/2025	14:30	LB136486
	Cadmium	989	970	102	826	1120	07/15/2025	14:30	LB136486
	Calcium	249000	230000	108	199000	271000	07/15/2025	14:30	LB136486
	Chromium	617	540	114	460	624	07/15/2025	14:30	LB136486
	Cobalt	627	480	131	404	548	07/15/2025	14:30	LB136486
	Copper	581	510	114	434	588	07/15/2025	14:30	LB136486

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Metals
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INTERFERENCE CHECK SAMPLE

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

ICS Source: EPA **Instrument ID:** P5

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSAB	Iron	112000	99000	113	84400	114500	07/15/2025	14:30	LB136486
	Lead	72.1	49.0	147	37	61	07/15/2025	14:30	LB136486
	Magnesium	259000	250000	104	210000	286000	07/15/2025	14:30	LB136486
	Manganese	622	510	122	430	584	07/15/2025	14:30	LB136486
	Nickel	1010	950	106	810	1100	07/15/2025	14:30	LB136486
	Potassium	-673			0	0	07/15/2025	14:30	LB136486
	Selenium	-40.1	46.0	87	26	66	07/15/2025	14:30	LB136486
	Silver	79.4	200	40	170	232	07/15/2025	14:30	LB136486
	Sodium	-616			0	0	07/15/2025	14:30	LB136486
	Thallium	175	110	159	68	148	07/15/2025	14:30	LB136486
	Vanadium	414	490	84	417	565	07/15/2025	14:30	LB136486
	Zinc	1070	950	113	809	1095	07/15/2025	14:30	LB136486

METAL QC DATA

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MATRIX SPIKE SUMMARY

client: CDM Smith **level:** low **sdg no.:** Q2484

contract: CAMP02 **lab code:** ACE

matrix: Solid **sample id:** Q2484-06 **client id:** TP-104MS

Percent Solids for Sample: 87.3 **Spiked ID:** Q2484-06MS **Percent Solids for Spike Sample:** 87.3

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	11500		9230		95.5	2372		P
Antimony	mg/Kg	75 - 125	9.41		1.16	J	38.2	22	N	P
Arsenic	mg/Kg	75 - 125	43.0		7.48		38.2	93		P
Barium	mg/Kg	75 - 125	33.9		24.3		9.5	101		P
Beryllium	mg/Kg	75 - 125	8.26		0.73		9.5	79		P
Cadmium	mg/Kg	75 - 125	8.89		0.29	U	9.5	93		P
Calcium	mg/Kg	75 - 125	569		353		47.7	452		P
Chromium	mg/Kg	75 - 125	31.4		15.8		19.1	81		P
Cobalt	mg/Kg	75 - 125	8.21		1.43	U	9.5	86		P
Copper	mg/Kg	75 - 125	18.5		4.84		14.3	95		P
Iron	mg/Kg	75 - 125	20000		19400		140	365		P
Lead	mg/Kg	75 - 125	57.7		13.1		47.7	93		P
Magnesium	mg/Kg	75 - 125	858		717		95.5	148		P
Manganese	mg/Kg	75 - 125	73.7		73.8		9.5	-1		P
Mercury	mg/Kg	80 - 120	0.36		0.039		0.29	110		CV
Nickel	mg/Kg	75 - 125	31.3		7.27		23.9	101		P
Potassium	mg/Kg	75 - 125	857		420		480	91		P
Selenium	mg/Kg	75 - 125	70.7		4.47		95.5	69	N	P
Silver	mg/Kg	75 - 125	2.34		0.48	U	3.6	65	N	P
Sodium	mg/Kg	75 - 125	351		253		140	69	N	P
Thallium	mg/Kg	75 - 125	86.4		1.91	U	95.5	90		P
Vanadium	mg/Kg	75 - 125	41.6		30.8		14.3	76		P
Zinc	mg/Kg	75 - 125	24.4		16.3		9.5	85		P

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metals
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MATRIX SPIKE DUPLICATE SUMMARY

client: CDM Smith **level:** low **sdg no.:** Q2484

contract: CAMP02 **lab code:** ACE

matrix: Solid **sample id:** Q2484-06 **client id:** TP-104MSD

Percent Solids for Sample: 87.3 **Spiked ID:** Q2484-06MSD **Percent Solids for Spike Sample:** 87.3

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	11800		9230		100	2492		P
Antimony	mg/Kg	75 - 125	10.8		1.16	J	41.1	23	N	P
Arsenic	mg/Kg	75 - 125	46.1		7.48		41.1	94		P
Barium	mg/Kg	75 - 125	32.4		24.3		10.3	78		P
Beryllium	mg/Kg	75 - 125	8.98		0.73		10.3	80		P
Cadmium	mg/Kg	75 - 125	9.81		0.29	U	10.3	96		P
Calcium	mg/Kg	75 - 125	445		353		51.4	179		P
Chromium	mg/Kg	75 - 125	32.6		15.8		20.5	81		P
Cobalt	mg/Kg	75 - 125	8.78		1.43	U	10.3	86		P
Copper	mg/Kg	75 - 125	19.0		4.84		15.4	92		P
Iron	mg/Kg	75 - 125	19900		19400		150	285		P
Lead	mg/Kg	75 - 125	60.7		13.1		51.4	93		P
Magnesium	mg/Kg	75 - 125	869		717		100	148		P
Manganese	mg/Kg	75 - 125	71.4		73.8		10.3	-23		P
Mercury	mg/Kg	80 - 120	0.38		0.039		0.31	111		CV
Nickel	mg/Kg	75 - 125	33.2		7.27		25.7	101		P
Potassium	mg/Kg	75 - 125	1050		420		510	122		P
Selenium	mg/Kg	75 - 125	79.1		4.47		100	73	N	P
Silver	mg/Kg	75 - 125	2.61		0.48	U	3.9	68	N	P
Sodium	mg/Kg	75 - 125	364		253		150	72	N	P
Thallium	mg/Kg	75 - 125	94.9		1.91	U	100	92		P
Vanadium	mg/Kg	75 - 125	43.5		30.8		15.4	83		P
Zinc	mg/Kg	75 - 125	24.6		16.3		10.3	81		P

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Metals
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POST DIGEST SPIKE SUMMARY

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

Matrix: Solid **Level:** LOW **Client ID:** TP-104A

Sample ID: Q2484-06 **Spiked ID:** Q2484-06A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Antimony	mg/Kg	75 - 125	30.9		1.16	J	38.2	78		P
Selenium	mg/Kg	75 - 125	76.7		4.47		95.5	76		P
Silver	mg/Kg	75 - 125	2.57		0.48	U	3.60	71	N	P
Sodium	mg/Kg	75 - 125	365		253		140	80		P

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: CDM Smith **Level:** LOW **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

Matrix: Solid **Sample ID:** Q2484-06 **Client ID:** TP-104DUP

Percent Solids for Sample: 87.3 **Duplicate ID** Q2484-06DUP **Percent Solids for Spike Sample:** 87.3

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	mg/Kg	20	9230		9580		4		P
Antimony	mg/Kg	20	1.16	J	1.19	J	3		P
Arsenic	mg/Kg	20	7.48		7.54		1		P
Barium	mg/Kg	20	24.3		25.4		4		P
Beryllium	mg/Kg	20	0.73		0.76		4		P
Cadmium	mg/Kg	20	0.29	U	0.30	U			P
Calcium	mg/Kg	20	353		363		3		P
Chromium	mg/Kg	20	15.8		16.2		2		P
Cobalt	mg/Kg	20	1.43	U	1.47	U			P
Copper	mg/Kg	20	4.84		5.16		6		P
Iron	mg/Kg	20	19400		20400		5		P
Lead	mg/Kg	20	13.1		13.1		0		P
Magnesium	mg/Kg	20	717		762		6		P
Manganese	mg/Kg	20	73.8		72.4		2		P
Mercury	mg/Kg	20	0.039		0.035		11		CV
Nickel	mg/Kg	20	7.27		7.55		4		P
Potassium	mg/Kg	20	420		431		3		P
Selenium	mg/Kg	20	4.47		4.70		5		P
Silver	mg/Kg	20	0.48	U	0.49	U			P
Sodium	mg/Kg	20	253		264		4		P
Thallium	mg/Kg	20	1.91	U	1.97	U			P
Vanadium	mg/Kg	20	30.8		31.6		3		P
Zinc	mg/Kg	20	16.3		17.1		5		P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: CDM Smith **Level:** LOW **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

Matrix: Solid **Sample ID:** Q2484-06MS **Client ID:** TP-104MSD

Percent Solids for Sample: 87.3 **Duplicate ID** Q2484-06MSD **Percent Solids for Spike Sample:** 87.3

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	mg/Kg	20	11500		11800		3		P
Antimony	mg/Kg	20	9.41		10.8		13		P
Arsenic	mg/Kg	20	43.0		46.1		7		P
Barium	mg/Kg	20	33.9		32.4		5		P
Beryllium	mg/Kg	20	8.26		8.98		8		P
Cadmium	mg/Kg	20	8.89		9.81		10		P
Calcium	mg/Kg	20	569		445		24	*	P
Chromium	mg/Kg	20	31.4		32.6		4		P
Cobalt	mg/Kg	20	8.21		8.78		7		P
Copper	mg/Kg	20	18.5		19.0		3		P
Iron	mg/Kg	20	20000		19900		1		P
Lead	mg/Kg	20	57.7		60.7		5		P
Magnesium	mg/Kg	20	858		869		1		P
Manganese	mg/Kg	20	73.7		71.4		3		P
Mercury	mg/Kg	20	0.36		0.38		7		CV
Nickel	mg/Kg	20	31.3		33.2		6		P
Potassium	mg/Kg	20	857		1050		20		P
Selenium	mg/Kg	20	70.7		79.1		11		P
Silver	mg/Kg	20	2.34		2.61		11		P
Sodium	mg/Kg	20	351		364		4		P
Thallium	mg/Kg	20	86.4		94.9		9		P
Vanadium	mg/Kg	20	41.6		43.5		4		P
Zinc	mg/Kg	20	24.4		24.6		1		P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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LABORATORY CONTROL SAMPLE SUMMARY

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB168713BS							
Aluminum	mg/Kg	100	96.5		96	80 - 120	P
Antimony	mg/Kg	40.0	39.2		98	80 - 120	P
Arsenic	mg/Kg	40.0	38.3		96	80 - 120	P
Barium	mg/Kg	10.0	10.2		102	80 - 120	P
Beryllium	mg/Kg	10.0	9.58		96	80 - 120	P
Cadmium	mg/Kg	10.0	9.63		96	80 - 120	P
Calcium	mg/Kg	50.0	50.6	J	101	80 - 120	P
Chromium	mg/Kg	20.0	20.9		104	80 - 120	P
Cobalt	mg/Kg	10.0	9.78		98	80 - 120	P
Copper	mg/Kg	15.0	15.1		101	80 - 120	P
Iron	mg/Kg	150	151		101	80 - 120	P
Lead	mg/Kg	50.0	47.3		95	80 - 120	P
Magnesium	mg/Kg	100	96.0	J	96	80 - 120	P
Manganese	mg/Kg	10.0	9.86		99	80 - 120	P
Nickel	mg/Kg	25.0	25.2		101	80 - 120	P
Potassium	mg/Kg	500	484		97	80 - 120	P
Selenium	mg/Kg	100	94.9		95	80 - 120	P
Silver	mg/Kg	3.8	3.56		94	80 - 120	P
Sodium	mg/Kg	150	154		103	80 - 120	P
Thallium	mg/Kg	100	81.4		81	80 - 120	P
Vanadium	mg/Kg	15.0	14.2		95	80 - 120	P
Zinc	mg/Kg	10.0	10.3		103	80 - 120	P

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Metals

LABORATORY CONTROL SAMPLE SUMMARY

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB168719BS							
Mercury	mg/Kg	0.25	0.27		107	80 - 120	CV

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ICP SERIAL DILUTIONS

SAMPLE NO.

TP-104L

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **Lb No.:** lb136486 **Lab Sample ID :** Q2484-06L **SDG No.:** Q2484

Matrix (soil/water): Solid **Level (low/med):** LOW

Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	9230		11000		19		P
Antimony	1.16	J	11.9	U	100.0		P
Arsenic	7.48		8.85		18		P
Barium	24.3		28.9		19		P
Beryllium	0.73		0.86	J	18		P
Cadmium	0.29	U	1.43	U			P
Calcium	353		428	J	21		P
Chromium	15.8		17.9		13		P
Cobalt	1.43	U	7.16	U			P
Copper	4.84		6.36		31		P
Iron	19400		25900		33		P
Lead	13.1		14.1		8		P
Magnesium	717		890		24		P
Manganese	73.8		89.4		21		P
Mercury	0.039		0.076	U	100.0		CV
Nickel	7.27		6.99	J	4		P
Potassium	420		380	J	10		P
Selenium	4.47		6.71		50		P
Silver	0.48	U	2.39	U			P
Sodium	253		292	J	15		P
Thallium	1.91	U	9.55	U			P
Vanadium	30.8		35.7		16		P
Zinc	16.3		19.3		18		P

METAL PREPARATION & INSTRUMENT DATA

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Metals
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ICP INTERELEMENT CORRECTION FACTORS

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Al	Ca	Fe	Mg	Ag
Aluminum	396.100	0.0000000	-0.0002060	0.0000000	0.0000000	0.0000000
Antimony	206.833	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	0.0000000	0.0000000	-0.0000440	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000930	0.0000000	0.0000000
Calcium	373.690	0.0000000	0.0000000	-0.0075970	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0000000	0.0007850	0.0000000	0.0000000
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	-0.0000920	0.0000000	0.0000380	0.0000000	0.0000000
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	-0.0001440	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	-0.0001490	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.402	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0001050	0.0000000	0.0000000

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ICP INTERELEMENT CORRECTION FACTORS

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: As	Ba	Be	Cd	Co
Aluminum	396.100	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.833	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0002870
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0000000	0.0000000	0.0000000	0.0009530
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	-0.0039600
Lead	220.353	0.0000000	0.0003170	0.0000000	0.0000000	0.0000000
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0000000	-0.0003570
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0000000	0.0054900
Vanadium	292.402	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

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ICP INTERELEMENT CORRECTION FACTORS

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Cr	Cu	K	Mn	Mo
Aluminum	396.100	0.0000000	0.0000000	0.0000590	0.0000000	0.0396900
Antimony	206.833	0.0122000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	-0.0029000	0.0000000	0.0000000	0.0000000	0.0004900
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	-0.0000710	-0.0003400
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000070	0.0002200	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	-0.0007860
Copper	224.700	0.0000000	0.0000000	0.0000000	0.0006510	0.0020500
Iron	240.488	0.0000000	0.0000000	0.0000730	0.0000000	-0.0015250
Lead	220.353	0.0000000	0.0000000	0.0000000	0.0001400	-0.0008600
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0007460	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000120
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0017400	-0.0100400
Vanadium	292.402	-0.0025100	0.0000000	0.0000000	0.0000000	-0.0072000
Zinc	213.800	0.0000000	0.0009010	0.0000000	0.0000000	0.0000000

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ICP INTERELEMENT CORRECTION FACTORS

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Na	Ni	Pb	Sb	Se
Aluminum	396.100	0.0000000	0.0000000	0.0012800	0.0000000	0.0000000
Antimony	206.833	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	-0.0047000	0.0036100	0.0000000	0.0000000
Iron	240.488	0.0000000	-0.0017000	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	0.0006580	0.0000000	0.0000000	0.0001290
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0003330	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.402	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0067600	0.0000000	0.0000000	0.0000000

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ICP INTERELEMENT CORRECTION FACTORS

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Sn	Ti	Tl	V	Zn
Aluminum	396.100	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.833	-0.0035600	-0.0007970	0.0000000	-0.0018900	0.0000000
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000630	0.0001280	0.0000000	0.0000000
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0001110	0.0000000
Cobalt	228.616	0.0000000	0.0018800	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0003840	0.0000000	0.0000000	0.0000000
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	-0.0003610	0.0000000	0.0000000	0.0000000
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.068	0.0000000	-0.0007420	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	-0.0039700	0.0000000	-0.0115600	0.0000000
Vanadium	292.402	0.0000000	0.0005320	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

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LINEAR RANGES

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE **Case No.:** Q2484 **SAS No.:** Q2484

Instrument ID: P4 **Date:** 01/04/2018

Analyte	Integration Time (sec)	LDR ug/L
Aluminum	10	1980000
Antimony	10	90000
Arsenic	10	81000
Barium	10	90000
Beryllium	10	9000
Cadmium	10	9000
Calcium	10	2520000
Chromium	10	90000
Cobalt	10	81000
Copper	10	333000
Iron	10	900000
Lead	10	225000
Magnesium	10	3600000
Manganese	10	58500
Nickel	10	90000
Potassium	10	1800000
Selenium	10	90000
Silver	10	9000
Sodium	10	2520000
Thallium	10	90000
Vanadium	10	90000
Zinc	10	45000

METAL PREPARATION & ANALYICAL SUMMARY

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SAMPLE PREPARATION SUMMARY

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE **Method:**

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB168713**						
PB168713BL	PB168713BL	MB	SOLID	07/03/2025	2.00	100.0	100.00
PB168713BS	PB168713BS	LCS	SOLID	07/03/2025	2.00	100.0	100.00
Q2484-01	TP-58	SAM	SOLID	07/03/2025	2.36	100.0	86.20
Q2484-02	TP-57	SAM	SOLID	07/03/2025	2.27	100.0	86.00
Q2484-03	TP-64	SAM	SOLID	07/03/2025	2.32	100.0	88.40
Q2484-04	TP-107	SAM	SOLID	07/03/2025	2.27	100.0	83.80
Q2484-05	TP-106	SAM	SOLID	07/03/2025	2.46	100.0	87.90
Q2484-06	TP-104	SAM	SOLID	07/03/2025	2.40	100.0	87.30
Q2484-06DUP	TP-104DUP	DUP	SOLID	07/03/2025	2.33	100.0	87.30
Q2484-06MS	TP-104MS	MS	SOLID	07/03/2025	2.40	100.0	87.30
Q2484-06MSD	TP-104MSD	MSD	SOLID	07/03/2025	2.23	100.0	87.30

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SAMPLE PREPARATION SUMMARY

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE **Method:**

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB168719**						
PB168719BL	PB168719BL	MB	SOLID	07/02/2025	0.52	35.0	100.00
PB168719BS	PB168719BS	LCS	SOLID	07/02/2025	0.55	35.0	100.00
Q2484-01	TP-58	SAM	SOLID	07/02/2025	0.56	35.0	86.20
Q2484-02	TP-57	SAM	SOLID	07/02/2025	0.53	35.0	86.00
Q2484-03	TP-64	SAM	SOLID	07/02/2025	0.51	35.0	88.40
Q2484-04	TP-107	SAM	SOLID	07/02/2025	0.56	35.0	83.80
Q2484-05	TP-106	SAM	SOLID	07/02/2025	0.50	35.0	87.90
Q2484-06	TP-104	SAM	SOLID	07/02/2025	0.53	35.0	87.30
Q2484-06DUP	TP-104DUP	DUP	SOLID	07/02/2025	0.53	35.0	87.30
Q2484-06MS	TP-104MS	MS	SOLID	07/02/2025	0.55	35.0	87.30
Q2484-06MSD	TP-104MSD	MSD	SOLID	07/02/2025	0.52	35.0	87.30

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ANALYSIS RUN LOG

Client: CDM Smith **Contract:** CAMP02

Lab code: ACE **Sdg no.:** Q2484

Instrument id number: **Method:** **Run number:** LB136369

Start date: 07/03/2025 **End date:** 07/03/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1055	HG
S0.2	S0.2	1	1058	HG
S2.5	S2.5	1	1100	HG
S5	S5	1	1102	HG
S7.5	S7.5	1	1104	HG
S10	S10	1	1110	HG
ICV16	ICV16	1	1113	HG
ICB16	ICB16	1	1117	HG
CCV51	CCV51	1	1120	HG
CCB51	CCB51	1	1122	HG
CRA	CRA	1	1124	HG
PB168719BS	PB168719BS	1	1134	HG
CCV52	CCV52	1	1148	HG
CCB52	CCB52	1	1150	HG
Q2484-01	TP-58	1	1155	HG
Q2484-02	TP-57	1	1157	HG
Q2484-03	TP-64	1	1159	HG
Q2484-04	TP-107	1	1201	HG
Q2484-05	TP-106	1	1204	HG
Q2484-06	TP-104	1	1206	HG
Q2484-06DUP	TP-104DUP	1	1208	HG
Q2484-06MS	TP-104MS	1	1211	HG
Q2484-06MSD	TP-104MSD	1	1213	HG
CCV53	CCV53	1	1215	HG
CCB53	CCB53	1	1218	HG
PB168719BL	PB168719BL	1	1220	HG
Q2484-06L	TP-104L	5	1226	HG
CCV54	CCV54	1	1230	HG
CCB54	CCB54	1	1233	HG

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metals
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ANALYSIS RUN LOG

Client: CDM Smith **Contract:** CAMP02

Lab code: ACE **Sdg no.:** Q2484

Instrument id number: **Method:** **Run number:** LB136390

Start date: 07/07/2025 **End date:** 07/08/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1225	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S1	S1	1	1230	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S2	S2	1	1234	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S3	S3	1	1238	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S4	S4	1	1242	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S5	S5	1	1247	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICV01	ICV01	1	1322	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
LLICV01	LLICV01	1	1341	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICB01	ICB01	1	1345	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CRI01	CRI01	1	1349	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSA01	ICSA01	1	1353	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSAB01	ICSAB01	1	1410	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSA	ICSA	20	1415	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSAB	ICSAB	20	1419	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV01	CCV01	1	1438	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB01	CCB01	1	1442	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV02	CCV02	1	1530	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB02	CCB02	1	1534	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV03	CCV03	1	1633	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB03	CCB03	1	1637	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB168713BL	PB168713BL	1	1645	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB168713BS	PB168713BS	1	1701	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2484-01	TP-58	1	1726	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV04	CCV04	1	1731	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB04	CCB04	1	1735	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV05	CCV05	1	0143	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB05	CCB05	1	0147	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV06	CCV06	1	0249	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB06	CCB06	1	0253	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV07	CCV07	1	0340	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB07	CCB07	1	0344	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn

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metals
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ANALYSIS RUN LOG

Client: CDM Smith **Contract:** CAMP02

Lab code: ACE **Sdg no.:** Q2484

Instrument id number: **Method:** **Run number:** LB136407

Start date: 07/09/2025 **End date:** 07/09/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	0939	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S1	S1	1	0944	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S2	S2	1	0948	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S3	S3	1	0952	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S4	S4	1	0957	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S5	S5	1	1001	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICV01	ICV01	1	1005	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
LLICV01	LLICV01	1	1017	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICB01	ICB01	1	1022	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CRI01	CRI01	1	1026	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSA01	ICSA01	1	1031	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSAB01	ICSAB01	1	1035	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSA	ICSA	20	1039	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSAB	ICSAB	20	1044	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV01	CCV01	1	1048	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB01	CCB01	1	1057	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV02	CCV02	1	1147	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB02	CCB02	1	1156	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV03	CCV03	1	1254	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB03	CCB03	1	1258	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV04	CCV04	1	1405	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB04	CCB04	1	1428	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV05	CCV05	1	1527	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB05	CCB05	1	1533	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV06	CCV06	1	1639	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB06	CCB06	1	1643	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2484-02	TP-57	1	1719	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2484-03	TP-64	1	1723	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2484-04	TP-107	1	1728	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2484-05	TP-106	1	1732	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV07	CCV07	1	1750	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB07	CCB07	1	1754	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV08	CCV08	1	1854	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB08	CCB08	1	1858	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV09	CCV09	1	1948	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB09	CCB09	1	1952	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV10	CCV10	1	2041	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB10	CCB10	1	2045	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV11	CCV11	1	2112	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB11	CCB11	1	2116	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn

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metals
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ANALYSIS RUN LOG

Client: CDM Smith **Contract:** CAMP02

Lab code: ACE **Sdg no.:** Q2484

Instrument id number: **Method:** **Run number:** LB136486

Start date: 07/15/2025 **End date:** 07/15/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1259	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S1	S1	1	1304	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S2	S2	1	1308	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S3	S3	1	1313	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S4	S4	1	1317	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S5	S5	1	1322	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICV01	ICV01	1	1339	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
LLICV1	LLICV1	1	1350	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICB01	ICB01	1	1401	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CRI01	CRI01	1	1405	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSA01	ICSA01	1	1410	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSAB01	ICSAB01	1	1421	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSA	ICSA	20	1426	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSAB	ICSAB	20	1430	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV01	CCV01	1	1434	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB01	CCB01	1	1439	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2484-06	TP-104	1	1444	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2484-06DUP	TP-104DUP	1	1448	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2484-06MS	TP-104MS	1	1458	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2484-06MSD	TP-104MSD	1	1502	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2484-06A	TP-104A	1	1506	Ag,Na,Sb,Se
CCV02	CCV02	1	1511	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB02	CCB02	1	1515	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn

SHIPPING DOCUMENTS

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

ALLIANCE PROJECT NO. Q2484
QUOTE NO.
COC Number 2047525

13
13.1

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: CDM SMITH
ADDRESS: 110 FIELDCREST AVE #8 6TH FLOOR
CITY EDISON STATE: NJ ZIP: 08837
ATTENTION: MARCIE ENCINAS
PHONE: 7325904679 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: SOUTH RIVER WM REPLACEMENT
PROJECT NO.: 302781 LOCATION: SOUTH RIVER, NJ
PROJECT MANAGER: MARCIE ENCINAS
e-mail: ENCINASMA@CDMSMITH.COM
PHONE: 7325904679 FAX:

CLIENT BILLING INFORMATION

BILL TO: CDM SMITH PO#:
ADDRESS: 110 FIELDCREST AVE #8 6TH FLOOR
CITY EDISON STATE: NJ ZIP: 08837
ATTENTION: MARCIE ENCINAS PHONE: 7325904679

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): _____ DAYS*
EDD: _____ DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

DATA DELIVERABLE INFORMATION

- ☐ Level 1 (Results Only)
- ☐ Level 4 (QC + Full Raw Data)
- ☒ Level 2 (Results + QC)
- ☐ NJ Reduced
- ☐ US EPA CLP
- ☐ Level 3 (Results + QC + Raw Data)
- ☐ NYS ASP A
- ☐ NYS ASP B
- ☐ Other _____
- ☐ EDD FORMAT _____

ANALYSIS

1: TCL VOC
2: TCL SVOC
3: TAL METALS
4: PCBs
5: PESTICIDES
6: HERBICIDES
7: DRO/GRO
8:
9:

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1	2	3	4	5	6	7	8	9	COMMENTS
1.	TP-58	S		X	7/1/25	0800		X	X	X	X	X	X	X			E
2.	TP-57	S		X	7/1/25	0840	6	X	X	X	X	X	X	X			E
3.	TP-64	S		X	7/1/25	0930	6	X	X	X	X	X	X	X			E
4.	TP-107	S		X	7/1/25	1040	6	X	X	X	X	X	X	X			E
5.	TP-106	S		X	7/1/25	1145	6	X	X	X	X	X	X	X			E
6.	TP-104	S		X	7/1/25	1240	6	X	X	X	X	X	X	X			E
7.																	
8.																	
9.																	
10.																	

PRESERVATIVES: ← Specify Preservatives
A-HCl D-NaOH
B-HN03 E-ICE
C-H2SO4 F-OTHER

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1.	7/1/25 1510	1.
2.		2.
3.	7.1.25 1654	3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☒ COOLER TEMP 3.6 °C
Comments:

Page ____ of
CLIENT: ☐ Hand Delivered ☐ Other
Shipment Complete ☐ YES ☐ NO

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Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q2484 CAMP02
Client Name : CDM Smith
Client Contact : Marcie Ann Encinas
Invoice Name : CDM Smith
Invoice Contact : Marcie Ann Encinas

Order Date : 7/2/2025 9:23:00 AM
Project Name : South River WM Replacem
Receive DateTime : 7/1/2025 4:54:00 PM
Purchase Order :

Project Mgr :
Report Type : Level 2 adl
EDD Type : EXCEL NOCLEANUP
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q2484-01	TP-58	Solid	07/01/2025	08:00					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q2484-02	TP-57	Solid	07/01/2025	08:40					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q2484-03	TP-64	Solid	07/01/2025	09:30					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q2484-04	TP-107	Solid	07/01/2025	10:40					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q2484-05	TP-~~1086~~ 106 adl	Solid	07/01/2025	11:45					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q2484-06	TP-104	Solid	07/01/2025	12:40					
					VOC-TCLVOA-10		8260D		10 Bus. Days