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ANALYTICAL RESULTS SUMMARY

METALS
GC SEMI-VOLATILES
SEMI-VOLATILE ORGANICS
VOLATILE ORGANICS

PROJECT NAME : MACKENNA PARCELS

LABELLA ASSOCIATES P.C.

300 State Street

Suite 201

Rochester, NY - 14614

Phone No: 585-454-6110

ORDER ID : O3645

ATTENTION : Andrew T. Benkleman

Laboratory Certification ID # 20012

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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
FORM S-I

SAMPLE IDENTIFICATION AND ANALYTICAL REQUIREMENT SUMMARY

NYSDEC Sample ID/Code	Laboratory Sampl ID/Code	VOA GC/MS (Method #)	BNA GC/MS (Method #)	VOA GC (Method #)	Pest PCBs (Method #)	Metals (Method #)	Other (Method #)
SB-02-(3-5)	O3645-01	8260D	8270E		8082A	6010D, 7471B	Chemtech -SOP
SB-04-(1-5)	O3645-02	8260D	8270E		8082A	6010D, 7471B	Chemtech -SOP
SB-07-(1-3)	O3645-03	8260D	8270E		8082A	6010D, 7471B	Chemtech -SOP
SB-08-(0.5-2.0)	O3645-04	8260D	8270E		8082A	6010D, 7471B	Chemtech -SOP
SB-09-(2.0-4.0)	O3645-05	8260D	8270E		8082A	6010D, 7471B	Chemtech -SOP
SB-10-(0.5-2.0)	O3645-06	8260D	8270E		8082A	6010D, 7471B	Chemtech -SOP
DUP	O3645-07	8260D	8270E		8082A	6010D, 7471B	Chemtech -SOP
RINSATE-BLANK	O3645-08	8260D, 8260-Low	8270E		8082A	6010D, 7471B, 7470A	Chemtech -SOP

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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORM S-IIa

SAMPLE PREPARATION AND ANALYSIS SUMMARY SEMIVOLATILE (BNA) ANALYSES

Laboratory Sample ID	Matrix	Date Collected	Date Rec'd at Lab	Date Extracted	Date Analyzed
O3645-01	SOIL	07/12/23	07/17/23	07/18/23	07/28/23
O3645-02	SOIL	07/12/23	07/17/23	07/18/23	08/01/23
O3645-03	SOIL	07/13/23	07/17/23	07/18/23	07/29/23
O3645-04	SOIL	07/13/23	07/17/23	07/18/23	08/01/23
O3645-05	SOIL	07/13/23	07/17/23	07/18/23	08/02/23
O3645-06	SOIL	07/13/23	07/17/23	07/18/23	08/02/23
O3645-07	SOIL	07/12/23	07/17/23	07/18/23	08/02/23
O3645-08	Water	07/12/23	07/17/23	07/17/23	07/28/23

*** Details For Test :** SVOCMS Group1

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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORM S-IIb

SAMPLE PREPARATION AND ANALYSIS SUMMARY VOLATILE (VOA) ANALYSES

Laboratory Sample ID	Matrix	Date Collected	Date Rec'd at Lab	Date Extracted	Date Analyzed
O3645-01	SOIL	07/12/23	07/17/23		07/17/23
O3645-02	SOIL	07/12/23	07/17/23		07/17/23
O3645-03	SOIL	07/13/23	07/17/23		07/17/23
O3645-04	SOIL	07/13/23	07/17/23		07/17/23
O3645-05	SOIL	07/13/23	07/17/23		07/17/23
O3645-06	SOIL	07/13/23	07/17/23		07/17/23
O3645-07	SOIL	07/12/23	07/17/23		07/18/23
O3645-08	Water	07/12/23	07/17/23		07/18/23

*** Details For Test :** VOCMS Group1

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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORM S-IIc

SAMPLE PREPARATION AND ANALYSIS SUMMARY PESTICIDE/PCB ANALYSES

Laboratory Sample ID	Matrix	Date Collected	Date Rec'd at Lab	Date Extracted	Date Analyzed
O3645-01	SOIL	07/12/23	07/17/23	07/18/23	07/18/23
O3645-02	SOIL	07/12/23	07/17/23	07/18/23	07/18/23
O3645-03	SOIL	07/13/23	07/17/23	07/18/23	07/18/23
O3645-04	SOIL	07/13/23	07/17/23	07/18/23	07/18/23
O3645-05	SOIL	07/13/23	07/17/23	07/18/23	07/18/23
O3645-06	SOIL	07/13/23	07/17/23	07/18/23	07/18/23
O3645-07	SOIL	07/12/23	07/17/23	07/18/23	07/18/23
O3645-08	WATER	07/12/23	07/17/23	07/18/23	07/19/23

*** Details For Test :** PCB Group1

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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORM S-III

SAMPLE PREPARATION AND ANALYSIS SUMMARY MISCELLANEOUS ORGANIC ANALYSES

Laboratory Sample ID	Matrix	Analytical Protocol	Extraction Method	Auxiliary Cleanup	Dil/Conc Factor
O3645-01	Solid	8260D	5035		
O3645-02	Solid	8260D	5035		
O3645-03	Solid	8260D	5035		
O3645-04	Solid	8260D	5035		
O3645-06	Solid	8260D	5035		
O3645-07	Solid	8260D	5035		
O3645-08	Water	8260-Low	5030		
O3645-09	Solid	8260D	5035		
O3645-10	Solid	8260D	5035		

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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORM S-III

SAMPLE PREPARATION AND ANALYSIS SUMMARY MISCELLANEOUS ORGANIC ANALYSES

Laboratory Sample ID	Matrix	Analytical Protocol	Extraction Method	Auxiliary Cleanup	Dil/Conc Factor
O3645-01	Solid	8270E	3541		
O3645-02	Solid	8270E	3541		
O3645-03	Solid	8270E	3541		
O3645-04	Solid	8270E	3541		
O3645-05	Solid	8270E	3541		
O3645-06	Solid	8270E	3541		
O3645-07	Solid	8270E	3541		
O3645-08	Water	8270E	NA		
O3645-09	Solid	8270E	3541		
O3645-10	Solid	8270E	3541		

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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORM S-III

SAMPLE PREPARATION AND ANALYSIS SUMMARY MISCELLANEOUS ORGANIC ANALYSES

Laboratory Sample ID	Matrix	Analytical Protocol	Extraction Method	Auxiliary Cleanup	Dil/Conc Factor
O3645-01	Solid	8082A	NA		
O3645-02	Solid	8082A	NA		
O3645-03	Solid	8082A	NA		
O3645-04	Solid	8082A	NA		
O3645-05	Solid	8082A	NA		
O3645-06	Solid	8082A	NA		
O3645-07	Solid	8082A	NA		
O3645-08	Water	8082A	NA		
O3645-09	Solid	8082A	NA		
O3645-10	Solid	8082A	NA		

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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORM S-IV

SAMPLE PREPARATION AND ANALYSIS SUMMARY INORGANIC ANALYSES

Laboratory Sample ID	Matrix	Analytical Protocol	Extraction Method	Auxiliary Cleanup	Dil/Conc Factor
O3645-01	SOIL	Mercury	07/17/23	07/18/23	07/19/23
O3645-02	SOIL	Mercury	07/17/23	07/18/23	07/19/23
O3645-03	SOIL	Mercury	07/17/23	07/18/23	07/19/23
O3645-04	SOIL	Mercury	07/17/23	07/18/23	07/19/23
O3645-05	SOIL	Mercury	07/17/23	07/18/23	07/19/23
O3645-06	SOIL	Mercury	07/17/23	07/18/23	07/19/23
O3645-07	SOIL	Mercury	07/17/23	07/18/23	07/19/23
O3645-08	Water	Mercury	07/17/23	07/18/23	07/19/23

*** Details For Test :** Mercury

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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORM S-IV

SAMPLE PREPARATION AND ANALYSIS SUMMARY INORGANIC ANALYSES

Laboratory Sample ID	Matrix	Analytical Protocol	Extraction Method	Auxiliary Cleanup	Dil/Conc Factor
O3645-01	SOIL	Metals Group5	07/17/23	07/18/23	07/19/23
O3645-02	SOIL	Metals Group5	07/17/23	07/18/23	07/19/23
O3645-03	SOIL	Metals Group5	07/17/23	07/18/23	07/19/23
O3645-04	SOIL	Metals Group5	07/17/23	07/18/23	07/19/23
O3645-05	SOIL	Metals Group5	07/17/23	07/18/23	07/19/23
O3645-06	SOIL	Metals Group5	07/17/23	07/18/23	07/19/23
O3645-07	SOIL	Metals Group5	07/17/23	07/18/23	07/19/23
O3645-08	Water	Metals Group5	07/17/23	07/17/23	07/31/23

*** Details For Test :** Metals Group5

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Cover Page

Order ID : O3645

Project ID : Mackenna Parcels

Client : LaBella Associates P.C.

Lab Sample Number	Client Sample Number
O3645-01	SB-02-(3-5)
O3645-02	SB-04-(1-5)
O3645-03	SB-07-(1-3)
O3645-04	SB-08-(0.5-2.0)
O3645-05	SB-09-(2.0-4.0)
O3645-06	SB-10-(0.5-2.0)
O3645-07	DUP
O3645-08	RINSATE-BLANK
O3645-09	SB-04-(1-5)MS
O3645-10	SB-04-(1-5)MSD

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: 7/31/2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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CASE NARRATIVE

LaBella Associates P.C.
Project Name: Mackenna Parcels
Project # N/A
Chemtech Project # O3645
Test Name: VOCMS Group1

A. Number of Samples and Date of Receipt:
9 Solid samples were received on 07/17/2023.
1 Water sample was received on 07/17/2023.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Mercury, Metals ICP-RCRA, METALS RCRA, PCB Group1, SVOCMS Group1 and VOCMS Group1. This data package contains results for VOCMS Group1.

C. Analytical Techniques:
The analysis performed on instrument MSVOA_D were done using GC column RTX-VMS which is 20 meters, 0.18 mm id, 1.0 um df, Restek Cat. #49914. The Trap was supplied by SUPELCO, K (VOACARB 3000) , TEKMAR LSC-2000 Concentrator.The analysis performed on instrument MSVOA_N were done using GC column RXI-624SIL MS 30m 0.25mm 1.4 um. Cat#13868.The analysis of VOCMS Group1 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 MS recoveries met the requirements for all compounds .
The MSD recoveries met the acceptable requirements .

The RPD for {O3645-10MSD} with File ID: VD076763.D met criteria except for 1,2,3-Trichlorobenzene[21%], 1,2,4-Trichlorobenzene[21%], Bromodichloromethane[21%], Bromoform[22%], Bromomethane[23%], cis-1,2-Dichloroethene[21%] and Methyl tert-butyl Ether[22%]due to difference in results of MS-MSD.

The RPD for {VN0718WBSD02} with File ID: VN078556.D met criteria except for 1,2-Dibromoethane[23%], 2-Hexanone[40%], Dibromochloromethane[30%], o-Xylene[22%], Styrene[24%] and Tetrachloroethene[40%] due to difference in results of BS-BSD.

The Blank Spike met requirements for all samples .

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The Blank Spike Duplicate for {VN0718WBSD02} with File ID: VN078556.D met requirements for all samples except for 1,1,1-Trichloroethane[109%], 1,1,2-Trichloroethane[129%], 1,2-Dibromoethane[127%], 1,2-Dichloropropane[112%], 2-Hexanone[150%], Bromoform[117%], Chloromethane[117%], cis-1,3-Dichloropropene[113%], Dibromochloromethane[138%], Ethyl Benzene[110%], m/p-Xylenes[113%], o-Xylene[111%], Styrene[116%], t-1,3-Dichloropropene[121%] and Tetrachloroethene[132%]failing high but no positive hit in associated sample therefore no corrective action taken.

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

The %RSD is greater than 20% in the Initial Calibration method (82D071423S.M) for Methylene Chloride, this compound is passing on Linear Regression.

The %RSD is greater than 15% in the Initial Calibration method (82N071023W.M) for Bromomethane, Chloroethane, Methylene Chloride, 1,1,2,2-Tetrachloroethane, 1,2-Dibromo-3-Chloropropane, these compounds are passing on Linear Regression.

The Continuous Calibration File ID VN078550.D met the requirements except for Carbon Disulfide failing marginally low therefore no corrective action taken.

The Tuning criteria met requirements.

E. Additional Comments:
The Samples #SB-02-(3-5),SB-08-(10.5-2.0),SB-10-(0.5-2.0),DUP have the concentration of Carbon Disulfide, while sample#SB-04-(1-5) have the concentration of Carbon Disulfide and Methylcyclohexane below Method detection limits, therefore it is not reported as Hit in Form1.

The temperature of the samples at the time of receipt was 24.3°C.
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 <15% 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 > 15% 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

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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

LaBella Associates P.C.
Project Name: Mackenna Parcels
Project # N/A
Chemtech Project # O3645
Test Name: SVOCMS Group1

A. Number of Samples and Date of Receipt:
9 Solid samples were received on 07/17/2023.
1 Water sample was received on 07/17/2023.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Mercury, Metals ICP-RCRA, METALS RCRA, PCB Group1, SVOCMS Group1 and VOCMS Group1. This data package contains results for SVOCMS Group1.

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 samples were analyzed on instrument BNA_G using GC Column ZB-SemiVolatiles Guardian which is 30 meters, 0.25 mm ID, 0.5 um df, Catalog # 7HG-G027-17-GGAThe samples were analyzed on instrument BNA_M using GC Column ZB-SemiVolatiles Guardian which is 30 meters, 0.25 mm ID, 0.5 um df, Catalog # 7HG-G027-17-GGAThe samples were analyzed on instrument BNA_P using GC Column ZB-SemiVolatiles Guardian which is 30 meters, 0.25 mm ID, 0.5 um df, Catalog # 7HG-G027-17-GGAThe analysis of SVOCMS Group1 was based on method 8270E and extraction was done based on method 3510.

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

The Surrogate recoveries met the acceptable criteria except for SB-10-(0.5-2.0)DL [2-Fluorobiphenyl - 106%], RINSATE-BLANK [Nitrobenzene-d5 - 142%] as per method one surrogate is allowed to fail therefore no corrective action taken.

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 .
The MSD recoveries met the acceptable requirements .
The RPD met criteria .

The Blank Spike for {PB154218BS} with File ID: BP016413.D met requirements for all samples except for 2,2-oxybis(1-Chloropropane)[106%], 4-Nitrophenol[120%], Butylbenzylphthalate[108%] and Hexachloroethane[106%] but no positive hits in associated sample therefore no corrective action taken.

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The Blank Spike Duplicate for {PB154218BSD} with File ID: BP016414.D met requirements for all samples except for 2,2-oxybis(1-Chloropropane)[104%], 4-Nitrophenol[120%] and Butylbenzylphthalate[108%] but no positive hits in associated sample therefore no corrective action taken.

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

The % RSD is greater than 15% in the Initial Calibration method (Method 8270-BF062623.M) for 2,4-Dinitrophenol,this compound is passing on Linear Regression and Benzaldehyde, this compound is passing on Quadratic regression.

The % RSD is greater than 15% in the Initial Calibration method (Method 8270-BF072423.M) for 2,4-Dinitrophenol,this compound is passing on Linear Regression and Hexachlorocyclopentadiene, this compound is passing on Quadratic regression.

The % RSD is greater than 20% in the Initial Calibration method (Method 8270-BF080123.M) for 2-Nitrophenol,2-Nitroaniline, 2,6-Dinitrotoluene, 2,4-Dinitrotoluene ,4,6-Dinitro-2-methylphenol, these compounds are passing on Linear Regression and Benzaldehyde, 2,4-Dinitrophenol , these compounds are passing on Quadratic regression.

The % RSD is greater than 15% in the Initial Calibration method (Method 8270-BG072823.M) for Hexachlorocyclopentadiene, 2,4-Dinitrophenol, 4-Nitrophenol, these compounds are passing on Linear Regression.

The % RSD is greater than 15% in the Initial Calibration method (Method 8270-BM72823.M) for 3-Nitroaniline,4-Nitroaniline,2,4-Dinitrophenol, 2,4-Dinitrotoluene ,Bis(2-ethylhexyl)phthalate, these compounds are passing on Linear Regression.

The % RSD is greater than 15% in the Initial Calibration method (Method 8270-BP072723.M) for 2-Nitrophenol,2,4-Dinitrophenol, 4,6-Dinitro-2-methylphenol, these compounds are passing on Linear Regression and Benzaldehyde, this compound is passing on Quadratic regression.

The Continuous Calibration File ID BF134355.D met the requirements except for 2,2-oxybis(1-Chloropropane) is failing marginally low therefore no corrective action taken.

The Continuous Calibration File ID BG058569.D met the requirements except for 4-Nitroaniline but no positive hits in associated samples therefore no corrective action taken.

The Continuous Calibration File ID BP016411.D met the requirements except for Benzaldehyde but associated QC within limits therefore no corrective action taken.

The Tuning criteria met requirements.

Sample SB-10-(0.5-2.0) was diluted due to high concentration.

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E. Additional Comments:
The Form 6 is not included in the data package because the Initial Calibration was performed using 8 points.

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

The temperature of the samples at the time of receipt was 24.3°C.

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 <15% 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 > 15% 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

LaBella Associates P.C.
Project Name: Mackenna Parcels
Project # N/A
Chemtech Project # O3645
Test Name: PCB Group1

A. Number of Samples and Date of Receipt:
9 Solid samples were received on 07/17/2023.
1 Water sample was received on 07/17/2023.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Mercury, Metals ICP-RCRA, METALS RCRA, PCB Group1, SVOCMS Group1 and VOCMS Group1. This data package contains results for PCB Group1.

C. Analytical Techniques:
The analyses were performed on instrument GCECD_Q.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 PCB Group1s was based on method 8082A and extraction was done based on method 3510.

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 .
The MSD recoveries met the acceptable requirements .
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:
The temperature of the samples at the time of receipt was 24.3°C.

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

LaBella Associates P.C.
Project Name: Mackenna Parcels
Project # N/A
Chemtech Project # O3645
Test Name: Mercury,Metals Group5

A. Number of Samples and Date of Receipt:
9 Solid samples were received on 07/17/2023.
1 Water sample was received on 07/17/2023.

B. Parameters:
According to the Chain of Custody document, the following analyses were requested: Mercury, Metals Group5, PCB Group1, SVOCMS Group1 and VOCMS Group1. This data package contains results for Mercury,Metals Group5.

C. Analytical Techniques:
The analysis of Metals Group5 was based on method 6010D, digestion based on method 3050 (soils) and 3010 (waters).The analysis and digestion of Mercury was based on method 7470A. The analysis and digestion of Mercury was based on method 7471B.

D. QA/ QC Samples:

The Holding Times were met for all analysis.
Sample SB-04-(1-5) was diluted due to high concentrations for Mercury & Sample SB-08-(0.5-2.0) was diluted due to high concentrations for Mercury & Sample SB-10-(0.5-2.0) was diluted due to high concentrations for Mercury.
The Blank Spike met requirements for all samples.
The Duplicate (SB-04-(1-5)MSD) analysis met criteria for all samples except for Copper due to sample matrix interference.
The Matrix Spike (A508MS) analysis met criteria for all samples except for Barium and Zinc due to Chemical interference during Digestion Process. The Matrix Spike (SB-04-(1-5)MS) analysis met criteria for all samples except for Beryllium and Chromium due to sample matrix interference.
The Matrix Spike Duplicate (A508MSD) analysis met criteria for all samples except for Barium and Zinc due to Chemical interference during Digestion Process. The Matrix Spike Duplicate (SB-04-(1-5)MSD) analysis met criteria for all samples except for Barium, Beryllium, Chromium and Copper due to sample matrix interference.
The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.
The Serial Dilution (SB-04-(1-5)L) met criteria for all samples except for Manganese and Zinc due to sample matrix interference.

E. Additional Comments:

The temperature of the samples at the time of receipt was 24.3°C.

Sample O3645-06 was reported with 'OR' qualifier for Zinc Parameter.

This Data Package has been revised due to Parameter List Change as per Client Request.

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.

Signature_____

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

284 Sheffield Street, Mountainside NJ 07092 Tel.
908-789-8900 Fax: 908-789-8922

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

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

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: O3645

	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	✓

1st Level QA Review Signature: SOHIL JODHANI **Date:** 07/31/2024

2nd Level QA Review Signature: _____ **Date:** _____

CHEMTECH
284 Sheffield Street, Mountainside, New Jersey - 07092
Phone: (908) 789 8900 Fax: (908) 789 8922

LAB CHRONICLE

OrderID:	O3645	**OrderDate:**	7/17/2023 9:31:59 AM
Client:	LaBella Associates P.C.	**Project:**	Mackenna Parcels
Contact:	Andrew T. Benkleman	**Location:**	I11,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
O3645-01	**SB-02-(3-5)**	**SOIL**			**07/12/23**			**07/17/23**
			VOCMS Group1	8260D			07/17/23	
O3645-02	**SB-04-(1-5)**	**SOIL**			**07/12/23**			**07/17/23**
			VOCMS Group1	8260D			07/17/23	
O3645-03	**SB-07-(1-3)**	**SOIL**			**07/13/23**			**07/17/23**
			VOCMS Group1	8260D			07/17/23	
O3645-04	**SB-08-(0.5-2.0)**	**SOIL**			**07/13/23**			**07/17/23**
			VOCMS Group1	8260D			07/17/23	
O3645-06	**SB-10-(0.5-2.0)**	**SOIL**			**07/13/23**			**07/17/23**
			VOCMS Group1	8260D			07/17/23	
O3645-07	**DUP**	**SOIL**			**07/12/23**			**07/17/23**
			VOCMS Group1	8260D			07/18/23	
O3645-08	**RINSATE-BLANK**	**Water**			**07/12/23**			**07/17/23**
			VOCMS Group1	8260-Low			07/18/23	

Hit Summary Sheet
SW-846

SDG No.: O3645

Client: LaBella Associates P.C.

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Client ID:	**SB-02-(3-5)**								
O3645-01	SB-02-(3-5)	SOIL	Cyclohexane		8.60		0.63	4.50	ug/Kg
O3645-01	SB-02-(3-5)	SOIL	Methylcyclohexane		13.4		3.00	4.50	ug/Kg
O3645-01	SB-02-(3-5)	SOIL	Benzene		1.90	J	0.59	4.50	ug/Kg
O3645-01	SB-02-(3-5)	SOIL	Toluene		6.30		0.58	4.50	ug/Kg
O3645-01	SB-02-(3-5)	SOIL	Ethyl Benzene		1.20	J	0.60	4.50	ug/Kg
O3645-01	SB-02-(3-5)	SOIL	Total Xylenes		9.20	J	1.99	13.5	ug/Kg
O3645-01	SB-02-(3-5)	SOIL	m/p-Xylenes		6.80	J	1.30	9.00	ug/Kg
O3645-01	SB-02-(3-5)	SOIL	o-Xylene		2.40	J	0.69	4.50	ug/Kg
O3645-01	SB-02-(3-5)	SOIL	1,3,5-Trimethylbenzene		1.70	J	0.57	4.50	ug/Kg
O3645-01	SB-02-(3-5)	SOIL	1,2,4-Trimethylbenzene		4.90		0.60	4.50	ug/Kg
			Total Voc :		47.2				
O3645-01	SB-02-(3-5)	SOIL	Propane	*	8.80	J	0	0	ug/Kg
O3645-01	SB-02-(3-5)	SOIL	Isobutane	*	9.20	J	0	0	ug/Kg
O3645-01	SB-02-(3-5)	SOIL	Butane, 2-methyl-	*	23.1	J	0	0	ug/Kg
O3645-01	SB-02-(3-5)	SOIL	Butane	*	20.3	J	0	0	ug/Kg
O3645-01	SB-02-(3-5)	SOIL	Pentane	*	12.3	J	0	0	ug/Kg
O3645-01	SB-02-(3-5)	SOIL	Octane	*	7.60	J	0	0	ug/Kg
O3645-01	SB-02-(3-5)	SOIL	Heptane	*	9.40	J	0	0	ug/Kg
O3645-01	SB-02-(3-5)	SOIL	2-Ethyl-oxetane	*	17.8	J	0	0	ug/Kg
			Total Tics :		109				
			Total Concentration:		156				
Client ID:	**SB-04-(1-5)**								
O3645-02	SB-04-(1-5)	SOIL	Cyclohexane		1.80	J	0.57	4.10	ug/Kg
			Total Voc :		1.80				
O3645-02	SB-04-(1-5)	SOIL	2-Ethyl-oxetane	*	10.7	J	0	0	ug/Kg
			Total Tics :		10.7				
			Total Concentration:		12.5				
Client ID:	**SB-08-(0.5-2.0)**								
O3645-04	SB-08-(0.5-2.0)	SOIL	Cyclohexane		2.00	J	0.83	5.90	ug/Kg
			Total Voc :		2.00				
O3645-04	SB-08-(0.5-2.0)	SOIL	2-Ethyl-oxetane	*	9.70	J	0	0	ug/Kg
			Total Tics :		9.70				
			Total Concentration:		11.7				
Client ID:	**SB-10-(0.5-2.0)**								
O3645-06	SB-10-(0.5-2.0)	SOIL	Cyclohexane		2.10	J	0.85	6.10	ug/Kg
			Total Voc :		2.10				
O3645-06	SB-10-(0.5-2.0)	SOIL	n-Hexane	*	21.6	J	0	0	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	1H-Indene, 1-methylene-	*	7.50	J	0	0	ug/Kg

Hit Summary Sheet
SW-846

SDG No.: O3645

Client: LaBella Associates P.C.

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
			Total Tics :		29.1				
			Total Concentration:		31.2				
Client ID:	**DUP**								
O3645-07	DUP	SOIL	Cyclohexane		6.20		0.73	5.20	ug/Kg
O3645-07	DUP	SOIL	Methylcyclohexane		6.90		3.50	5.20	ug/Kg
O3645-07	DUP	SOIL	Benzene		1.70	J	0.69	5.20	ug/Kg
O3645-07	DUP	SOIL	Toluene		4.90	J	0.68	5.20	ug/Kg
O3645-07	DUP	SOIL	Total Xylenes		6.00	J	2.30	15.7	ug/Kg
O3645-07	DUP	SOIL	m/p-Xylenes		4.40	J	1.50	10.5	ug/Kg
O3645-07	DUP	SOIL	o-Xylene		1.60	J	0.80	5.20	ug/Kg
O3645-07	DUP	SOIL	1,2,4-Trimethylbenzene		2.90	J	0.70	5.20	ug/Kg
			Total Voc :		28.6				
O3645-07	DUP	SOIL	Propane	*	7.90	J	0	0	ug/Kg
O3645-07	DUP	SOIL	Isobutane	*	6.70	J	0	0	ug/Kg
O3645-07	DUP	SOIL	Butane, 2-methyl-	*	16.7	J	0	0	ug/Kg
O3645-07	DUP	SOIL	Butane	*	16.5	J	0	0	ug/Kg
O3645-07	DUP	SOIL	Pentane	*	8.40	J	0	0	ug/Kg
O3645-07	DUP	SOIL	n-Hexane	*	14.5	J	0	0	ug/Kg
			Total Tics :		70.7				
			Total Concentration:		99.3				

SAMPLE DATA

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/12/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-02-(3-5)	SDG No.:	O3645
Lab Sample ID:	O3645-01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	86.3
Sample Wt/Vol:	6.45 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RTX-VMS ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD076751.D	1		07/17/23 13:36	VD071723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	4.50	U	1.50	4.50	ug/Kg
74-87-3	Chloromethane	4.50	U	0.82	4.50	ug/Kg
75-01-4	Vinyl Chloride	4.50	U	0.84	4.50	ug/Kg
74-83-9	Bromomethane	4.50	U	1.10	4.50	ug/Kg
75-00-3	Chloroethane	4.50	U	0.79	4.50	ug/Kg
75-69-4	Trichlorofluoromethane	4.50	U	0.95	4.50	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	4.50	U	0.65	4.50	ug/Kg
75-35-4	1,1-Dichloroethene	4.50	U	0.71	4.50	ug/Kg
67-64-1	Acetone	22.5	U	8.40	22.5	ug/Kg
75-15-0	Carbon Disulfide	4.50	U	2.00	4.50	ug/Kg
1634-04-4	Methyl tert-butyl Ether	4.50	U	0.58	4.50	ug/Kg
79-20-9	Methyl Acetate	4.50	U	1.50	4.50	ug/Kg
75-09-2	Methylene Chloride	9.00	U	5.40	9.00	ug/Kg
156-60-5	trans-1,2-Dichloroethene	4.50	U	0.66	4.50	ug/Kg
75-34-3	1,1-Dichloroethane	4.50	U	0.65	4.50	ug/Kg
110-82-7	Cyclohexane	8.60		0.63	4.50	ug/Kg
78-93-3	2-Butanone	22.5	U	6.50	22.5	ug/Kg
56-23-5	Carbon Tetrachloride	4.50	U	0.70	4.50	ug/Kg
156-59-2	cis-1,2-Dichloroethene	4.50	U	0.57	4.50	ug/Kg
74-97-5	Bromochloromethane	4.50	U	2.10	4.50	ug/Kg
67-66-3	Chloroform	4.50	U	1.20	4.50	ug/Kg
71-55-6	1,1,1-Trichloroethane	4.50	U	0.68	4.50	ug/Kg
108-87-2	Methylcyclohexane	13.4		3.00	4.50	ug/Kg
71-43-2	Benzene	1.90	J	0.59	4.50	ug/Kg
107-06-2	1,2-Dichloroethane	4.50	U	0.65	4.50	ug/Kg
79-01-6	Trichloroethene	4.50	U	0.59	4.50	ug/Kg
78-87-5	1,2-Dichloropropane	4.50	U	0.53	4.50	ug/Kg
75-27-4	Bromodichloromethane	4.50	U	0.63	4.50	ug/Kg
108-10-1	4-Methyl-2-Pentanone	22.5	U	4.10	22.5	ug/Kg
108-88-3	Toluene	6.30		0.58	4.50	ug/Kg
10061-02-6	t-1,3-Dichloropropene	4.50	U	0.69	4.50	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	4.50	U	0.66	4.50	ug/Kg

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/12/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-02-(3-5)	SDG No.:	O3645
Lab Sample ID:	O3645-01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	86.3
Sample Wt/Vol:	6.45 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RTX-VMS ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD076751.D	1		07/17/23 13:36	VD071723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
79-00-5	1,1,2-Trichloroethane	4.50	U	0.77	4.50	ug/Kg
591-78-6	2-Hexanone	22.5	U	4.70	22.5	ug/Kg
124-48-1	Dibromochloromethane	4.50	U	0.76	4.50	ug/Kg
106-93-4	1,2-Dibromoethane	4.50	U	0.71	4.50	ug/Kg
127-18-4	Tetrachloroethene	4.50	U	0.69	4.50	ug/Kg
108-90-7	Chlorobenzene	4.50	U	0.57	4.50	ug/Kg
100-41-4	Ethyl Benzene	1.20	J	0.60	4.50	ug/Kg
179601-23-1	m/p-Xylenes	6.80	J	1.30	9.00	ug/Kg
1330-20-7	Total Xylenes	9.20	J	1.99	13.5	ug/Kg
95-47-6	o-Xylene	2.40	J	0.69	4.50	ug/Kg
100-42-5	Styrene	4.50	U	0.62	4.50	ug/Kg
75-25-2	Bromoform	4.50	U	0.85	4.50	ug/Kg
98-82-8	Isopropylbenzene	4.50	U	0.64	4.50	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	4.50	U	0.96	4.50	ug/Kg
103-65-1	n-propylbenzene	4.50	U	0.63	4.50	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	1.70	J	0.57	4.50	ug/Kg
98-06-6	tert-Butylbenzene	4.50	U	0.69	4.50	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	4.90		0.60	4.50	ug/Kg
135-98-8	sec-Butylbenzene	4.50	U	0.69	4.50	ug/Kg
99-87-6	p-Isopropyltoluene	4.50	U	0.66	4.50	ug/Kg
541-73-1	1,3-Dichlorobenzene	4.50	U	0.61	4.50	ug/Kg
106-46-7	1,4-Dichlorobenzene	4.50	U	0.54	4.50	ug/Kg
104-51-8	n-Butylbenzene	4.50	U	0.61	4.50	ug/Kg
95-50-1	1,2-Dichlorobenzene	4.50	U	0.54	4.50	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	4.50	U	1.10	4.50	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	4.50	U	0.55	4.50	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	4.50	U	0.57	4.50	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	57.1		50 - 163	114%	SPK: 50
1868-53-7	Dibromofluoromethane	53.0		54 - 147	106%	SPK: 50
2037-26-5	Toluene-d8	55.3		58 - 134	111%	SPK: 50
460-00-4	4-Bromofluorobenzene	55.2		30 - 143	110%	SPK: 50
INTERNAL STANDARDS						

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/12/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-02-(3-5)	SDG No.:	O3645
Lab Sample ID:	O3645-01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	86.3
Sample Wt/Vol:	6.45 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RTX-VMS ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD076751.D	1		07/17/23 13:36	VD071723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
363-72-4	Pentafluorobenzene	185000	7.875			
540-36-3	1,4-Difluorobenzene	404000	8.775			
3114-55-4	Chlorobenzene-d5	401000	11.581			
3855-82-1	1,4-Dichlorobenzene-d4	188000	13.516			
TENTATIVE IDENTIFIED COMPOUNDS						
000074-98-6	Propane	8.80	J		1.89	ug/Kg
000075-28-5	Isobutane	9.20	J		2.10	ug/Kg
000106-97-8	Butane	20.3	J		2.27	ug/Kg
000078-78-4	Butane, 2-methyl-	23.1	J		2.94	ug/Kg
000109-66-0	Pentane	12.3	J		3.29	ug/Kg
1010386-40-2	2-Ethyl-oxetane	17.8	J		5.84	ug/Kg
000142-82-5	Heptane	9.40	J		8.63	ug/Kg
000111-65-9	Octane	7.60	J		10.5	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

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/12/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-04-(1-5)	SDG No.:	O3645
Lab Sample ID:	O3645-02	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	91.3
Sample Wt/Vol:	6.74 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RTX-VMS ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD076752.D	1		07/17/23 14:04	VD071723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	4.10	U	1.30	4.10	ug/Kg
74-87-3	Chloromethane	4.10	U	0.74	4.10	ug/Kg
75-01-4	Vinyl Chloride	4.10	U	0.76	4.10	ug/Kg
74-83-9	Bromomethane	4.10	U	0.98	4.10	ug/Kg
75-00-3	Chloroethane	4.10	U	0.72	4.10	ug/Kg
75-69-4	Trichlorofluoromethane	4.10	U	0.86	4.10	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	4.10	U	0.59	4.10	ug/Kg
75-35-4	1,1-Dichloroethene	4.10	U	0.64	4.10	ug/Kg
67-64-1	Acetone	20.3	U	7.60	20.3	ug/Kg
75-15-0	Carbon Disulfide	4.10	U	1.80	4.10	ug/Kg
1634-04-4	Methyl tert-butyl Ether	4.10	U	0.53	4.10	ug/Kg
79-20-9	Methyl Acetate	4.10	U	1.30	4.10	ug/Kg
75-09-2	Methylene Chloride	8.10	U	4.90	8.10	ug/Kg
156-60-5	trans-1,2-Dichloroethene	4.10	U	0.59	4.10	ug/Kg
75-34-3	1,1-Dichloroethane	4.10	U	0.59	4.10	ug/Kg
110-82-7	Cyclohexane	1.80	J	0.57	4.10	ug/Kg
78-93-3	2-Butanone	20.3	U	5.90	20.3	ug/Kg
56-23-5	Carbon Tetrachloride	4.10	U	0.63	4.10	ug/Kg
156-59-2	cis-1,2-Dichloroethene	4.10	U	0.52	4.10	ug/Kg
74-97-5	Bromochloromethane	4.10	U	1.90	4.10	ug/Kg
67-66-3	Chloroform	4.10	U	1.10	4.10	ug/Kg
71-55-6	1,1,1-Trichloroethane	4.10	U	0.62	4.10	ug/Kg
108-87-2	Methylcyclohexane	4.10	U	2.70	4.10	ug/Kg
71-43-2	Benzene	4.10	U	0.54	4.10	ug/Kg
107-06-2	1,2-Dichloroethane	4.10	U	0.59	4.10	ug/Kg
79-01-6	Trichloroethene	4.10	U	0.54	4.10	ug/Kg
78-87-5	1,2-Dichloropropane	4.10	U	0.48	4.10	ug/Kg
75-27-4	Bromodichloromethane	4.10	U	0.57	4.10	ug/Kg
108-10-1	4-Methyl-2-Pentanone	20.3	U	3.70	20.3	ug/Kg
108-88-3	Toluene	4.10	U	0.53	4.10	ug/Kg
10061-02-6	t-1,3-Dichloropropene	4.10	U	0.63	4.10	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	4.10	U	0.60	4.10	ug/Kg

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/12/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-04-(1-5)	SDG No.:	O3645
Lab Sample ID:	O3645-02	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	91.3
Sample Wt/Vol:	6.74 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RTX-VMS ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD076752.D	1		07/17/23 14:04	VD071723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
79-00-5	1,1,2-Trichloroethane	4.10	U	0.70	4.10	ug/Kg
591-78-6	2-Hexanone	20.3	U	4.30	20.3	ug/Kg
124-48-1	Dibromochloromethane	4.10	U	0.69	4.10	ug/Kg
106-93-4	1,2-Dibromoethane	4.10	U	0.64	4.10	ug/Kg
127-18-4	Tetrachloroethene	4.10	U	0.63	4.10	ug/Kg
108-90-7	Chlorobenzene	4.10	U	0.51	4.10	ug/Kg
100-41-4	Ethyl Benzene	4.10	U	0.54	4.10	ug/Kg
179601-23-1	m/p-Xylenes	8.10	U	1.20	8.10	ug/Kg
1330-20-7	Total Xylenes	12.2	U	1.83	12.2	ug/Kg
95-47-6	o-Xylene	4.10	U	0.63	4.10	ug/Kg
100-42-5	Styrene	4.10	U	0.56	4.10	ug/Kg
75-25-2	Bromoform	4.10	U	0.77	4.10	ug/Kg
98-82-8	Isopropylbenzene	4.10	U	0.58	4.10	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	4.10	U	0.87	4.10	ug/Kg
103-65-1	n-propylbenzene	4.10	U	0.57	4.10	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	4.10	U	0.52	4.10	ug/Kg
98-06-6	tert-Butylbenzene	4.10	U	0.63	4.10	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	4.10	U	0.54	4.10	ug/Kg
135-98-8	sec-Butylbenzene	4.10	U	0.63	4.10	ug/Kg
99-87-6	p-Isopropyltoluene	4.10	U	0.60	4.10	ug/Kg
541-73-1	1,3-Dichlorobenzene	4.10	U	0.55	4.10	ug/Kg
106-46-7	1,4-Dichlorobenzene	4.10	U	0.49	4.10	ug/Kg
104-51-8	n-Butylbenzene	4.10	U	0.55	4.10	ug/Kg
95-50-1	1,2-Dichlorobenzene	4.10	U	0.49	4.10	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	4.10	U	0.97	4.10	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	4.10	U	0.50	4.10	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	4.10	U	0.51	4.10	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	58.0		50 - 163	116%	SPK: 50
1868-53-7	Dibromofluoromethane	53.8		54 - 147	108%	SPK: 50
2037-26-5	Toluene-d8	55.7		58 - 134	111%	SPK: 50
460-00-4	4-Bromofluorobenzene	56.7		30 - 143	113%	SPK: 50
INTERNAL STANDARDS						

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/12/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-04-(1-5)	SDG No.:	O3645
Lab Sample ID:	O3645-02	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	91.3
Sample Wt/Vol:	6.74 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RTX-VMS ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD076752.D	1		07/17/23 14:04	VD071723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
363-72-4	Pentafluorobenzene	172000	7.875			
540-36-3	1,4-Difluorobenzene	366000	8.775			
3114-55-4	Chlorobenzene-d5	369000	11.581			
3855-82-1	1,4-Dichlorobenzene-d4	171000	13.516			
TENTATIVE IDENTIFIED COMPOUNDS						
1010386-40-2	2-Ethyl-oxetane	10.7	J		5.83	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

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/13/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-07-(1-3)	SDG No.:	O3645
Lab Sample ID:	O3645-03	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	79.5
Sample Wt/Vol:	5.74 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RTX-VMS ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD076753.D	1		07/17/23 14:32	VD071723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	5.50	U	1.80	5.50	ug/Kg
74-87-3	Chloromethane	5.50	U	1.00	5.50	ug/Kg
75-01-4	Vinyl Chloride	5.50	U	1.00	5.50	ug/Kg
74-83-9	Bromomethane	5.50	U	1.30	5.50	ug/Kg
75-00-3	Chloroethane	5.50	U	0.96	5.50	ug/Kg
75-69-4	Trichlorofluoromethane	5.50	U	1.20	5.50	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	5.50	U	0.79	5.50	ug/Kg
75-35-4	1,1-Dichloroethene	5.50	U	0.87	5.50	ug/Kg
67-64-1	Acetone	27.4	U	10.3	27.4	ug/Kg
75-15-0	Carbon Disulfide	5.50	U	2.40	5.50	ug/Kg
1634-04-4	Methyl tert-butyl Ether	5.50	U	0.71	5.50	ug/Kg
79-20-9	Methyl Acetate	5.50	U	1.80	5.50	ug/Kg
75-09-2	Methylene Chloride	11.0	U	6.60	11.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	5.50	U	0.80	5.50	ug/Kg
75-34-3	1,1-Dichloroethane	5.50	U	0.79	5.50	ug/Kg
110-82-7	Cyclohexane	5.50	U	0.77	5.50	ug/Kg
78-93-3	2-Butanone	27.4	U	8.00	27.4	ug/Kg
56-23-5	Carbon Tetrachloride	5.50	U	0.85	5.50	ug/Kg
156-59-2	cis-1,2-Dichloroethene	5.50	U	0.70	5.50	ug/Kg
74-97-5	Bromochloromethane	5.50	U	2.60	5.50	ug/Kg
67-66-3	Chloroform	5.50	U	1.40	5.50	ug/Kg
71-55-6	1,1,1-Trichloroethane	5.50	U	0.83	5.50	ug/Kg
108-87-2	Methylcyclohexane	5.50	U	3.70	5.50	ug/Kg
71-43-2	Benzene	5.50	U	0.72	5.50	ug/Kg
107-06-2	1,2-Dichloroethane	5.50	U	0.79	5.50	ug/Kg
79-01-6	Trichloroethene	5.50	U	0.72	5.50	ug/Kg
78-87-5	1,2-Dichloropropane	5.50	U	0.65	5.50	ug/Kg
75-27-4	Bromodichloromethane	5.50	U	0.77	5.50	ug/Kg
108-10-1	4-Methyl-2-Pentanone	27.4	U	4.90	27.4	ug/Kg
108-88-3	Toluene	5.50	U	0.71	5.50	ug/Kg
10061-02-6	t-1,3-Dichloropropene	5.50	U	0.84	5.50	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	5.50	U	0.81	5.50	ug/Kg

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/13/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-07-(1-3)	SDG No.:	O3645
Lab Sample ID:	O3645-03	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	79.5
Sample Wt/Vol:	5.74 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RTX-VMS ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD076753.D	1		07/17/23 14:32	VD071723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
79-00-5	1,1,2-Trichloroethane	5.50	U	0.94	5.50	ug/Kg
591-78-6	2-Hexanone	27.4	U	5.80	27.4	ug/Kg
124-48-1	Dibromochloromethane	5.50	U	0.93	5.50	ug/Kg
106-93-4	1,2-Dibromoethane	5.50	U	0.87	5.50	ug/Kg
127-18-4	Tetrachloroethene	5.50	U	0.84	5.50	ug/Kg
108-90-7	Chlorobenzene	5.50	U	0.69	5.50	ug/Kg
100-41-4	Ethyl Benzene	5.50	U	0.73	5.50	ug/Kg
179601-23-1	m/p-Xylenes	11.0	U	1.60	11.0	ug/Kg
1330-20-7	Total Xylenes	16.5	U	2.44	16.5	ug/Kg
95-47-6	o-Xylene	5.50	U	0.84	5.50	ug/Kg
100-42-5	Styrene	5.50	U	0.76	5.50	ug/Kg
75-25-2	Bromoform	5.50	U	1.00	5.50	ug/Kg
98-82-8	Isopropylbenzene	5.50	U	0.78	5.50	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	5.50	U	1.20	5.50	ug/Kg
103-65-1	n-propylbenzene	5.50	U	0.77	5.50	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	5.50	U	0.70	5.50	ug/Kg
98-06-6	tert-Butylbenzene	5.50	U	0.84	5.50	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	5.50	U	0.73	5.50	ug/Kg
135-98-8	sec-Butylbenzene	5.50	U	0.84	5.50	ug/Kg
99-87-6	p-Isopropyltoluene	5.50	U	0.81	5.50	ug/Kg
541-73-1	1,3-Dichlorobenzene	5.50	U	0.75	5.50	ug/Kg
106-46-7	1,4-Dichlorobenzene	5.50	U	0.66	5.50	ug/Kg
104-51-8	n-Butylbenzene	5.50	U	0.75	5.50	ug/Kg
95-50-1	1,2-Dichlorobenzene	5.50	U	0.66	5.50	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	5.50	U	1.30	5.50	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	5.50	U	0.67	5.50	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	5.50	U	0.69	5.50	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	58.1		50 - 163	116%	SPK: 50
1868-53-7	Dibromofluoromethane	52.3		54 - 147	105%	SPK: 50
2037-26-5	Toluene-d8	55.2		58 - 134	110%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.1		30 - 143	100%	SPK: 50
INTERNAL STANDARDS						

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/13/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-07-(1-3)	SDG No.:	O3645
Lab Sample ID:	O3645-03	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	79.5
Sample Wt/Vol:	5.74 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RTX-VMS ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD076753.D	1		07/17/23 14:32	VD071723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
363-72-4	Pentafluorobenzene	151000	7.875			
540-36-3	1,4-Difluorobenzene	332000	8.781			
3114-55-4	Chlorobenzene-d5	315000	11.581			
3855-82-1	1,4-Dichlorobenzene-d4	129000	13.516			

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

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/13/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-08-(0.5-2.0)	SDG No.:	O3645
Lab Sample ID:	O3645-04	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	74.6
Sample Wt/Vol:	5.67 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RTX-VMS ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD076754.D	1		07/17/23 15:01	VD071723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	5.90	U	1.90	5.90	ug/Kg
74-87-3	Chloromethane	5.90	U	1.10	5.90	ug/Kg
75-01-4	Vinyl Chloride	5.90	U	1.10	5.90	ug/Kg
74-83-9	Bromomethane	5.90	U	1.40	5.90	ug/Kg
75-00-3	Chloroethane	5.90	U	1.00	5.90	ug/Kg
75-69-4	Trichlorofluoromethane	5.90	U	1.30	5.90	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	5.90	U	0.85	5.90	ug/Kg
75-35-4	1,1-Dichloroethene	5.90	U	0.93	5.90	ug/Kg
67-64-1	Acetone	29.6	U	11.1	29.6	ug/Kg
75-15-0	Carbon Disulfide	5.90	U	2.60	5.90	ug/Kg
1634-04-4	Methyl tert-butyl Ether	5.90	U	0.77	5.90	ug/Kg
79-20-9	Methyl Acetate	5.90	U	1.90	5.90	ug/Kg
75-09-2	Methylene Chloride	11.8	U	7.20	11.8	ug/Kg
156-60-5	trans-1,2-Dichloroethene	5.90	U	0.86	5.90	ug/Kg
75-34-3	1,1-Dichloroethane	5.90	U	0.85	5.90	ug/Kg
110-82-7	Cyclohexane	2.00	J	0.83	5.90	ug/Kg
78-93-3	2-Butanone	29.6	U	8.60	29.6	ug/Kg
56-23-5	Carbon Tetrachloride	5.90	U	0.92	5.90	ug/Kg
156-59-2	cis-1,2-Dichloroethene	5.90	U	0.76	5.90	ug/Kg
74-97-5	Bromochloromethane	5.90	U	2.80	5.90	ug/Kg
67-66-3	Chloroform	5.90	U	1.60	5.90	ug/Kg
71-55-6	1,1,1-Trichloroethane	5.90	U	0.90	5.90	ug/Kg
108-87-2	Methylcyclohexane	5.90	U	4.00	5.90	ug/Kg
71-43-2	Benzene	5.90	U	0.78	5.90	ug/Kg
107-06-2	1,2-Dichloroethane	5.90	U	0.85	5.90	ug/Kg
79-01-6	Trichloroethene	5.90	U	0.78	5.90	ug/Kg
78-87-5	1,2-Dichloropropane	5.90	U	0.70	5.90	ug/Kg
75-27-4	Bromodichloromethane	5.90	U	0.83	5.90	ug/Kg
108-10-1	4-Methyl-2-Pentanone	29.6	U	5.30	29.6	ug/Kg
108-88-3	Toluene	5.90	U	0.77	5.90	ug/Kg
10061-02-6	t-1,3-Dichloropropene	5.90	U	0.91	5.90	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	5.90	U	0.87	5.90	ug/Kg

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/13/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-08-(0.5-2.0)	SDG No.:	O3645
Lab Sample ID:	O3645-04	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	74.6
Sample Wt/Vol:	5.67 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RTX-VMS ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD076754.D	1		07/17/23 15:01	VD071723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
79-00-5	1,1,2-Trichloroethane	5.90	U	1.00	5.90	ug/Kg
591-78-6	2-Hexanone	29.6	U	6.20	29.6	ug/Kg
124-48-1	Dibromochloromethane	5.90	U	1.00	5.90	ug/Kg
106-93-4	1,2-Dibromoethane	5.90	U	0.93	5.90	ug/Kg
127-18-4	Tetrachloroethene	5.90	U	0.91	5.90	ug/Kg
108-90-7	Chlorobenzene	5.90	U	0.74	5.90	ug/Kg
100-41-4	Ethyl Benzene	5.90	U	0.79	5.90	ug/Kg
179601-23-1	m/p-Xylenes	11.8	U	1.70	11.8	ug/Kg
1330-20-7	Total Xylenes	17.7	U	2.61	17.7	ug/Kg
95-47-6	o-Xylene	5.90	U	0.91	5.90	ug/Kg
100-42-5	Styrene	5.90	U	0.82	5.90	ug/Kg
75-25-2	Bromoform	5.90	U	1.10	5.90	ug/Kg
98-82-8	Isopropylbenzene	5.90	U	0.84	5.90	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	5.90	U	1.30	5.90	ug/Kg
103-65-1	n-propylbenzene	5.90	U	0.83	5.90	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	5.90	U	0.76	5.90	ug/Kg
98-06-6	tert-Butylbenzene	5.90	U	0.91	5.90	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	5.90	U	0.79	5.90	ug/Kg
135-98-8	sec-Butylbenzene	5.90	U	0.91	5.90	ug/Kg
99-87-6	p-Isopropyltoluene	5.90	U	0.87	5.90	ug/Kg
541-73-1	1,3-Dichlorobenzene	5.90	U	0.80	5.90	ug/Kg
106-46-7	1,4-Dichlorobenzene	5.90	U	0.71	5.90	ug/Kg
104-51-8	n-Butylbenzene	5.90	U	0.80	5.90	ug/Kg
95-50-1	1,2-Dichlorobenzene	5.90	U	0.71	5.90	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	5.90	U	1.40	5.90	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	5.90	U	0.72	5.90	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	5.90	U	0.74	5.90	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	65.5		50 - 163	131%	SPK: 50
1868-53-7	Dibromofluoromethane	55.4		54 - 147	111%	SPK: 50
2037-26-5	Toluene-d8	54.8		58 - 134	110%	SPK: 50
460-00-4	4-Bromofluorobenzene	40.7		30 - 143	81%	SPK: 50
INTERNAL STANDARDS						

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/13/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-08-(0.5-2.0)	SDG No.:	O3645
Lab Sample ID:	O3645-04	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	74.6
Sample Wt/Vol:	5.67 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RTX-VMS ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD076754.D	1		07/17/23 15:01	VD071723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
363-72-4	Pentafluorobenzene	151000	7.875			
540-36-3	1,4-Difluorobenzene	339000	8.775			
3114-55-4	Chlorobenzene-d5	298000	11.581			
3855-82-1	1,4-Dichlorobenzene-d4	92300	13.516			
TENTATIVE IDENTIFIED COMPOUNDS						
1010386-40-2	2-Ethyl-oxetane	9.70	J		5.84	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

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/13/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-10-(0.5-2.0)	SDG No.:	O3645
Lab Sample ID:	O3645-06	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	83.3
Sample Wt/Vol:	4.92 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RTX-VMS ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD076756.D	1		07/17/23 15:57	VD071723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	6.10	U	2.00	6.10	ug/Kg
74-87-3	Chloromethane	6.10	U	1.10	6.10	ug/Kg
75-01-4	Vinyl Chloride	6.10	U	1.10	6.10	ug/Kg
74-83-9	Bromomethane	6.10	U	1.50	6.10	ug/Kg
75-00-3	Chloroethane	6.10	U	1.10	6.10	ug/Kg
75-69-4	Trichlorofluoromethane	6.10	U	1.30	6.10	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	6.10	U	0.88	6.10	ug/Kg
75-35-4	1,1-Dichloroethene	6.10	U	0.96	6.10	ug/Kg
67-64-1	Acetone	30.5	U	11.4	30.5	ug/Kg
75-15-0	Carbon Disulfide	6.10	U	2.70	6.10	ug/Kg
1634-04-4	Methyl tert-butyl Ether	6.10	U	0.79	6.10	ug/Kg
79-20-9	Methyl Acetate	6.10	U	2.00	6.10	ug/Kg
75-09-2	Methylene Chloride	12.2	U	7.40	12.2	ug/Kg
156-60-5	trans-1,2-Dichloroethene	6.10	U	0.89	6.10	ug/Kg
75-34-3	1,1-Dichloroethane	6.10	U	0.88	6.10	ug/Kg
110-82-7	Cyclohexane	2.10	J	0.85	6.10	ug/Kg
78-93-3	2-Butanone	30.5	U	8.90	30.5	ug/Kg
56-23-5	Carbon Tetrachloride	6.10	U	0.95	6.10	ug/Kg
156-59-2	cis-1,2-Dichloroethene	6.10	U	0.78	6.10	ug/Kg
74-97-5	Bromochloromethane	6.10	U	2.90	6.10	ug/Kg
67-66-3	Chloroform	6.10	U	1.60	6.10	ug/Kg
71-55-6	1,1,1-Trichloroethane	6.10	U	0.93	6.10	ug/Kg
108-87-2	Methylcyclohexane	6.10	U	4.10	6.10	ug/Kg
71-43-2	Benzene	6.10	U	0.81	6.10	ug/Kg
107-06-2	1,2-Dichloroethane	6.10	U	0.88	6.10	ug/Kg
79-01-6	Trichloroethene	6.10	U	0.81	6.10	ug/Kg
78-87-5	1,2-Dichloropropane	6.10	U	0.72	6.10	ug/Kg
75-27-4	Bromodichloromethane	6.10	U	0.85	6.10	ug/Kg
108-10-1	4-Methyl-2-Pentanone	30.5	U	5.50	30.5	ug/Kg
108-88-3	Toluene	6.10	U	0.79	6.10	ug/Kg
10061-02-6	t-1,3-Dichloropropene	6.10	U	0.94	6.10	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	6.10	U	0.90	6.10	ug/Kg

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/13/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-10-(0.5-2.0)	SDG No.:	O3645
Lab Sample ID:	O3645-06	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	83.3
Sample Wt/Vol:	4.92 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RTX-VMS ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD076756.D	1		07/17/23 15:57	VD071723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
79-00-5	1,1,2-Trichloroethane	6.10	U	1.00	6.10	ug/Kg
591-78-6	2-Hexanone	30.5	U	6.40	30.5	ug/Kg
124-48-1	Dibromochloromethane	6.10	U	1.00	6.10	ug/Kg
106-93-4	1,2-Dibromoethane	6.10	U	0.96	6.10	ug/Kg
127-18-4	Tetrachloroethene	6.10	U	0.94	6.10	ug/Kg
108-90-7	Chlorobenzene	6.10	U	0.77	6.10	ug/Kg
100-41-4	Ethyl Benzene	6.10	U	0.82	6.10	ug/Kg
179601-23-1	m/p-Xylenes	12.2	U	1.70	12.2	ug/Kg
1330-20-7	Total Xylenes	18.3	U	2.64	18.3	ug/Kg
95-47-6	o-Xylene	6.10	U	0.94	6.10	ug/Kg
100-42-5	Styrene	6.10	U	0.84	6.10	ug/Kg
75-25-2	Bromoform	6.10	U	1.20	6.10	ug/Kg
98-82-8	Isopropylbenzene	6.10	U	0.87	6.10	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	6.10	U	1.30	6.10	ug/Kg
103-65-1	n-propylbenzene	6.10	U	0.85	6.10	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	6.10	U	0.78	6.10	ug/Kg
98-06-6	tert-Butylbenzene	6.10	U	0.94	6.10	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	6.10	U	0.82	6.10	ug/Kg
135-98-8	sec-Butylbenzene	6.10	U	0.94	6.10	ug/Kg
99-87-6	p-Isopropyltoluene	6.10	U	0.90	6.10	ug/Kg
541-73-1	1,3-Dichlorobenzene	6.10	U	0.83	6.10	ug/Kg
106-46-7	1,4-Dichlorobenzene	6.10	U	0.73	6.10	ug/Kg
104-51-8	n-Butylbenzene	6.10	U	0.83	6.10	ug/Kg
95-50-1	1,2-Dichlorobenzene	6.10	U	0.73	6.10	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	6.10	U	1.50	6.10	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	6.10	U	0.74	6.10	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	6.10	U	0.77	6.10	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	67.1		50 - 163	134%	SPK: 50
1868-53-7	Dibromofluoromethane	54.5		54 - 147	109%	SPK: 50
2037-26-5	Toluene-d8	56.1		58 - 134	112%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.5		30 - 143	107%	SPK: 50
INTERNAL STANDARDS						

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/13/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-10-(0.5-2.0)	SDG No.:	O3645
Lab Sample ID:	O3645-06	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	83.3
Sample Wt/Vol:	4.92 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RTX-VMS ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD076756.D	1		07/17/23 15:57	VD071723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
363-72-4	Pentafluorobenzene	134000	7.875			
540-36-3	1,4-Difluorobenzene	311000	8.775			
3114-55-4	Chlorobenzene-d5	308000	11.581			
3855-82-1	1,4-Dichlorobenzene-d4	139000	13.516			
TENTATIVE IDENTIFIED COMPOUNDS						
000110-54-3	n-Hexane	21.6	J		5.84	ug/Kg
002471-84-3	1H-Indene, 1-methylene-	7.50	J		15.3	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

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/12/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	DUP	SDG No.:	O3645
Lab Sample ID:	O3645-07	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	80.8
Sample Wt/Vol:	5.92 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RTX-VMS ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD076777.D	1		07/18/23 14:49	VD071823

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	5.20	U	1.70	5.20	ug/Kg
74-87-3	Chloromethane	5.20	U	0.95	5.20	ug/Kg
75-01-4	Vinyl Chloride	5.20	U	0.97	5.20	ug/Kg
74-83-9	Bromomethane	5.20	U	1.30	5.20	ug/Kg
75-00-3	Chloroethane	5.20	U	0.92	5.20	ug/Kg
75-69-4	Trichlorofluoromethane	5.20	U	1.10	5.20	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	5.20	U	0.75	5.20	ug/Kg
75-35-4	1,1-Dichloroethene	5.20	U	0.83	5.20	ug/Kg
67-64-1	Acetone	26.1	U	9.80	26.1	ug/Kg
75-15-0	Carbon Disulfide	5.20	U	2.30	5.20	ug/Kg
1634-04-4	Methyl tert-butyl Ether	5.20	U	0.68	5.20	ug/Kg
79-20-9	Methyl Acetate	5.20	U	1.70	5.20	ug/Kg
75-09-2	Methylene Chloride	10.5	U	6.30	10.5	ug/Kg
156-60-5	trans-1,2-Dichloroethene	5.20	U	0.76	5.20	ug/Kg
75-34-3	1,1-Dichloroethane	5.20	U	0.75	5.20	ug/Kg
110-82-7	Cyclohexane	6.20		0.73	5.20	ug/Kg
78-93-3	2-Butanone	26.1	U	7.60	26.1	ug/Kg
56-23-5	Carbon Tetrachloride	5.20	U	0.82	5.20	ug/Kg
156-59-2	cis-1,2-Dichloroethene	5.20	U	0.67	5.20	ug/Kg
74-97-5	Bromochloromethane	5.20	U	2.50	5.20	ug/Kg
67-66-3	Chloroform	5.20	U	1.40	5.20	ug/Kg
71-55-6	1,1,1-Trichloroethane	5.20	U	0.79	5.20	ug/Kg
108-87-2	Methylcyclohexane	6.90		3.50	5.20	ug/Kg
71-43-2	Benzene	1.70	J	0.69	5.20	ug/Kg
107-06-2	1,2-Dichloroethane	5.20	U	0.75	5.20	ug/Kg
79-01-6	Trichloroethene	5.20	U	0.69	5.20	ug/Kg
78-87-5	1,2-Dichloropropane	5.20	U	0.62	5.20	ug/Kg
75-27-4	Bromodichloromethane	5.20	U	0.73	5.20	ug/Kg
108-10-1	4-Methyl-2-Pentanone	26.1	U	4.70	26.1	ug/Kg
108-88-3	Toluene	4.90	J	0.68	5.20	ug/Kg
10061-02-6	t-1,3-Dichloropropene	5.20	U	0.80	5.20	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	5.20	U	0.77	5.20	ug/Kg

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/12/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	DUP	SDG No.:	O3645
Lab Sample ID:	O3645-07	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	80.8
Sample Wt/Vol:	5.92 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RTX-VMS ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD076777.D	1		07/18/23 14:49	VD071823

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
79-00-5	1,1,2-Trichloroethane	5.20	U	0.90	5.20	ug/Kg
591-78-6	2-Hexanone	26.1	U	5.50	26.1	ug/Kg
124-48-1	Dibromochloromethane	5.20	U	0.89	5.20	ug/Kg
106-93-4	1,2-Dibromoethane	5.20	U	0.83	5.20	ug/Kg
127-18-4	Tetrachloroethene	5.20	U	0.80	5.20	ug/Kg
108-90-7	Chlorobenzene	5.20	U	0.66	5.20	ug/Kg
100-41-4	Ethyl Benzene	5.20	U	0.70	5.20	ug/Kg
179601-23-1	m/p-Xylenes	4.40	J	1.50	10.5	ug/Kg
1330-20-7	Total Xylenes	6.00	J	2.30	15.7	ug/Kg
95-47-6	o-Xylene	1.60	J	0.80	5.20	ug/Kg
100-42-5	Styrene	5.20	U	0.72	5.20	ug/Kg
75-25-2	Bromoform	5.20	U	0.99	5.20	ug/Kg
98-82-8	Isopropylbenzene	5.20	U	0.74	5.20	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	5.20	U	1.10	5.20	ug/Kg
103-65-1	n-propylbenzene	5.20	U	0.73	5.20	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	5.20	U	0.67	5.20	ug/Kg
98-06-6	tert-Butylbenzene	5.20	U	0.80	5.20	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	2.90	J	0.70	5.20	ug/Kg
135-98-8	sec-Butylbenzene	5.20	U	0.80	5.20	ug/Kg
99-87-6	p-Isopropyltoluene	5.20	U	0.77	5.20	ug/Kg
541-73-1	1,3-Dichlorobenzene	5.20	U	0.71	5.20	ug/Kg
106-46-7	1,4-Dichlorobenzene	5.20	U	0.63	5.20	ug/Kg
104-51-8	n-Butylbenzene	5.20	U	0.71	5.20	ug/Kg
95-50-1	1,2-Dichlorobenzene	5.20	U	0.63	5.20	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	5.20	U	1.20	5.20	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	5.20	U	0.64	5.20	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	5.20	U	0.66	5.20	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	63.8		50 - 163	128%	SPK: 50
1868-53-7	Dibromofluoromethane	51.5		54 - 147	103%	SPK: 50
2037-26-5	Toluene-d8	55.8		58 - 134	112%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.0		30 - 143	98%	SPK: 50
INTERNAL STANDARDS						

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/12/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	DUP	SDG No.:	O3645
Lab Sample ID:	O3645-07	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	80.8
Sample Wt/Vol:	5.92 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RTX-VMS ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD076777.D	1		07/18/23 14:49	VD071823

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
363-72-4	Pentafluorobenzene	148000	7.875			
540-36-3	1,4-Difluorobenzene	355000	8.775			
3114-55-4	Chlorobenzene-d5	329000	11.581			
3855-82-1	1,4-Dichlorobenzene-d4	142000	13.516			
TENTATIVE IDENTIFIED COMPOUNDS						
000074-98-6	Propane	7.90	J		1.89	ug/Kg
000075-28-5	Isobutane	6.70	J		2.10	ug/Kg
000106-97-8	Butane	16.5	J		2.27	ug/Kg
000078-78-4	Butane, 2-methyl-	16.7	J		2.93	ug/Kg
000109-66-0	Pentane	8.40	J		3.30	ug/Kg
000110-54-3	n-Hexane	14.5	J		5.83	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

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/12/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	RINSATE-BLANK	SDG No.:	O3645
Lab Sample ID:	O3645-08	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN078566.D	1		07/18/23 17:16	VN071823

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.14	1.00	ug/L
74-87-3	Chloromethane	1.00	UQ	0.25	1.00	ug/L
75-01-4	Vinyl Chloride	1.00	U	0.25	1.00	ug/L
74-83-9	Bromomethane	5.00	U	1.60	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.28	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.13	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.21	1.00	ug/L
67-64-1	Acetone	5.00	U	1.20	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.27	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.14	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.36	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.00	U	0.17	1.00	ug/L
75-34-3	1,1-Dichloroethane	1.00	U	0.16	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.60	5.00	ug/L
78-93-3	2-Butanone	5.00	U	1.20	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.13	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.00	U	0.20	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.14	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.14	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	UQ	0.14	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.16	1.00	ug/L
71-43-2	Benzene	1.00	U	0.12	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.16	1.00	ug/L
79-01-6	Trichloroethene	1.00	U	0.26	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	UQ	0.15	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.15	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.74	5.00	ug/L
108-88-3	Toluene	1.00	U	0.14	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	UQ	0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	UQ	0.15	1.00	ug/L

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/12/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	RINSATE-BLANK	SDG No.:	O3645
Lab Sample ID:	O3645-08	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN078566.D	1		07/18/23 17:16	VN071823

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	1.00	UQ	0.13	1.00	ug/L
591-78-6	2-Hexanone	5.00	UQ	0.98	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	UQ	0.15	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	UQ	0.13	1.00	ug/L
127-18-4	Tetrachloroethene	1.00	UQ	0.17	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.12	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	UQ	0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	UQ	0.31	2.00	ug/L
1330-20-7	Total Xylenes	3.00	UQ	0.46	3.00	ug/L
95-47-6	o-Xylene	1.00	UQ	0.15	1.00	ug/L
100-42-5	Styrene	1.00	UQ	0.13	1.00	ug/L
75-25-2	Bromoform	1.00	UQ	0.15	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.15	1.00	ug/L
103-65-1	n-propylbenzene	1.00	U	0.15	1.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	1.00	U	0.17	1.00	ug/L
98-06-6	tert-Butylbenzene	1.00	U	0.16	1.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	1.00	U	0.16	1.00	ug/L
135-98-8	sec-Butylbenzene	1.00	U	0.16	1.00	ug/L
99-87-6	p-Isopropyltoluene	1.00	U	0.16	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.23	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.24	1.00	ug/L
104-51-8	n-Butylbenzene	1.00	U	0.24	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.17	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.43	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.43	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.55	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.8		74 - 125	102%	SPK: 50
1868-53-7	Dibromofluoromethane	54.3		75 - 124	109%	SPK: 50
2037-26-5	Toluene-d8	44.7		86 - 113	89%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.9		64 - 133	102%	SPK: 50
INTERNAL STANDARDS						

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/12/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	RINSATE-BLANK	SDG No.:	O3645
Lab Sample ID:	O3645-08	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN078566.D	1		07/18/23 17:16	VN071823

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
363-72-4	Pentafluorobenzene	401000	8.235			
540-36-3	1,4-Difluorobenzene	753000	9.106			
3114-55-4	Chlorobenzene-d5	694000	11.87			
3855-82-1	1,4-Dichlorobenzene-d4	243000	13.8			

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

Surrogate Summary

SDG No.: O3645

Client: LaBella Associates P.C.

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
O3645-01	SB-02-(3-5)	1,2-Dichloroethane-d4	50	57.1	114	50	163
		Dibromofluoromethane	50	53.0	106	54	147
		Toluene-d8	50	55.3	111	58	134
		4-Bromofluorobenzene	50	55.2	110	30	143
O3645-02	SB-04-(1-5)	1,2-Dichloroethane-d4	50	58.0	116	50	163
		Dibromofluoromethane	50	53.8	108	54	147
		Toluene-d8	50	55.7	111	58	134
		4-Bromofluorobenzene	50	56.7	113	30	143
O3645-03	SB-07-(1-3)	1,2-Dichloroethane-d4	50	58.1	116	50	163
		Dibromofluoromethane	50	52.3	105	54	147
		Toluene-d8	50	55.2	110	58	134
		4-Bromofluorobenzene	50	50.1	100	30	143
O3645-04	SB-08-(0.5-2.0)	1,2-Dichloroethane-d4	50	65.5	131	50	163
		Dibromofluoromethane	50	55.4	111	54	147
		Toluene-d8	50	54.8	110	58	134
		4-Bromofluorobenzene	50	40.7	81	30	143
O3645-06	SB-10-(0.5-2.0)	1,2-Dichloroethane-d4	50	67.2	134	50	163
		Dibromofluoromethane	50	54.5	109	54	147
		Toluene-d8	50	56.1	112	58	134
		4-Bromofluorobenzene	50	53.5	107	30	143
O3645-07	DUP	1,2-Dichloroethane-d4	50	63.8	128	50	163
		Dibromofluoromethane	50	51.5	103	54	147
		Toluene-d8	50	55.8	112	58	134
		4-Bromofluorobenzene	50	49.0	98	30	143
O3645-09MS	SB-04-(1-5)MS	1,2-Dichloroethane-d4	50	56.7	113	50	163
		Dibromofluoromethane	50	54.7	109	54	147
		Toluene-d8	50	50.8	102	58	134
		4-Bromofluorobenzene	50	50.0	100	30	143
O3645-10MSD	SB-04-(1-5)MSD	1,2-Dichloroethane-d4	50	51.1	102	50	163
		Dibromofluoromethane	50	51.1	102	54	147
		Toluene-d8	50	48.0	96	58	134
		4-Bromofluorobenzene	50	47.3	95	30	143
VD0717SBL01	VD0717SBL01	1,2-Dichloroethane-d4	50	55.7	111	50	163
		Dibromofluoromethane	50	51.9	104	54	147
		Toluene-d8	50	55.0	110	58	134
		4-Bromofluorobenzene	50	54.6	109	30	143
VD0717SBS01	VD0717SBS01	1,2-Dichloroethane-d4	50	49.1	98	50	163
		Dibromofluoromethane	50	49.0	98	54	147
		Toluene-d8	50	47.3	95	58	134
		4-Bromofluorobenzene	50	48.4	97	30	143
VD0718SBL01	VD0718SBL01	1,2-Dichloroethane-d4	50	63.4	127	50	163
		Dibromofluoromethane	50	52.5	105	54	147
		Toluene-d8	50	55.2	110	58	134
		4-Bromofluorobenzene	50	49.1	98	30	143
VD0718SBS01	VD0718SBS01	1,2-Dichloroethane-d4	50	45.4	91	50	163
		Dibromofluoromethane	50	46.8	94	54	147
		Toluene-d8	50	44.8	90	58	134
		4-Bromofluorobenzene	50	45.5	91	30	143

Surrogate Summary

SDG No.: O3645

Client: LaBella Associates P.C.

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
O3645-08	RINSATE-BLANK	1,2-Dichloroethane-d4	50	50.8	102	74	125
		Dibromofluoromethane	50	54.3	109	75	124
		Toluene-d8	50	44.7	89	86	113
		4-Bromofluorobenzene	50	50.9	102	64	133
VN0718WBL01	VN0718WBL01	1,2-Dichloroethane-d4	50	48.5	97	74	125
		Dibromofluoromethane	50	56.7	113	75	124
		Toluene-d8	50	46.5	93	86	113
		4-Bromofluorobenzene	50	53.0	106	64	133
VN0718WBS02	VN0718WBS02	1,2-Dichloroethane-d4	50	54.0	108	74	125
		Dibromofluoromethane	50	53.4	107	75	124
		Toluene-d8	50	50.4	101	86	113
		4-Bromofluorobenzene	50	50.6	101	64	133
VN0718WBSD0	VN0718WBSD02	1,2-Dichloroethane-d4	50	50.0	100	74	125
		Dibromofluoromethane	50	50.5	101	75	124
		Toluene-d8	50	48.6	97	86	113
		4-Bromofluorobenzene	50	48.4	97	64	133

CHEMTECH

Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: O3645

Client: LaBella Associates P.C.

Analytical Method: SW8260D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Lab Sample ID : O3645-09MS		**Client Sample ID : SB-04-(1-5)MS**						**Datafile :**	VD076762.D		
Dichlorodifluoromethane	44.4	0	41.9	ug/Kg	94				40	150	
Chloromethane	44.4	0	47.4	ug/Kg	107				24	175	
Vinyl chloride	44.4	0	44.9	ug/Kg	101				21	175	
Bromomethane	44.4	0	37.3	ug/Kg	84				46	150	
Chloroethane	44.4	0	45.5	ug/Kg	102				30	175	
Trichlorofluoromethane	44.4	0	42.7	ug/Kg	96				53	150	
1,1,2-Trichlorotrifluoroethane	44.4	0	42.5	ug/Kg	96				60	135	
1,1-Dichloroethene	44.4	0	42.7	ug/Kg	96				63	136	
Acetone	220	0	230	ug/Kg	105				41	175	
Carbon disulfide	44.4	0	43.3	ug/Kg	98				45	126	
Methyl tert-butyl Ether	44.4	0	45.5	ug/Kg	102				56	175	
Methyl Acetate	44.4	0	60.5	ug/Kg	136				32	175	
Methylene Chloride	44.4	0	54.3	ug/Kg	122				59	175	
trans-1,2-Dichloroethene	44.4	0	44.4	ug/Kg	100				63	137	
1,1-Dichloroethane	44.4	0	46.9	ug/Kg	106				62	154	
Cyclohexane	44.4	1.80	39.9	ug/Kg	86				41	131	
2-Butanone	220	0	230	ug/Kg	105				48	174	
Carbon Tetrachloride	44.4	0	43.7	ug/Kg	98				48	149	
cis-1,2-Dichloroethene	44.4	0	45.8	ug/Kg	103				59	153	
Bromochloromethane	44.4	0	47.5	ug/Kg	107				54	172	
Chloroform	44.4	0	47.0	ug/Kg	106				60	159	
1,1,1-Trichloroethane	44.4	0	46.3	ug/Kg	104				60	149	
Methylcyclohexane	44.4	0	41.4	ug/Kg	93				19	135	
Benzene	44.4	0	45.1	ug/Kg	102				59	140	
1,2-Dichloroethane	44.4	0	47.8	ug/Kg	108				63	153	
Trichloroethene	44.4	0	43.1	ug/Kg	97				45	154	
1,2-Dichloropropane	44.4	0	46.2	ug/Kg	104				67	141	
Bromodichloromethane	44.4	0	44.9	ug/Kg	101				54	160	
4-Methyl-2-Pentanone	220	0	230	ug/Kg	105				54	164	
Toluene	44.4	0	44.5	ug/Kg	100				61	134	
t-1,3-Dichloropropene	44.4	0	44.2	ug/Kg	100				47	155	
cis-1,3-Dichloropropene	44.4	0	44.0	ug/Kg	99				56	141	
1,1,2-Trichloroethane	44.4	0	46.2	ug/Kg	104				69	148	
2-Hexanone	220	0	220	ug/Kg	100				43	164	
Dibromochloromethane	44.4	0	46.3	ug/Kg	104				65	143	
1,2-Dibromoethane	44.4	0	45.3	ug/Kg	102				63	144	
Tetrachloroethene	44.4	0	62.9	ug/Kg	142				27	175	
Chlorobenzene	44.4	0	44.1	ug/Kg	99				66	127	
Ethyl Benzene	44.4	0	43.8	ug/Kg	99				54	134	
m/p-Xylenes	88.8	0	87.8	ug/Kg	99				51	137	
o-Xylene	44.4	0	44.1	ug/Kg	99				57	139	
Styrene	44.4	0	43.6	ug/Kg	98				47	136	
Bromoform	44.4	0	44.6	ug/Kg	100				64	144	
Isopropylbenzene	44.4	0	45.6	ug/Kg	103				44	160	
1,1,2,2-Tetrachloroethane	44.4	0	48.0	ug/Kg	108				18	175	
N-propylbenzene	44.4	0	44.3	ug/Kg	100				10	173	
1,3,5-Trimethylbenzene	44.4	0	45.6	ug/Kg	103				10	175	

CHEMTECH

Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: O3645

Client: LaBella Associates P.C.

Analytical Method: SW8260D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
tert-Butylbenzene	44.4	0	44.6	ug/Kg	100				10	173	
1,2,4-Trimethylbenzene	44.4	0	45.5	ug/Kg	102				10	175	
Sec-butylbenzene	44.4	0	43.5	ug/Kg	98				10	172	
p-Isopropyltoluene	44.4	0	42.0	ug/Kg	95				26	153	
1,3-Dichlorobenzene	44.4	0	42.7	ug/Kg	96				55	131	
1,4-Dichlorobenzene	44.4	0	43.3	ug/Kg	98				57	129	
n-Butylbenzene	44.4	0	37.7	ug/Kg	85				10	175	
1,2-Dichlorobenzene	44.4	0	43.7	ug/Kg	98				54	140	
1,2-Dibromo-3-Chloropropane	44.4	0	48.7	ug/Kg	110				46	175	
1,2,4-Trichlorobenzene	44.4	0	33.5	ug/Kg	75				12	127	
1,2,3-Trichlorobenzene	44.4	0	33.8	ug/Kg	76				10	160	

CHEMTECH

Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: O3645

Client: LaBella Associates P.C.

Analytical Method: SW8260D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Lab Sample ID : O3645-10MSD	**Client Sample ID : SB-04-(1-5)MSD**							**Datafile :** VD076763.D			
Dichlorodifluoromethane	43.4	0	49.8	ug/Kg	115		19		40	150	20
Chloromethane	43.4	0	56.0	ug/Kg	129		19		24	175	20
Vinyl chloride	43.4	0	53.4	ug/Kg	123		20		21	175	20
Bromomethane	43.4	0	45.9	ug/Kg	106		23	*	46	150	20
Chloroethane	43.4	0	52.9	ug/Kg	122		17		30	175	20
Trichlorofluoromethane	43.4	0	51.0	ug/Kg	118		20		53	150	20
1,1,2-Trichlorotrifluoroethane	43.4	0	50.1	ug/Kg	115		19		60	135	20
1,1-Dichloroethene	43.4	0	50.4	ug/Kg	116		19		63	136	20
Acetone	220	0	260	ug/Kg	118		12		41	175	20
Carbon disulfide	43.4	0	49.7	ug/Kg	115		16		45	126	20
Methyl tert-butyl Ether	43.4	0	55.2	ug/Kg	127		22	*	56	175	20
Methyl Acetate	43.4	0	69.8	ug/Kg	161		17		32	175	20
Methylene Chloride	43.4	0	62.5	ug/Kg	144		16		59	175	20
trans-1,2-Dichloroethene	43.4	0	50.9	ug/Kg	117		16		63	137	20
1,1-Dichloroethane	43.4	0	54.8	ug/Kg	126		18		62	154	20
Cyclohexane	43.4	1.80	44.2	ug/Kg	98		13		41	131	20
2-Butanone	220	0	270	ug/Kg	123		16		48	174	20
Carbon Tetrachloride	43.4	0	51.3	ug/Kg	118		18		48	149	20
cis-1,2-Dichloroethene	43.4	0	55.3	ug/Kg	127		21	*	59	153	20
Bromochloromethane	43.4	0	44.7	ug/Kg	103		4		54	172	20
Chloroform	43.4	0	56.3	ug/Kg	130		20		60	159	20
1,1,1-Trichloroethane	43.4	0	53.4	ug/Kg	123		17		60	149	20
Methylcyclohexane	43.4	0	43.4	ug/Kg	100		7		19	135	20
Benzene	43.4	0	52.7	ug/Kg	121		18		59	140	20
1,2-Dichloroethane	43.4	0	55.7	ug/Kg	128		18		63	153	20
Trichloroethene	43.4	0	49.2	ug/Kg	113		15		45	154	20
1,2-Dichloropropane	43.4	0	53.9	ug/Kg	124		18		67	141	20
Bromodichloromethane	43.4	0	54.1	ug/Kg	125		21	*	54	160	20
4-Methyl-2-Pentanone	220	0	260	ug/Kg	118		12		54	164	20
Toluene	43.4	0	51.1	ug/Kg	118		16		61	134	20
t-1,3-Dichloropropene	43.4	0	51.2	ug/Kg	118		17		47	155	20
cis-1,3-Dichloropropene	43.4	0	52.2	ug/Kg	120		19		56	141	20
1,1,2-Trichloroethane	43.4	0	52.8	ug/Kg	122		16		69	148	20
2-Hexanone	220	0	260	ug/Kg	118		17		43	164	20
Dibromochloromethane	43.4	0	55.0	ug/Kg	127		19		65	143	20
1,2-Dibromoethane	43.4	0	52.1	ug/Kg	120		16		63	144	20
Tetrachloroethene	43.4	0	69.4	ug/Kg	160		12		27	175	20
Chlorobenzene	43.4	0	50.3	ug/Kg	116		15		66	127	20
Ethyl Benzene	43.4	0	49.4	ug/Kg	114		14		54	134	20
m/p-Xylenes	86.8	0	98.8	ug/Kg	114		14		51	137	20
o-Xylene	43.4	0	50.8	ug/Kg	117		16		57	139	20
Styrene	43.4	0	50.7	ug/Kg	117		17		47	136	20
Bromoform	43.4	0	54.5	ug/Kg	126		22	*	64	144	20
Isopropylbenzene	43.4	0	50.8	ug/Kg	117		13		44	160	20
1,1,2,2-Tetrachloroethane	43.4	0	53.6	ug/Kg	124		13		18	175	20
N-propylbenzene	43.4	0	49.1	ug/Kg	113		13		10	173	20
1,3,5-Trimethylbenzene	43.4	0	50.2	ug/Kg	116		12		10	175	20

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Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: O3645

Client: LaBella Associates P.C.

Analytical Method: SW8260D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
tert-Butylbenzene	43.4	0	49.2	ug/Kg	113		12		10	173	20
1,2,4-Trimethylbenzene	43.4	0	50.7	ug/Kg	117		13		10	175	20
Sec-butylbenzene	43.4	0	46.8	ug/Kg	108		10		10	172	20
p-Isopropyltoluene	43.4	0	46.3	ug/Kg	107		12		26	153	20
1,3-Dichlorobenzene	43.4	0	48.5	ug/Kg	112		15		55	131	20
1,4-Dichlorobenzene	43.4	0	48.5	ug/Kg	112		14		57	129	20
n-Butylbenzene	43.4	0	41.2	ug/Kg	95		11		10	175	20
1,2-Dichlorobenzene	43.4	0	50.5	ug/Kg	116		17		54	140	20
1,2-Dibromo-3-Chloropropane	43.4	0	53.3	ug/Kg	123		11		46	175	20
1,2,4-Trichlorobenzene	43.4	0	40.5	ug/Kg	93		21	*	12	127	20
1,2,3-Trichlorobenzene	43.4	0	40.6	ug/Kg	94		21	*	10	160	20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: O3645

Client: LaBella Associates P.C.

Analytical Method: SW8260D **Datafile :** VD076747.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VD0717SBS01	Dichlorodifluoromethane	20	22.5	ug/Kg	113			64	136	
	Chloromethane	20	19.5	ug/Kg	98			70	130	
	Vinyl chloride	20	19.7	ug/Kg	99			72	129	
	Bromomethane	20	19.1	ug/Kg	96			58	141	
	Chloroethane	20	19.1	ug/Kg	96			69	130	
	Trichlorofluoromethane	20	21.9	ug/Kg	110			69	134	
	1,1,2-Trichlorotrifluoroethane	20	21.9	ug/Kg	110			81	123	
	1,1-Dichloroethene	20	20.5	ug/Kg	103			79	121	
	Acetone	100	100	ug/Kg	100			60	131	
	Carbon disulfide	20	20.5	ug/Kg	103			45	154	
	Methyl tert-butyl Ether	20	20.0	ug/Kg	100			77	129	
	Methyl Acetate	20	20.5	ug/Kg	103			69	149	
	Methylene Chloride	20	17.3	ug/Kg	86			39	175	
	trans-1,2-Dichloroethene	20	20.2	ug/Kg	101			80	123	
	1,1-Dichloroethane	20	20.1	ug/Kg	101			82	123	
	Cyclohexane	20	20.4	ug/Kg	102			76	122	
	2-Butanone	100	100	ug/Kg	100			69	131	
	Carbon Tetrachloride	20	21.4	ug/Kg	107			76	129	
	cis-1,2-Dichloroethene	20	20.8	ug/Kg	104			82	123	
	Bromochloromethane	20	23.7	ug/Kg	119			62	134	
	Chloroform	20	20.6	ug/Kg	103			82	125	
	1,1,1-Trichloroethane	20	22.5	ug/Kg	113			80	126	
	Methylcyclohexane	20	20.8	ug/Kg	104			77	123	
	Benzene	20	20.6	ug/Kg	103			84	121	
	1,2-Dichloroethane	20	21.4	ug/Kg	107			81	126	
	Trichloroethene	20	21.1	ug/Kg	106			83	122	
	1,2-Dichloropropane	20	20.7	ug/Kg	104			83	122	
	Bromodichloromethane	20	20.5	ug/Kg	103			82	123	
	4-Methyl-2-Pentanone	100	99.9	ug/Kg	100			70	135	
	Toluene	20	20.4	ug/Kg	102			83	122	
	t-1,3-Dichloropropene	20	19.8	ug/Kg	99			78	124	
	cis-1,3-Dichloropropene	20	19.8	ug/Kg	99			81	122	
	1,1,2-Trichloroethane	20	21.0	ug/Kg	105			82	125	
	2-Hexanone	100	99.6	ug/Kg	100			66	138	
	Dibromochloromethane	20	21.4	ug/Kg	107			79	125	
	1,2-Dibromoethane	20	20.6	ug/Kg	103			80	125	
	Tetrachloroethene	20	23.3	ug/Kg	117			83	125	
	Chlorobenzene	20	21.1	ug/Kg	106			84	122	
	Ethyl Benzene	20	20.7	ug/Kg	104			82	124	
	m/p-Xylenes	40	41.3	ug/Kg	103			83	124	
	o-Xylene	20	20.5	ug/Kg	103			83	123	
	Styrene	20	20.7	ug/Kg	104			82	124	
	Bromoform	20	22.4	ug/Kg	112			75	127	
	Isopropylbenzene	20	21.1	ug/Kg	106			82	124	
	1,1,2,2-Tetrachloroethane	20	20.5	ug/Kg	103			77	127	
	N-propylbenzene	20	21.1	ug/Kg	106			81	123	
	1,3,5-Trimethylbenzene	20	21.0	ug/Kg	105			82	124	
	tert-Butylbenzene	20	21.3	ug/Kg	106			81	125	
	1,2,4-Trimethylbenzene	20	20.3	ug/Kg	102			81	125	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: O3645

Client: LaBella Associates P.C.

Analytical Method: SW8260D **Datafile :** VD076747.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VD0717SBS01	Sec-butylbenzene	20	21.4	ug/Kg	107			80	124	
	p-Isopropyltoluene	20	21.1	ug/Kg	106			81	125	
	1,3-Dichlorobenzene	20	21.5	ug/Kg	108			83	122	
	1,4-Dichlorobenzene	20	21.3	ug/Kg	106			84	121	
	n-Butylbenzene	20	21.2	ug/Kg	106			78	126	
	1,2-Dichlorobenzene	20	21.6	ug/Kg	108			83	124	
	1,2-Dibromo-3-Chloropropane	20	20.1	ug/Kg	101			66	134	
	1,2,4-Trichlorobenzene	20	20.8	ug/Kg	104			78	127	
	1,2,3-Trichlorobenzene	20	21.3	ug/Kg	106			70	137	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: O3645

Client: LaBella Associates P.C.

Analytical Method: SW8260D **Datafile :** VD076768.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VD0718SBS01	Dichlorodifluoromethane	20	23.8	ug/Kg	119			64	136	
	Chloromethane	20	19.2	ug/Kg	96			70	130	
	Vinyl chloride	20	20.0	ug/Kg	100			72	129	
	Bromomethane	20	20.5	ug/Kg	103			58	141	
	Chloroethane	20	20.2	ug/Kg	101			69	130	
	Trichlorofluoromethane	20	22.6	ug/Kg	113			69	134	
	1,1,2-Trichlorotrifluoroethane	20	22.6	ug/Kg	113			81	123	
	1,1-Dichloroethene	20	20.8	ug/Kg	104			79	121	
	Acetone	100	92.4	ug/Kg	92			60	131	
	Carbon disulfide	20	19.6	ug/Kg	98			45	154	
	Methyl tert-butyl Ether	20	18.5	ug/Kg	93			77	129	
	Methyl Acetate	20	20.4	ug/Kg	102			69	149	
	Methylene Chloride	20	21.1	ug/Kg	106			39	175	
	trans-1,2-Dichloroethene	20	19.8	ug/Kg	99			80	123	
	1,1-Dichloroethane	20	20.4	ug/Kg	102			82	123	
	Cyclohexane	20	20.8	ug/Kg	104			76	122	
	2-Butanone	100	98.9	ug/Kg	99			69	131	
	Carbon Tetrachloride	20	21.9	ug/Kg	110			76	129	
	cis-1,2-Dichloroethene	20	19.7	ug/Kg	99			82	123	
	Bromochloromethane	20	22.2	ug/Kg	111			62	134	
	Chloroform	20	20.1	ug/Kg	101			82	125	
	1,1,1-Trichloroethane	20	21.3	ug/Kg	106			80	126	
	Methylcyclohexane	20	22.0	ug/Kg	110			77	123	
	Benzene	20	20.3	ug/Kg	102			84	121	
	1,2-Dichloroethane	20	20.8	ug/Kg	104			81	126	
	Trichloroethene	20	20.0	ug/Kg	100			83	122	
	1,2-Dichloropropane	20	20.6	ug/Kg	103			83	122	
	Bromodichloromethane	20	20.3	ug/Kg	102			82	123	
	4-Methyl-2-Pentanone	100	94.2	ug/Kg	94			70	135	
	Toluene	20	20.0	ug/Kg	100			83	122	
	t-1,3-Dichloropropene	20	19.0	ug/Kg	95			78	124	
	cis-1,3-Dichloropropene	20	19.3	ug/Kg	97			81	122	
	1,1,2-Trichloroethane	20	20.2	ug/Kg	101			82	125	
	2-Hexanone	100	93.8	ug/Kg	94			66	138	
	Dibromochloromethane	20	20.1	ug/Kg	101			79	125	
	1,2-Dibromoethane	20	19.6	ug/Kg	98			80	125	
	Tetrachloroethene	20	23.8	ug/Kg	119			83	125	
	Chlorobenzene	20	20.9	ug/Kg	104			84	122	
	Ethyl Benzene	20	21.1	ug/Kg	106			82	124	
	m/p-Xylenes	40	41.7	ug/Kg	104			83	124	
	o-Xylene	20	20.4	ug/Kg	102			83	123	
	Styrene	20	20.9	ug/Kg	104			82	124	
	Bromoform	20	20.9	ug/Kg	104			75	127	
	Isopropylbenzene	20	20.7	ug/Kg	104			82	124	
	1,1,2,2-Tetrachloroethane	20	20.4	ug/Kg	102			77	127	
	N-propylbenzene	20	21.1	ug/Kg	106			81	123	
	1,3,5-Trimethylbenzene	20	20.8	ug/Kg	104			82	124	
	tert-Butylbenzene	20	21.0	ug/Kg	105			81	125	
	1,2,4-Trimethylbenzene	20	20.2	ug/Kg	101			81	125	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: O3645

Client: LaBella Associates P.C.

Analytical Method: SW8260D **Datafile :** VD076768.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VD0718SBS01	Sec-butylbenzene	20	21.7	ug/Kg	109			80	124	
	p-Isopropyltoluene	20	21.2	ug/Kg	106			81	125	
	1,3-Dichlorobenzene	20	19.9	ug/Kg	100			83	122	
	1,4-Dichlorobenzene	20	20.5	ug/Kg	103			84	121	
	n-Butylbenzene	20	21.2	ug/Kg	106			78	126	
	1,2-Dichlorobenzene	20	19.8	ug/Kg	99			83	124	
	1,2-Dibromo-3-Chloropropane	20	19.7	ug/Kg	99			66	134	
	1,2,4-Trichlorobenzene	20	19.3	ug/Kg	97			78	127	
	1,2,3-Trichlorobenzene	20	19.2	ug/Kg	96			70	137	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: O3645
Client: LaBella Associates P.C.
Analytical Method: SW8260-Low **Datafile :** VN078554.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VN0718WBS02	Dichlorodifluoromethane	20	16.7	ug/L	84			69	116	
	Chloromethane	20	21.5	ug/L	108			65	116	
	Vinyl chloride	20	19.3	ug/L	97			65	117	
	Bromomethane	20	17.9	ug/L	90			42	173	
	Chloroethane	20	17.7	ug/L	89			44	165	
	Trichlorofluoromethane	20	18.2	ug/L	91			73	115	
	1,1,2-Trichlorotrifluoroethane	20	19.3	ug/L	97			80	112	
	1,1-Dichloroethene	20	18.1	ug/L	91			74	110	
	Acetone	100	99.4	ug/L	99			60	125	
	Carbon disulfide	20	15.7	ug/L	79			64	112	
	Methyl tert-butyl Ether	20	19.9	ug/L	100			78	114	
	Methyl Acetate	20	20.2	ug/L	101			67	125	
	Methylene Chloride	20	19.9	ug/L	100			72	114	
	trans-1,2-Dichloroethene	20	18.3	ug/L	92			75	108	
	1,1-Dichloroethane	20	18.8	ug/L	94			78	112	
	Cyclohexane	20	17.9	ug/L	90			75	110	
	2-Butanone	100	100	ug/L	100			65	122	
	Carbon Tetrachloride	20	19.0	ug/L	95			77	113	
	cis-1,2-Dichloroethene	20	19.0	ug/L	95			77	110	
	Bromochloromethane	20	20.4	ug/L	102			70	124	
	Chloroform	20	20.0	ug/L	100			79	113	
	1,1,1-Trichloroethane	20	19.3	ug/L	97			80	108	
	Methylcyclohexane	20	18.6	ug/L	93			72	115	
	Benzene	20	19.5	ug/L	98			82	109	
	1,2-Dichloroethane	20	20.4	ug/L	102			80	115	
	Trichloroethene	20	18.5	ug/L	93			77	113	
	1,2-Dichloropropane	20	20.1	ug/L	101			83	111	
	Bromodichloromethane	20	20.4	ug/L	102			83	110	
	4-Methyl-2-Pentanone	100	100	ug/L	100			74	118	
	Toluene	20	19.9	ug/L	100			82	110	
	t-1,3-Dichloropropene	20	20.1	ug/L	101			79	110	
	cis-1,3-Dichloropropene	20	20.3	ug/L	102			82	110	
	1,1,2-Trichloroethane	20	22.0	ug/L	110			83	112	
	2-Hexanone	100	100	ug/L	100			73	117	
	Dibromochloromethane	20	20.4	ug/L	102			82	110	
	1,2-Dibromoethane	20	20.2	ug/L	101			81	110	
	Tetrachloroethene	20	17.6	ug/L	88			67	123	
	Chlorobenzene	20	19.3	ug/L	97			82	109	
	Ethyl Benzene	20	18.7	ug/L	94			83	109	
	m/p-Xylenes	40	40.8	ug/L	102			82	110	
	o-Xylene	20	17.7	ug/L	89			83	109	
	Styrene	20	18.1	ug/L	91			80	111	
	Bromoform	20	20.3	ug/L	102			79	109	
	Isopropylbenzene	20	19.0	ug/L	95			83	112	
	1,1,2,2-Tetrachloroethane	20	21.7	ug/L	109			76	118	
	N-propylbenzene	20	19.2	ug/L	96			83	112	
	1,3,5-Trimethylbenzene	20	19.2	ug/L	96			85	112	
	tert-Butylbenzene	20	19.4	ug/L	97			83	112	
	1,2,4-Trimethylbenzene	20	19.8	ug/L	99			85	111	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: O3645

Client: LaBella Associates P.C.

Analytical Method: SW8260-Low **Datafile :** VN078554.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VN0718WBS02	Sec-butylbenzene	20	19.2	ug/L	96			81	114	
	p-Isopropyltoluene	20	19.1	ug/L	96			78	116	
	1,3-Dichlorobenzene	20	19.0	ug/L	95			82	108	
	1,4-Dichlorobenzene	20	18.2	ug/L	91			82	107	
	n-Butylbenzene	20	19.2	ug/L	96			75	115	
	1,2-Dichlorobenzene	20	19.2	ug/L	96			82	109	
	1,2-Dibromo-3-Chloropropane	20	20.5	ug/L	103			68	112	
	1,2,4-Trichlorobenzene	20	15.6	ug/L	78			74	114	
	1,2,3-Trichlorobenzene	20	16.3	ug/L	81			77	113	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: O3645

Client: LaBella Associates P.C.

Analytical Method: SW8260-Low **Datafile :** VN078556.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual		Limits Low	Limits High	Limits RPD
VN0718WBSD02	Dichlorodifluoromethane	20	18.6	ug/L	93	10			69	116	20
	Chloromethane	20	23.5	ug/L	117	8	*		65	116	20
	Vinyl chloride	20	21.7	ug/L	109	12			65	117	20
	Bromomethane	20	18.1	ug/L	91	1			42	173	20
	Chloroethane	20	20.8	ug/L	104	16			44	165	20
	Trichlorofluoromethane	20	20.9	ug/L	104	13			73	115	20
	1,1,2-Trichlorotrifluoroethane	20	21.3	ug/L	106	9			80	112	20
	1,1-Dichloroethene	20	21.0	ug/L	105	14			74	110	20
	Acetone	100	120	ug/L	120	19			60	125	20
	Carbon disulfide	20	17.4	ug/L	87	10			64	112	20
	Methyl tert-butyl Ether	20	21.1	ug/L	106	6			78	114	20
	Methyl Acetate	20	21.3	ug/L	106	5			67	125	20
	Methylene Chloride	20	21.9	ug/L	110	10			72	114	20
	trans-1,2-Dichloroethene	20	20.2	ug/L	101	9			75	108	20
	1,1-Dichloroethane	20	21.5	ug/L	108	14			78	112	20
	Cyclohexane	20	19.8	ug/L	99	10			75	110	20
	2-Butanone	100	110	ug/L	110	10			65	122	20
	Carbon Tetrachloride	20	21.7	ug/L	109	14			77	113	20
	cis-1,2-Dichloroethene	20	20.9	ug/L	104	9			77	110	20
	Bromochloromethane	20	20.3	ug/L	102	0			70	124	20
	Chloroform	20	22.0	ug/L	110	10			79	113	20
	1,1,1-Trichloroethane	20	21.7	ug/L	109	12	*		80	108	20
	Methylcyclohexane	20	20.9	ug/L	104	11			72	115	20
	Benzene	20	21.6	ug/L	108	10			82	109	20
	1,2-Dichloroethane	20	21.4	ug/L	107	5			80	115	20
	Trichloroethene	20	21.1	ug/L	106	13			77	113	20
	1,2-Dichloropropane	20	22.3	ug/L	112	10	*		83	111	20
	Bromodichloromethane	20	21.6	ug/L	108	6			83	110	20
	4-Methyl-2-Pentanone	100	110	ug/L	110	10			74	118	20
	Toluene	20	22.0	ug/L	110	10			82	110	20
	t-1,3-Dichloropropene	20	24.3	ug/L	121	18	*		79	110	20
	cis-1,3-Dichloropropene	20	22.5	ug/L	113	10	*		82	110	20
	1,1,2-Trichloroethane	20	25.8	ug/L	129	16	*		83	112	20
	2-Hexanone	100	150	ug/L	150	40	*	*	73	117	20
	Dibromochloromethane	20	27.5	ug/L	138	30	*	*	82	110	20
	1,2-Dibromoethane	20	25.3	ug/L	127	23	*	*	81	110	20
	Tetrachloroethene	20	26.3	ug/L	132	40	*	*	67	123	20
	Chlorobenzene	20	21.8	ug/L	109	12			82	109	20
	Ethyl Benzene	20	22.0	ug/L	110	16	*		83	109	20
	m/p-Xylenes	40	45.2	ug/L	113	10	*		82	110	20
	o-Xylene	20	22.2	ug/L	111	22	*	*	83	109	20
	Styrene	20	23.1	ug/L	116	24	*	*	80	111	20
	Bromoform	20	23.5	ug/L	117	14	*		79	109	20
	Isopropylbenzene	20	20.8	ug/L	104	9			83	112	20
	1,1,2,2-Tetrachloroethane	20	22.5	ug/L	113	4			76	118	20
	N-propylbenzene	20	21.6	ug/L	108	12			83	112	20
	1,3,5-Trimethylbenzene	20	21.5	ug/L	108	12			85	112	20
	tert-Butylbenzene	20	21.5	ug/L	108	11			83	112	20
	1,2,4-Trimethylbenzene	20	21.6	ug/L	108	9			85	111	20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: O3645

Client: LaBella Associates P.C.

Analytical Method: SW8260-Low **Datafile :** VN078556.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VN0718WBSD02	Sec-butylbenzene	20	21.4	ug/L	107	11		81	114	20
	p-Isopropyltoluene	20	22.1	ug/L	111	14		78	116	20
	1,3-Dichlorobenzene	20	21.4	ug/L	107	12		82	108	20
	1,4-Dichlorobenzene	20	20.3	ug/L	102	11		82	107	20
	n-Butylbenzene	20	21.7	ug/L	109	13		75	115	20
	1,2-Dichlorobenzene	20	21.2	ug/L	106	10		82	109	20
	1,2-Dibromo-3-Chloropropane	20	20.1	ug/L	101	2		68	112	20
	1,2,4-Trichlorobenzene	20	16.8	ug/L	84	7		74	114	20
	1,2,3-Trichlorobenzene	20	17.3	ug/L	86	6		77	113	20

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VD0717SBL01

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM Case No.: O3645 SAS No.: O3645 SDG NO.: O3645

Lab File ID: VD076746.D Lab Sample ID: VD0717SBL01

Date Analyzed: 07/17/2023 Time Analyzed: 11:15

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) Y

Instrument ID: MSVOA_D

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VD0717SBS01	VD0717SBS01	VD076747.D	07/17/2023
SB-02-(3-5)	O3645-01	VD076751.D	07/17/2023
SB-04-(1-5)	O3645-02	VD076752.D	07/17/2023
SB-07-(1-3)	O3645-03	VD076753.D	07/17/2023
SB-08-(0.5-2.0)	O3645-04	VD076754.D	07/17/2023
SB-10-(0.5-2.0)	O3645-06	VD076756.D	07/17/2023
SB-04-(1-5)MS	O3645-09MS	VD076762.D	07/17/2023
SB-04-(1-5)MSD	O3645-10MSD	VD076763.D	07/17/2023

COMMENTS:

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VD0718SBL01

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM Case No.: O3645 SAS No.: O3645 SDG NO.: O3645

Lab File ID: VD076767.D Lab Sample ID: VD0718SBL01

Date Analyzed: 07/18/2023 Time Analyzed: 10:09

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) Y

Instrument ID: MSVOA_D

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VD0718SBS01	VD0718SBS01	VD076768.D	07/18/2023
DUP	O3645-07	VD076777.D	07/18/2023

COMMENTS:

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VN0718WBL01

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM Case No.: O3645 SAS No.: O3645 SDG NO.: O3645

Lab File ID: VN078552.D Lab Sample ID: VN0718WBL01

Date Analyzed: 07/18/2023 Time Analyzed: 11:27

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

Instrument ID: MSVOA_N

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VN0718WBS02	VN0718WBS02	VN078554.D	07/18/2023
VN0718WBSD02	VN0718WBSD02	VN078556.D	07/18/2023
RINSATE-BLANK	O3645-08	VN078566.D	07/18/2023

COMMENTS:

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM Case No.: O3645 SAS No.: O3645 SDG NO.: O3645

Lab File ID: VD076734.D BFB Injection Date: 07/14/2023

Instrument ID: MSVOA_D BFB Injection Time: 10:44

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.7
75	30.0 - 60.0% of mass 95	54.4
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.3
173	Less than 2.0% of mass 174	0.9 (1) 1
174	50.0 - 100.0% of mass 95	88.6
175	5.0 - 9.0% of mass 174	6.5 (7.3) 1
176	95.0 - 101.0% of mass 174	85.3 (96.3) 1
177	5.0 - 9.0% of mass 176	5.7 (6.7) 2

1-Value is % mass 174 2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC020	VSTDICC020	VD076737.D	07/14/2023	12:50
VSTDICCC050	VSTDICCC050	VD076738.D	07/14/2023	13:21
VSTDICC100	VSTDICC100	VD076739.D	07/14/2023	13:49
VSTDICC150	VSTDICC150	VD076740.D	07/14/2023	14:17
VSTDICC005	VSTDICC005	VD076742.D	07/14/2023	15:57

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM Case No.: O3645 SAS No.: O3645 SDG NO.: O3645

Lab File ID: VD076744.D BFB Injection Date: 07/17/2023

Instrument ID: MSVOA_D BFB Injection Time: 09:08

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.6
75	30.0 - 60.0% of mass 95	50.9
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	1 (1.2) 1
174	50.0 - 100.0% of mass 95	85.9
175	5.0 - 9.0% of mass 174	5.9 (6.9) 1
176	95.0 - 101.0% of mass 174	83.3 (97) 1
177	5.0 - 9.0% of mass 176	5.7 (6.9) 2

1-Value is % mass 174 2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VD076745.D	07/17/2023	10:19
VD0717SBL01	VD0717SBL01	VD076746.D	07/17/2023	11:15
VD0717SBS01	VD0717SBS01	VD076747.D	07/17/2023	11:46
SB-02-(3-5)	O3645-01	VD076751.D	07/17/2023	13:36
SB-04-(1-5)	O3645-02	VD076752.D	07/17/2023	14:04
SB-07-(1-3)	O3645-03	VD076753.D	07/17/2023	14:32
SB-08-(0.5-2.0)	O3645-04	VD076754.D	07/17/2023	15:01
SB-10-(0.5-2.0)	O3645-06	VD076756.D	07/17/2023	15:57
SB-04-(1-5)MS	O3645-09MS	VD076762.D	07/17/2023	18:48
SB-04-(1-5)MSD	O3645-10MSD	VD076763.D	07/17/2023	19:17

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM Case No.: O3645 SAS No.: O3645 SDG NO.: O3645

Lab File ID: VD076765.D BFB Injection Date: 07/18/2023

Instrument ID: MSVOA_D BFB Injection Time: 08:41

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.7
75	30.0 - 60.0% of mass 95	53
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	85.3
175	5.0 - 9.0% of mass 174	6.6 (7.7) 1
176	95.0 - 101.0% of mass 174	83 (97.3) 1
177	5.0 - 9.0% of mass 176	5.5 (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:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VD076766.D	07/18/2023	09:13
VD0718SBL01	VD0718SBL01	VD076767.D	07/18/2023	10:09
VD0718SBS01	VD0718SBS01	VD076768.D	07/18/2023	10:36
DUP	O3645-07	VD076777.D	07/18/2023	14:49

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM Case No.: O3645 SAS No.: O3645 SDG NO.: O3645

Lab File ID: VN078448.D BFB Injection Date: 07/10/2023

Instrument ID: MSVOA_N BFB Injection Time: 11:48

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.6
75	30.0 - 60.0% of mass 95	54.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.2
173	Less than 2.0% of mass 174	0.6 (0.8) 1
174	50.0 - 100.0% of mass 95	77.9
175	5.0 - 9.0% of mass 174	6.1 (7.8) 1
176	95.0 - 101.0% of mass 174	74.2 (95.3) 1
177	5.0 - 9.0% of mass 176	4.8 (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:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC100	VSTDICC100	VN078449.D	07/10/2023	12:21
VSTDICCC050	VSTDICCC050	VN078450.D	07/10/2023	12:46
VSTDICC040	VSTDICC040	VN078451.D	07/10/2023	13:10
VSTDICC020	VSTDICC020	VN078452.D	07/10/2023	13:34
VSTDICC005	VSTDICC005	VN078453.D	07/10/2023	13:58
VSTDICC001	VSTDICC001	VN078454.D	07/10/2023	14:46

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM Case No.: O3645 SAS No.: O3645 SDG NO.: O3645

Lab File ID: VN078549.D BFB Injection Date: 07/18/2023

Instrument ID: MSVOA_N BFB Injection Time: 09:55

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.6
75	30.0 - 60.0% of mass 95	51.8
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.4
173	Less than 2.0% of mass 174	0.8 (0.9) 1
174	50.0 - 100.0% of mass 95	79.5
175	5.0 - 9.0% of mass 174	6.4 (8.1) 1
176	95.0 - 101.0% of mass 174	77.3 (97.2) 1
177	5.0 - 9.0% of mass 176	4.8 (6.2) 2

1-Value is % mass 174 2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VN078550.D	07/18/2023	10:29
VN0718WBL01	VN0718WBL01	VN078552.D	07/18/2023	11:27
VN0718WBS02	VN0718WBS02	VN078554.D	07/18/2023	12:25
VN0718WBSD02	VN0718WBSD02	VN078556.D	07/18/2023	13:13
RINSATE-BLANK	O3645-08	VN078566.D	07/18/2023	17:16

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM Case No.: O3645 SAS No.: O3645 SDG NO.: O3645

Lab File ID: VD076745.D Date Analyzed: 07/17/2023

Instrument ID: MSVOA_D Time Analyzed: 10:19

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) Y

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	218354	7.88	378281	8.78	349288	11.58
UPPER LIMIT	436708	8.375	756562	9.275	698576	12.081
LOWER LIMIT	109177	7.375	189141	8.275	174644	11.081
EPA SAMPLE NO.						
SB-02-(3-5)	185224	7.88	404206	8.78	400992	11.58
SB-04-(1-5)	171628	7.88	365685	8.78	369301	11.58
SB-07-(1-3)	150618	7.88	331615	8.78	315417	11.58
SB-08-(0.5-2.0)	151025	7.88	339221	8.78	298250	11.58
SB-10-(0.5-2.0)	133536	7.88	310537	8.78	307752	11.58
SB-04-(1-5)MS	136385	7.87	255118	8.78	231626	11.58
SB-04-(1-5)MSD	154913	7.88	288394	8.78	267266	11.58
VD0717SBL01	186821	7.88	400093	8.78	394027	11.58
VD0717SBS01	204434	7.88	373707	8.78	339998	11.58

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: CHEMTECH Contract: LABE01

Lab Code: CHEM Case No.: O3645 SAS No.: O3645 SDG NO.: O3645

Lab File ID: VD076745.D Date Analyzed: 07/17/2023

Instrument ID: MSVOA_D Time Analyzed: 10:19

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) Y

	IS4 AREA #	RT #				
12 HOUR STD	160211	13.516				
UPPER LIMIT	320422	14.016				
LOWER LIMIT	80105.5	13.016				
EPA SAMPLE NO.						
SB-02-(3-5)	187559	13.52				
SB-04-(1-5)	170608	13.52				
SB-07-(1-3)	128769	13.52				
SB-08-(0.5-2.0)	92343	13.52				
SB-10-(0.5-2.0)	139423	13.52				
SB-04-(1-5)MS	102048	13.52				
SB-04-(1-5)MSD	117737	13.52				
VD0717SBL01	184069	13.52				
VD0717SBS01	159296	13.52				

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.**

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM Case No.: O3645 SAS No.: O3645 SDG NO.: O3645

Lab File ID: VD076766.D Date Analyzed: 07/18/2023

Instrument ID: MSVOA_D Time Analyzed: 09:13

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) Y

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	206994	7.88	357390	8.78	317730	11.58
UPPER LIMIT	413988	8.375	714780	9.275	635460	12.081
LOWER LIMIT	103497	7.375	178695	8.275	158865	11.081
EPA SAMPLE NO.						
DUP	147654	7.88	354882	8.78	328863	11.58
VD0718SBL01	163878	7.88	390285	8.78	373979	11.58
VD0718SBS01	187561	7.88	339123	8.78	301791	11.58

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: CHEMTECH Contract: LABE01

Lab Code: CHEM Case No.: O3645 SAS No.: O3645 SDG NO.: O3645

Lab File ID: VD076766.D Date Analyzed: 07/18/2023

Instrument ID: MSVOA_D Time Analyzed: 09:13

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) Y

	IS4 AREA #	RT #				
12 HOUR STD	151547	13.516				
UPPER LIMIT	303094	14.016				
LOWER LIMIT	75773.5	13.016				
EPA SAMPLE NO.						
DUP	141705	13.52				
VD0718SBL01	159933	13.52				
VD0718SBS01	145517	13.52				

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.

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM Case No.: O3645 SAS No.: O3645 SDG NO.: O3645

Lab File ID: VN078550.D Date Analyzed: 07/18/2023

Instrument ID: MSVOA_N Time Analyzed: 10:29

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

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	483266	8.24	784393	9.11	713959	11.87
UPPER LIMIT	966532	8.735	1568790	9.606	1427920	12.37
LOWER LIMIT	241633	7.735	392197	8.606	356980	11.37
EPA SAMPLE NO.						
RINSATE-BLANK	401033	8.24	752774	9.11	693621	11.87
VN0718WBL01	402785	8.24	700602	9.11	679555	11.87
VN0718WBS02	432335	8.23	742826	9.11	745463	11.87
VN0718WBSD02	485193	8.24	833352	9.11	717025	11.87

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.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM Case No.: O3645 SAS No.: O3645 SDG NO.: O3645

Lab File ID: VN078550.D Date Analyzed: 07/18/2023

Instrument ID: MSVOA_N Time Analyzed: 10:29

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

	IS4 AREA #	RT #				
12 HOUR STD	297857	13.8				
UPPER LIMIT	595714	14.3				
LOWER LIMIT	148929	13.3				
EPA SAMPLE NO.						
RINSATE-BLANK	242621	13.80				
VN0718WBL01	243985	13.79				
VN0718WBS02	251794	13.79				
VN0718WBSD02	285080	13.79				

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

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	
Project:	Mackenna Parcels	Date Received:	
Client Sample ID:	VD0717SBL01	SDG No.:	O3645
Lab Sample ID:	VD0717SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RTX-VMS ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD076746.D	1		07/17/23 11:15	VD071723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	5.00	U	1.60	5.00	ug/Kg
74-87-3	Chloromethane	5.00	U	0.91	5.00	ug/Kg
75-01-4	Vinyl Chloride	5.00	U	0.93	5.00	ug/Kg
74-83-9	Bromomethane	5.00	U	1.20	5.00	ug/Kg
75-00-3	Chloroethane	5.00	U	0.88	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	5.00	U	1.10	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	5.00	U	0.72	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	5.00	U	0.79	5.00	ug/Kg
67-64-1	Acetone	25.0	U	9.40	25.0	ug/Kg
75-15-0	Carbon Disulfide	5.00	U	2.20	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	5.00	U	0.65	5.00	ug/Kg
79-20-9	Methyl Acetate	5.00	U	1.60	5.00	ug/Kg
75-09-2	Methylene Chloride	10.0	U	6.10	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	5.00	U	0.73	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	5.00	U	0.72	5.00	ug/Kg
110-82-7	Cyclohexane	5.00	U	0.70	5.00	ug/Kg
78-93-3	2-Butanone	25.0	U	7.30	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	5.00	U	0.78	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	5.00	U	0.64	5.00	ug/Kg
74-97-5	Bromochloromethane	5.00	U	2.40	5.00	ug/Kg
67-66-3	Chloroform	5.00	U	1.30	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	5.00	U	0.76	5.00	ug/Kg
108-87-2	Methylcyclohexane	5.00	U	3.40	5.00	ug/Kg
71-43-2	Benzene	5.00	U	0.66	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	5.00	U	0.72	5.00	ug/Kg
79-01-6	Trichloroethene	5.00	U	0.66	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	5.00	U	0.59	5.00	ug/Kg
75-27-4	Bromodichloromethane	5.00	U	0.70	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	25.0	U	4.50	25.0	ug/Kg
108-88-3	Toluene	5.00	U	0.65	5.00	ug/Kg
10061-02-6	t-1,3-Dichloropropene	5.00	U	0.77	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	5.00	U	0.74	5.00	ug/Kg

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	
Project:	Mackenna Parcels	Date Received:	
Client Sample ID:	VD0717SBL01	SDG No.:	O3645
Lab Sample ID:	VD0717SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RTX-VMS ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD076746.D	1		07/17/23 11:15	VD071723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
79-00-5	1,1,2-Trichloroethane	5.00	U	0.86	5.00	ug/Kg
591-78-6	2-Hexanone	25.0	U	5.30	25.0	ug/Kg
124-48-1	Dibromochloromethane	5.00	U	0.85	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	5.00	U	0.79	5.00	ug/Kg
127-18-4	Tetrachloroethene	5.00	U	0.77	5.00	ug/Kg
108-90-7	Chlorobenzene	5.00	U	0.63	5.00	ug/Kg
100-41-4	Ethyl Benzene	5.00	U	0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	10.0	U	1.40	10.0	ug/Kg
1330-20-7	Total Xylenes	15.0	U	2.17	15.0	ug/Kg
95-47-6	o-Xylene	5.00	U	0.77	5.00	ug/Kg
100-42-5	Styrene	5.00	U	0.69	5.00	ug/Kg
75-25-2	Bromoform	5.00	U	0.95	5.00	ug/Kg
98-82-8	Isopropylbenzene	5.00	U	0.71	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	5.00	U	1.10	5.00	ug/Kg
103-65-1	n-propylbenzene	5.00	U	0.70	5.00	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	5.00	U	0.64	5.00	ug/Kg
98-06-6	tert-Butylbenzene	5.00	U	0.77	5.00	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	5.00	U	0.67	5.00	ug/Kg
135-98-8	sec-Butylbenzene	5.00	U	0.77	5.00	ug/Kg
99-87-6	p-Isopropyltoluene	5.00	U	0.74	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	5.00	U	0.68	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	5.00	U	0.60	5.00	ug/Kg
104-51-8	n-Butylbenzene	5.00	U	0.68	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	5.00	U	0.60	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	5.00	U	1.20	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	5.00	U	0.61	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	5.00	U	0.63	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	55.7		50 - 163	111%	SPK: 50
1868-53-7	Dibromofluoromethane	51.9		54 - 147	104%	SPK: 50
2037-26-5	Toluene-d8	55.0		58 - 134	110%	SPK: 50
460-00-4	4-Bromofluorobenzene	54.6		30 - 143	109%	SPK: 50
INTERNAL STANDARDS						

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	
Project:	Mackenna Parcels	Date Received:	
Client Sample ID:	VD0717SBL01	SDG No.:	O3645
Lab Sample ID:	VD0717SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RTX-VMS ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD076746.D	1		07/17/23 11:15	VD071723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
363-72-4	Pentafluorobenzene	187000	7.875			
540-36-3	1,4-Difluorobenzene	400000	8.775			
3114-55-4	Chlorobenzene-d5	394000	11.581			
3855-82-1	1,4-Dichlorobenzene-d4	184000	13.516			

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

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	
Project:	Mackenna Parcels	Date Received:	
Client Sample ID:	VD0718SBL01	SDG No.:	O3645
Lab Sample ID:	VD0718SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RTX-VMS ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD076767.D	1		07/18/23 10:09	VD071823

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	5.00	U	1.60	5.00	ug/Kg
74-87-3	Chloromethane	5.00	U	0.91	5.00	ug/Kg
75-01-4	Vinyl Chloride	5.00	U	0.93	5.00	ug/Kg
74-83-9	Bromomethane	5.00	U	1.20	5.00	ug/Kg
75-00-3	Chloroethane	5.00	U	0.88	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	5.00	U	1.10	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	5.00	U	0.72	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	5.00	U	0.79	5.00	ug/Kg
67-64-1	Acetone	25.0	U	9.40	25.0	ug/Kg
75-15-0	Carbon Disulfide	5.00	U	2.20	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	5.00	U	0.65	5.00	ug/Kg
79-20-9	Methyl Acetate	5.00	U	1.60	5.00	ug/Kg
75-09-2	Methylene Chloride	10.0	U	6.10	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	5.00	U	0.73	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	5.00	U	0.72	5.00	ug/Kg
110-82-7	Cyclohexane	5.00	U	0.70	5.00	ug/Kg
78-93-3	2-Butanone	25.0	U	7.30	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	5.00	U	0.78	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	5.00	U	0.64	5.00	ug/Kg
74-97-5	Bromochloromethane	5.00	U	2.40	5.00	ug/Kg
67-66-3	Chloroform	5.00	U	1.30	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	5.00	U	0.76	5.00	ug/Kg
108-87-2	Methylcyclohexane	5.00	U	3.40	5.00	ug/Kg
71-43-2	Benzene	5.00	U	0.66	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	5.00	U	0.72	5.00	ug/Kg
79-01-6	Trichloroethene	5.00	U	0.66	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	5.00	U	0.59	5.00	ug/Kg
75-27-4	Bromodichloromethane	5.00	U	0.70	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	25.0	U	4.50	25.0	ug/Kg
108-88-3	Toluene	5.00	U	0.65	5.00	ug/Kg
10061-02-6	t-1,3-Dichloropropene	5.00	U	0.77	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	5.00	U	0.74	5.00	ug/Kg

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	
Project:	Mackenna Parcels	Date Received:	
Client Sample ID:	VD0718SBL01	SDG No.:	O3645
Lab Sample ID:	VD0718SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RTX-VMS ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD076767.D	1		07/18/23 10:09	VD071823

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
79-00-5	1,1,2-Trichloroethane	5.00	U	0.86	5.00	ug/Kg
591-78-6	2-Hexanone	25.0	U	5.30	25.0	ug/Kg
124-48-1	Dibromochloromethane	5.00	U	0.85	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	5.00	U	0.79	5.00	ug/Kg
127-18-4	Tetrachloroethene	5.00	U	0.77	5.00	ug/Kg
108-90-7	Chlorobenzene	5.00	U	0.63	5.00	ug/Kg
100-41-4	Ethyl Benzene	5.00	U	0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	10.0	U	1.40	10.0	ug/Kg
1330-20-7	Total Xylenes	15.0	U	2.17	15.0	ug/Kg
95-47-6	o-Xylene	5.00	U	0.77	5.00	ug/Kg
100-42-5	Styrene	5.00	U	0.69	5.00	ug/Kg
75-25-2	Bromoform	5.00	U	0.95	5.00	ug/Kg
98-82-8	Isopropylbenzene	5.00	U	0.71	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	5.00	U	1.10	5.00	ug/Kg
103-65-1	n-propylbenzene	5.00	U	0.70	5.00	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	5.00	U	0.64	5.00	ug/Kg
98-06-6	tert-Butylbenzene	5.00	U	0.77	5.00	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	5.00	U	0.67	5.00	ug/Kg
135-98-8	sec-Butylbenzene	5.00	U	0.77	5.00	ug/Kg
99-87-6	p-Isopropyltoluene	5.00	U	0.74	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	5.00	U	0.68	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	5.00	U	0.60	5.00	ug/Kg
104-51-8	n-Butylbenzene	5.00	U	0.68	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	5.00	U	0.60	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	5.00	U	1.20	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	5.00	U	0.61	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	5.00	U	0.63	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	63.4		50 - 163	127%	SPK: 50
1868-53-7	Dibromofluoromethane	52.6		54 - 147	105%	SPK: 50
2037-26-5	Toluene-d8	55.2		58 - 134	110%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.1		30 - 143	98%	SPK: 50
INTERNAL STANDARDS						

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	
Project:	Mackenna Parcels	Date Received:	
Client Sample ID:	VD0718SBL01	SDG No.:	O3645
Lab Sample ID:	VD0718SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RTX-VMS ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD076767.D	1		07/18/23 10:09	VD071823

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
363-72-4	Pentafluorobenzene	164000	7.875			
540-36-3	1,4-Difluorobenzene	390000	8.775			
3114-55-4	Chlorobenzene-d5	374000	11.581			
3855-82-1	1,4-Dichlorobenzene-d4	160000	13.516			

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

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	
Project:	Mackenna Parcels	Date Received:	
Client Sample ID:	VN0718WBL01	SDG No.:	O3645
Lab Sample ID:	VN0718WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN078552.D	1		07/18/23 11:27	VN071823

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.14	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.25	1.00	ug/L
75-01-4	Vinyl Chloride	1.00	U	0.25	1.00	ug/L
74-83-9	Bromomethane	5.00	U	1.60	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.28	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.13	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.21	1.00	ug/L
67-64-1	Acetone	5.00	U	1.20	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.27	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.14	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.36	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.00	U	0.17	1.00	ug/L
75-34-3	1,1-Dichloroethane	1.00	U	0.16	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.60	5.00	ug/L
78-93-3	2-Butanone	5.00	U	1.20	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.13	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.00	U	0.20	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.14	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.14	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.14	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.16	1.00	ug/L
71-43-2	Benzene	1.00	U	0.12	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.16	1.00	ug/L
79-01-6	Trichloroethene	1.00	U	0.26	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.15	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.15	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.74	5.00	ug/L
108-88-3	Toluene	1.00	U	0.14	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.15	1.00	ug/L

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	
Project:	Mackenna Parcels	Date Received:	
Client Sample ID:	VN0718WBL01	SDG No.:	O3645
Lab Sample ID:	VN0718WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN078552.D	1		07/18/23 11:27	VN071823

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	1.00	U	0.13	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	0.98	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.15	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.13	1.00	ug/L
127-18-4	Tetrachloroethene	1.00	U	0.17	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.12	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.31	2.00	ug/L
1330-20-7	Total Xylenes	3.00	U	0.46	3.00	ug/L
95-47-6	o-Xylene	1.00	U	0.15	1.00	ug/L
100-42-5	Styrene	1.00	U	0.13	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.15	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.15	1.00	ug/L
103-65-1	n-propylbenzene	1.00	U	0.15	1.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	1.00	U	0.17	1.00	ug/L
98-06-6	tert-Butylbenzene	1.00	U	0.16	1.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	1.00	U	0.16	1.00	ug/L
135-98-8	sec-Butylbenzene	1.00	U	0.16	1.00	ug/L
99-87-6	p-Isopropyltoluene	1.00	U	0.16	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.23	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.24	1.00	ug/L
104-51-8	n-Butylbenzene	1.00	U	0.24	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.17	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.43	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.43	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.55	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.5		74 - 125	97%	SPK: 50
1868-53-7	Dibromofluoromethane	56.7		75 - 124	113%	SPK: 50
2037-26-5	Toluene-d8	46.5		86 - 113	93%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.0		64 - 133	106%	SPK: 50
INTERNAL STANDARDS						

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	
Project:	Mackenna Parcels	Date Received:	
Client Sample ID:	VN0718WBL01	SDG No.:	O3645
Lab Sample ID:	VN0718WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN078552.D	1		07/18/23 11:27	VN071823

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
363-72-4	Pentafluorobenzene	403000	8.236			
540-36-3	1,4-Difluorobenzene	701000	9.106			
3114-55-4	Chlorobenzene-d5	680000	11.871			
3855-82-1	1,4-Dichlorobenzene-d4	244000	13.794			

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

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	
Project:	Mackenna Parcels	Date Received:	
Client Sample ID:	VD0717SBS01	SDG No.:	O3645
Lab Sample ID:	VD0717SBS01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RTX-VMS ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD076747.D	1		07/17/23 11:46	VD071723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	22.5		1.60	5.00	ug/Kg
74-87-3	Chloromethane	19.5		0.91	5.00	ug/Kg
75-01-4	Vinyl Chloride	19.7		0.93	5.00	ug/Kg
74-83-9	Bromomethane	19.1		1.20	5.00	ug/Kg
75-00-3	Chloroethane	19.1		0.88	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	21.9		1.10	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	21.9		0.72	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	20.5		0.79	5.00	ug/Kg
67-64-1	Acetone	100		9.40	25.0	ug/Kg
75-15-0	Carbon Disulfide	20.5		2.20	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	20.0		0.65	5.00	ug/Kg
79-20-9	Methyl Acetate	20.5		1.60	5.00	ug/Kg
75-09-2	Methylene Chloride	17.3		6.10	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	20.2		0.73	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	20.1		0.72	5.00	ug/Kg
110-82-7	Cyclohexane	20.4		0.70	5.00	ug/Kg
78-93-3	2-Butanone	100		7.30	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	21.4		0.78	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	20.8		0.64	5.00	ug/Kg
74-97-5	Bromochloromethane	23.7		2.40	5.00	ug/Kg
67-66-3	Chloroform	20.6		1.30	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	22.5		0.76	5.00	ug/Kg
108-87-2	Methylcyclohexane	20.8		3.40	5.00	ug/Kg
71-43-2	Benzene	20.6		0.66	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	21.4		0.72	5.00	ug/Kg
79-01-6	Trichloroethene	21.1		0.66	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	20.7		0.59	5.00	ug/Kg
75-27-4	Bromodichloromethane	20.5		0.70	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	99.9		4.50	25.0	ug/Kg
108-88-3	Toluene	20.4		0.65	5.00	ug/Kg
10061-02-6	t-1,3-Dichloropropene	19.8		0.77	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	19.8		0.74	5.00	ug/Kg

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	
Project:	Mackenna Parcels	Date Received:	
Client Sample ID:	VD0717SBS01	SDG No.:	O3645
Lab Sample ID:	VD0717SBS01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RTX-VMS ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD076747.D	1		07/17/23 11:46	VD071723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
79-00-5	1,1,2-Trichloroethane	21.0		0.86	5.00	ug/Kg
591-78-6	2-Hexanone	99.6		5.30	25.0	ug/Kg
124-48-1	Dibromochloromethane	21.4		0.85	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	20.6		0.79	5.00	ug/Kg
127-18-4	Tetrachloroethene	23.3		0.77	5.00	ug/Kg
108-90-7	Chlorobenzene	21.1		0.63	5.00	ug/Kg
100-41-4	Ethyl Benzene	20.7		0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	41.3		1.40	10.0	ug/Kg
1330-20-7	Total Xylenes	61.8		2.17	15.0	ug/Kg
95-47-6	o-Xylene	20.5		0.77	5.00	ug/Kg
100-42-5	Styrene	20.7		0.69	5.00	ug/Kg
75-25-2	Bromoform	22.4		0.95	5.00	ug/Kg
98-82-8	Isopropylbenzene	21.1		0.71	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	20.5		1.10	5.00	ug/Kg
103-65-1	n-propylbenzene	21.1		0.70	5.00	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	21.0		0.64	5.00	ug/Kg
98-06-6	tert-Butylbenzene	21.3		0.77	5.00	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	20.3		0.67	5.00	ug/Kg
135-98-8	sec-Butylbenzene	21.4		0.77	5.00	ug/Kg
99-87-6	p-Isopropyltoluene	21.1		0.74	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	21.5		0.68	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	21.3		0.60	5.00	ug/Kg
104-51-8	n-Butylbenzene	21.2		0.68	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	21.6		0.60	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	20.1		1.20	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	20.8		0.61	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	21.3		0.63	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.1		50 - 163	98%	SPK: 50
1868-53-7	Dibromofluoromethane	49.0		54 - 147	98%	SPK: 50
2037-26-5	Toluene-d8	47.3		58 - 134	95%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.4		30 - 143	97%	SPK: 50
INTERNAL STANDARDS						

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	
Project:	Mackenna Parcels	Date Received:	
Client Sample ID:	VD0717SBS01	SDG No.:	O3645
Lab Sample ID:	VD0717SBS01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RTX-VMS ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD076747.D	1		07/17/23 11:46	VD071723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
363-72-4	Pentafluorobenzene	204000	7.875			
540-36-3	1,4-Difluorobenzene	374000	8.775			
3114-55-4	Chlorobenzene-d5	340000	11.581			
3855-82-1	1,4-Dichlorobenzene-d4	159000	13.516			

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

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	
Project:	Mackenna Parcels	Date Received:	
Client Sample ID:	VD0718SBS01	SDG No.:	O3645
Lab Sample ID:	VD0718SBS01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RTX-VMS ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD076768.D	1		07/18/23 10:36	VD071823

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	23.8		1.60	5.00	ug/Kg
74-87-3	Chloromethane	19.2		0.91	5.00	ug/Kg
75-01-4	Vinyl Chloride	20.0		0.93	5.00	ug/Kg
74-83-9	Bromomethane	20.5		1.20	5.00	ug/Kg
75-00-3	Chloroethane	20.2		0.88	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	22.6		1.10	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	22.6		0.72	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	20.8		0.79	5.00	ug/Kg
67-64-1	Acetone	92.4		9.40	25.0	ug/Kg
75-15-0	Carbon Disulfide	19.6		2.20	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	18.5		0.65	5.00	ug/Kg
79-20-9	Methyl Acetate	20.4		1.60	5.00	ug/Kg
75-09-2	Methylene Chloride	21.1		6.10	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	19.8		0.73	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	20.4		0.72	5.00	ug/Kg
110-82-7	Cyclohexane	20.8		0.70	5.00	ug/Kg
78-93-3	2-Butanone	98.9		7.30	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	21.9		0.78	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	19.7		0.64	5.00	ug/Kg
74-97-5	Bromochloromethane	22.2		2.40	5.00	ug/Kg
67-66-3	Chloroform	20.1		1.30	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	21.3		0.76	5.00	ug/Kg
108-87-2	Methylcyclohexane	22.0		3.40	5.00	ug/Kg
71-43-2	Benzene	20.3		0.66	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	20.8		0.72	5.00	ug/Kg
79-01-6	Trichloroethene	20.0		0.66	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	20.6		0.59	5.00	ug/Kg
75-27-4	Bromodichloromethane	20.3		0.70	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	94.2		4.50	25.0	ug/Kg
108-88-3	Toluene	20.0		0.65	5.00	ug/Kg
10061-02-6	t-1,3-Dichloropropene	19.0		0.77	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	19.3		0.74	5.00	ug/Kg

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	
Project:	Mackenna Parcels	Date Received:	
Client Sample ID:	VD0718SBS01	SDG No.:	O3645
Lab Sample ID:	VD0718SBS01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RTX-VMS ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD076768.D	1		07/18/23 10:36	VD071823

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
79-00-5	1,1,2-Trichloroethane	20.2		0.86	5.00	ug/Kg
591-78-6	2-Hexanone	93.8		5.30	25.0	ug/Kg
124-48-1	Dibromochloromethane	20.1		0.85	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	19.6		0.79	5.00	ug/Kg
127-18-4	Tetrachloroethene	23.8		0.77	5.00	ug/Kg
108-90-7	Chlorobenzene	20.9		0.63	5.00	ug/Kg
100-41-4	Ethyl Benzene	21.1		0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	41.7		1.40	10.0	ug/Kg
1330-20-7	Total Xylenes	62.1		2.17	15.0	ug/Kg
95-47-6	o-Xylene	20.4		0.77	5.00	ug/Kg
100-42-5	Styrene	20.9		0.69	5.00	ug/Kg
75-25-2	Bromoform	20.9		0.95	5.00	ug/Kg
98-82-8	Isopropylbenzene	20.7		0.71	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	20.4		1.10	5.00	ug/Kg
103-65-1	n-propylbenzene	21.1		0.70	5.00	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	20.8		0.64	5.00	ug/Kg
98-06-6	tert-Butylbenzene	21.0		0.77	5.00	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	20.2		0.67	5.00	ug/Kg
135-98-8	sec-Butylbenzene	21.7		0.77	5.00	ug/Kg
99-87-6	p-Isopropyltoluene	21.2		0.74	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	19.9		0.68	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	20.5		0.60	5.00	ug/Kg
104-51-8	n-Butylbenzene	21.2		0.68	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	19.8		0.60	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	19.7		1.20	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	19.3		0.61	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	19.2		0.63	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	45.4		50 - 163	91%	SPK: 50
1868-53-7	Dibromofluoromethane	46.8		54 - 147	94%	SPK: 50
2037-26-5	Toluene-d8	44.8		58 - 134	90%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.5		30 - 143	91%	SPK: 50
INTERNAL STANDARDS						

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	
Project:	Mackenna Parcels	Date Received:	
Client Sample ID:	VD0718SBS01	SDG No.:	O3645
Lab Sample ID:	VD0718SBS01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RTX-VMS ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD076768.D	1		07/18/23 10:36	VD071823

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
363-72-4	Pentafluorobenzene	188000	7.875			
540-36-3	1,4-Difluorobenzene	339000	8.775			
3114-55-4	Chlorobenzene-d5	302000	11.581			
3855-82-1	1,4-Dichlorobenzene-d4	146000	13.516			

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

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	
Project:	Mackenna Parcels	Date Received:	
Client Sample ID:	VN0718WBS02	SDG No.:	O3645
Lab Sample ID:	VN0718WBS02	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN078554.D	1		07/18/23 12:25	VN071823

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	16.7		0.14	1.00	ug/L
74-87-3	Chloromethane	21.5		0.25	1.00	ug/L
75-01-4	Vinyl Chloride	19.3		0.25	1.00	ug/L
74-83-9	Bromomethane	17.9		1.60	5.00	ug/L
75-00-3	Chloroethane	17.7		0.28	1.00	ug/L
75-69-4	Trichlorofluoromethane	18.2		0.13	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	19.3		0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	18.1		0.21	1.00	ug/L
67-64-1	Acetone	99.4		1.20	5.00	ug/L
75-15-0	Carbon Disulfide	15.7		0.27	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	19.9		0.14	1.00	ug/L
79-20-9	Methyl Acetate	20.2		0.36	1.00	ug/L
75-09-2	Methylene Chloride	19.9		0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	18.3		0.17	1.00	ug/L
75-34-3	1,1-Dichloroethane	18.8		0.16	1.00	ug/L
110-82-7	Cyclohexane	17.9		1.60	5.00	ug/L
78-93-3	2-Butanone	100		1.20	5.00	ug/L
56-23-5	Carbon Tetrachloride	19.0		0.13	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	19.0		0.20	1.00	ug/L
74-97-5	Bromochloromethane	20.4		0.14	1.00	ug/L
67-66-3	Chloroform	20.0		0.14	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	19.3		0.14	1.00	ug/L
108-87-2	Methylcyclohexane	18.6		0.16	1.00	ug/L
71-43-2	Benzene	19.5		0.12	1.00	ug/L
107-06-2	1,2-Dichloroethane	20.4		0.16	1.00	ug/L
79-01-6	Trichloroethene	18.5		0.26	1.00	ug/L
78-87-5	1,2-Dichloropropane	20.1		0.15	1.00	ug/L
75-27-4	Bromodichloromethane	20.4		0.15	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	100		0.74	5.00	ug/L
108-88-3	Toluene	19.9		0.14	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	20.1		0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	20.3		0.15	1.00	ug/L

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	
Project:	Mackenna Parcels	Date Received:	
Client Sample ID:	VN0718WBS02	SDG No.:	O3645
Lab Sample ID:	VN0718WBS02	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN078554.D	1		07/18/23 12:25	VN071823

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	22.0		0.13	1.00	ug/L
591-78-6	2-Hexanone	100		0.98	5.00	ug/L
124-48-1	Dibromochloromethane	20.4		0.15	1.00	ug/L
106-93-4	1,2-Dibromoethane	20.2		0.13	1.00	ug/L
127-18-4	Tetrachloroethene	17.6		0.17	1.00	ug/L
108-90-7	Chlorobenzene	19.3		0.12	1.00	ug/L
100-41-4	Ethyl Benzene	18.7		0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	40.8		0.31	2.00	ug/L
1330-20-7	Total Xylenes	58.5		0.46	3.00	ug/L
95-47-6	o-Xylene	17.7		0.15	1.00	ug/L
100-42-5	Styrene	18.1		0.13	1.00	ug/L
75-25-2	Bromoform	20.3		0.15	1.00	ug/L
98-82-8	Isopropylbenzene	19.0		0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	21.7		0.15	1.00	ug/L
103-65-1	n-propylbenzene	19.2		0.15	1.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	19.2		0.17	1.00	ug/L
98-06-6	tert-Butylbenzene	19.4		0.16	1.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	19.8		0.16	1.00	ug/L
135-98-8	sec-Butylbenzene	19.2		0.16	1.00	ug/L
99-87-6	p-Isopropyltoluene	19.1		0.16	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	19.0		0.23	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	18.2		0.24	1.00	ug/L
104-51-8	n-Butylbenzene	19.2		0.24	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	19.2		0.17	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	20.5		0.43	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	15.6		0.43	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	16.3		0.55	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	54.0		74 - 125	108%	SPK: 50
1868-53-7	Dibromofluoromethane	53.4		75 - 124	107%	SPK: 50
2037-26-5	Toluene-d8	50.4		86 - 113	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.7		64 - 133	101%	SPK: 50
INTERNAL STANDARDS						

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	
Project:	Mackenna Parcels	Date Received:	
Client Sample ID:	VN0718WBS02	SDG No.:	O3645
Lab Sample ID:	VN0718WBS02	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN078554.D	1		07/18/23 12:25	VN071823

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
363-72-4	Pentafluorobenzene	432000	8.23			
540-36-3	1,4-Difluorobenzene	743000	9.106			
3114-55-4	Chlorobenzene-d5	745000	11.871			
3855-82-1	1,4-Dichlorobenzene-d4	252000	13.794			

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

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	
Project:	Mackenna Parcels	Date Received:	
Client Sample ID:	VN0718WBSD02	SDG No.:	O3645
Lab Sample ID:	VN0718WBSD02	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN078556.D	1		07/18/23 13:13	VN071823

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	18.6		0.14	1.00	ug/L
74-87-3	Chloromethane	23.5		0.25	1.00	ug/L
75-01-4	Vinyl Chloride	21.7		0.25	1.00	ug/L
74-83-9	Bromomethane	18.1		1.60	5.00	ug/L
75-00-3	Chloroethane	20.8		0.28	1.00	ug/L
75-69-4	Trichlorofluoromethane	20.9		0.13	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	21.3		0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	21.0		0.21	1.00	ug/L
67-64-1	Acetone	120		1.20	5.00	ug/L
75-15-0	Carbon Disulfide	17.4		0.27	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	21.1		0.14	1.00	ug/L
79-20-9	Methyl Acetate	21.3		0.36	1.00	ug/L
75-09-2	Methylene Chloride	21.9		0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	20.2		0.17	1.00	ug/L
75-34-3	1,1-Dichloroethane	21.5		0.16	1.00	ug/L
110-82-7	Cyclohexane	19.8		1.60	5.00	ug/L
78-93-3	2-Butanone	110		1.20	5.00	ug/L
56-23-5	Carbon Tetrachloride	21.7		0.13	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	20.9		0.20	1.00	ug/L
74-97-5	Bromochloromethane	20.3		0.14	1.00	ug/L
67-66-3	Chloroform	22.0		0.14	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	21.7		0.14	1.00	ug/L
108-87-2	Methylcyclohexane	20.9		0.16	1.00	ug/L
71-43-2	Benzene	21.6		0.12	1.00	ug/L
107-06-2	1,2-Dichloroethane	21.4		0.16	1.00	ug/L
79-01-6	Trichloroethene	21.1		0.26	1.00	ug/L
78-87-5	1,2-Dichloropropane	22.3		0.15	1.00	ug/L
75-27-4	Bromodichloromethane	21.6		0.15	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	110		0.74	5.00	ug/L
108-88-3	Toluene	22.0		0.14	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	24.3		0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	22.5		0.15	1.00	ug/L

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	
Project:	Mackenna Parcels	Date Received:	
Client Sample ID:	VN0718WBSD02	SDG No.:	O3645
Lab Sample ID:	VN0718WBSD02	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN078556.D	1		07/18/23 13:13	VN071823

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	25.8		0.13	1.00	ug/L
591-78-6	2-Hexanone	150		0.98	5.00	ug/L
124-48-1	Dibromochloromethane	27.5		0.15	1.00	ug/L
106-93-4	1,2-Dibromoethane	25.3		0.13	1.00	ug/L
127-18-4	Tetrachloroethene	26.3		0.17	1.00	ug/L
108-90-7	Chlorobenzene	21.8		0.12	1.00	ug/L
100-41-4	Ethyl Benzene	22.0		0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	45.2		0.31	2.00	ug/L
1330-20-7	Total Xylenes	67.4		0.46	3.00	ug/L
95-47-6	o-Xylene	22.2		0.15	1.00	ug/L
100-42-5	Styrene	23.1		0.13	1.00	ug/L
75-25-2	Bromoform	23.5		0.15	1.00	ug/L
98-82-8	Isopropylbenzene	20.8		0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	22.5		0.15	1.00	ug/L
103-65-1	n-propylbenzene	21.6		0.15	1.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	21.5		0.17	1.00	ug/L
98-06-6	tert-Butylbenzene	21.5		0.16	1.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	21.6		0.16	1.00	ug/L
135-98-8	sec-Butylbenzene	21.4		0.16	1.00	ug/L
99-87-6	p-Isopropyltoluene	22.1		0.16	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	21.4		0.23	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	20.3		0.24	1.00	ug/L
104-51-8	n-Butylbenzene	21.7		0.24	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	21.2		0.17	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	20.1		0.43	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	16.8		0.43	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	17.3		0.55	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.0		74 - 125	100%	SPK: 50
1868-53-7	Dibromofluoromethane	50.5		75 - 124	101%	SPK: 50
2037-26-5	Toluene-d8	48.6		86 - 113	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.4		64 - 133	97%	SPK: 50
INTERNAL STANDARDS						

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	
Project:	Mackenna Parcels	Date Received:	
Client Sample ID:	VN0718WBSD02	SDG No.:	O3645
Lab Sample ID:	VN0718WBSD02	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN078556.D	1		07/18/23 13:13	VN071823

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
363-72-4	Pentafluorobenzene	485000	8.235			
540-36-3	1,4-Difluorobenzene	833000	9.106			
3114-55-4	Chlorobenzene-d5	717000	11.871			
3855-82-1	1,4-Dichlorobenzene-d4	285000	13.794			

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

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/12/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-04-(1-5)MS	SDG No.:	O3645
Lab Sample ID:	O3645-09MS	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	91.3
Sample Wt/Vol:	6.17 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RTX-VMS ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD076762.D	1		07/17/23 18:48	VD071723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	41.9		1.40	4.40	ug/Kg
74-87-3	Chloromethane	47.4		0.81	4.40	ug/Kg
75-01-4	Vinyl Chloride	44.9		0.83	4.40	ug/Kg
74-83-9	Bromomethane	37.3		1.10	4.40	ug/Kg
75-00-3	Chloroethane	45.5		0.78	4.40	ug/Kg
75-69-4	Trichlorofluoromethane	42.7		0.94	4.40	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	42.5		0.64	4.40	ug/Kg
75-35-4	1,1-Dichloroethene	42.7		0.70	4.40	ug/Kg
67-64-1	Acetone	230		8.30	22.2	ug/Kg
75-15-0	Carbon Disulfide	43.3		2.00	4.40	ug/Kg
1634-04-4	Methyl tert-butyl Ether	45.5		0.58	4.40	ug/Kg
79-20-9	Methyl Acetate	60.5		1.40	4.40	ug/Kg
75-09-2	Methylene Chloride	54.3		5.40	8.90	ug/Kg
156-60-5	trans-1,2-Dichloroethene	44.4		0.65	4.40	ug/Kg
75-34-3	1,1-Dichloroethane	46.9		0.64	4.40	ug/Kg
110-82-7	Cyclohexane	39.9		0.62	4.40	ug/Kg
78-93-3	2-Butanone	230		6.50	22.2	ug/Kg
56-23-5	Carbon Tetrachloride	43.7		0.69	4.40	ug/Kg
156-59-2	cis-1,2-Dichloroethene	45.8		0.57	4.40	ug/Kg
74-97-5	Bromochloromethane	47.5		2.10	4.40	ug/Kg
67-66-3	Chloroform	47.0		1.20	4.40	ug/Kg
71-55-6	1,1,1-Trichloroethane	46.3		0.67	4.40	ug/Kg
108-87-2	Methylcyclohexane	41.4		3.00	4.40	ug/Kg
71-43-2	Benzene	45.1		0.59	4.40	ug/Kg
107-06-2	1,2-Dichloroethane	47.8		0.64	4.40	ug/Kg
79-01-6	Trichloroethene	43.1		0.59	4.40	ug/Kg
78-87-5	1,2-Dichloropropane	46.2		0.52	4.40	ug/Kg
75-27-4	Bromodichloromethane	44.9		0.62	4.40	ug/Kg
108-10-1	4-Methyl-2-Pentanone	230		4.00	22.2	ug/Kg
108-88-3	Toluene	44.5		0.58	4.40	ug/Kg
10061-02-6	t-1,3-Dichloropropene	44.2		0.68	4.40	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	44.0		0.66	4.40	ug/Kg

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/12/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-04-(1-5)MS	SDG No.:	O3645
Lab Sample ID:	O3645-09MS	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	91.3
Sample Wt/Vol:	6.17 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RTX-VMS ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD076762.D	1		07/17/23 18:48	VD071723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
79-00-5	1,1,2-Trichloroethane	46.2		0.76	4.40	ug/Kg
591-78-6	2-Hexanone	220		4.70	22.2	ug/Kg
124-48-1	Dibromochloromethane	46.3		0.75	4.40	ug/Kg
106-93-4	1,2-Dibromoethane	45.3		0.70	4.40	ug/Kg
127-18-4	Tetrachloroethene	62.9		0.68	4.40	ug/Kg
108-90-7	Chlorobenzene	44.1		0.56	4.40	ug/Kg
100-41-4	Ethyl Benzene	43.8		0.59	4.40	ug/Kg
179601-23-1	m/p-Xylenes	87.8		1.30	8.90	ug/Kg
1330-20-7	Total Xylenes	132		1.98	13.3	ug/Kg
95-47-6	o-Xylene	44.1		0.68	4.40	ug/Kg
100-42-5	Styrene	43.6		0.61	4.40	ug/Kg
75-25-2	Bromoform	44.6		0.84	4.40	ug/Kg
98-82-8	Isopropylbenzene	45.6		0.63	4.40	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	48.0		0.95	4.40	ug/Kg
103-65-1	n-propylbenzene	44.3		0.62	4.40	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	45.6		0.57	4.40	ug/Kg
98-06-6	tert-Butylbenzene	44.6		0.68	4.40	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	45.5		0.59	4.40	ug/Kg
135-98-8	sec-Butylbenzene	43.5		0.68	4.40	ug/Kg
99-87-6	p-Isopropyltoluene	42.0		0.66	4.40	ug/Kg
541-73-1	1,3-Dichlorobenzene	42.7		0.60	4.40	ug/Kg
106-46-7	1,4-Dichlorobenzene	43.3		0.53	4.40	ug/Kg
104-51-8	n-Butylbenzene	37.7		0.60	4.40	ug/Kg
95-50-1	1,2-Dichlorobenzene	43.7		0.53	4.40	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	48.7		1.10	4.40	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	33.5		0.54	4.40	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	33.8		0.56	4.40	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	56.7		50 - 163	113%	SPK: 50
1868-53-7	Dibromofluoromethane	54.7		54 - 147	109%	SPK: 50
2037-26-5	Toluene-d8	50.8		58 - 134	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.0		30 - 143	100%	SPK: 50
INTERNAL STANDARDS						

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/12/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-04-(1-5)MS	SDG No.:	O3645
Lab Sample ID:	O3645-09MS	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	91.3
Sample Wt/Vol:	6.17 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RTX-VMS ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD076762.D	1		07/17/23 18:48	VD071723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
363-72-4	Pentafluorobenzene	136000	7.869			
540-36-3	1,4-Difluorobenzene	255000	8.775			
3114-55-4	Chlorobenzene-d5	232000	11.58			
3855-82-1	1,4-Dichlorobenzene-d4	102000	13.516			

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

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/12/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-04-(1-5)MSD	SDG No.:	O3645
Lab Sample ID:	O3645-10MSD	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	91.3
Sample Wt/Vol:	6.31 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RTX-VMS ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD076763.D	1		07/17/23 19:17	VD071723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	49.8		1.40	4.30	ug/Kg
74-87-3	Chloromethane	56.0		0.79	4.30	ug/Kg
75-01-4	Vinyl Chloride	53.4		0.81	4.30	ug/Kg
74-83-9	Bromomethane	45.9		1.10	4.30	ug/Kg
75-00-3	Chloroethane	52.9		0.76	4.30	ug/Kg
75-69-4	Trichlorofluoromethane	51.0		0.92	4.30	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	50.1		0.62	4.30	ug/Kg
75-35-4	1,1-Dichloroethene	50.4		0.69	4.30	ug/Kg
67-64-1	Acetone	260		8.10	21.7	ug/Kg
75-15-0	Carbon Disulfide	49.7		1.90	4.30	ug/Kg
1634-04-4	Methyl tert-butyl Ether	55.2		0.56	4.30	ug/Kg
79-20-9	Methyl Acetate	69.8		1.40	4.30	ug/Kg
75-09-2	Methylene Chloride	62.5		5.30	8.70	ug/Kg
156-60-5	trans-1,2-Dichloroethene	50.9		0.63	4.30	ug/Kg
75-34-3	1,1-Dichloroethane	54.8		0.62	4.30	ug/Kg
110-82-7	Cyclohexane	44.2		0.61	4.30	ug/Kg
78-93-3	2-Butanone	270		6.30	21.7	ug/Kg
56-23-5	Carbon Tetrachloride	51.3		0.68	4.30	ug/Kg
156-59-2	cis-1,2-Dichloroethene	55.3		0.56	4.30	ug/Kg
74-97-5	Bromochloromethane	44.7		2.00	4.30	ug/Kg
67-66-3	Chloroform	56.3		1.10	4.30	ug/Kg
71-55-6	1,1,1-Trichloroethane	53.4		0.66	4.30	ug/Kg
108-87-2	Methylcyclohexane	43.4		2.90	4.30	ug/Kg
71-43-2	Benzene	52.7		0.57	4.30	ug/Kg
107-06-2	1,2-Dichloroethane	55.7		0.62	4.30	ug/Kg
79-01-6	Trichloroethene	49.2		0.57	4.30	ug/Kg
78-87-5	1,2-Dichloropropane	53.9		0.51	4.30	ug/Kg
75-27-4	Bromodichloromethane	54.1		0.61	4.30	ug/Kg
108-10-1	4-Methyl-2-Pentanone	260		3.90	21.7	ug/Kg
108-88-3	Toluene	51.1		0.56	4.30	ug/Kg
10061-02-6	t-1,3-Dichloropropene	51.2		0.67	4.30	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	52.2		0.64	4.30	ug/Kg

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/12/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-04-(1-5)MSD	SDG No.:	O3645
Lab Sample ID:	O3645-10MSD	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	91.3
Sample Wt/Vol:	6.31 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RTX-VMS ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD076763.D	1		07/17/23 19:17	VD071723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
79-00-5	1,1,2-Trichloroethane	52.8		0.75	4.30	ug/Kg
591-78-6	2-Hexanone	260		4.60	21.7	ug/Kg
124-48-1	Dibromochloromethane	55.0		0.74	4.30	ug/Kg
106-93-4	1,2-Dibromoethane	52.1		0.69	4.30	ug/Kg
127-18-4	Tetrachloroethene	69.4		0.67	4.30	ug/Kg
108-90-7	Chlorobenzene	50.3		0.55	4.30	ug/Kg
100-41-4	Ethyl Benzene	49.4		0.58	4.30	ug/Kg
179601-23-1	m/p-Xylenes	98.8		1.20	8.70	ug/Kg
1330-20-7	Total Xylenes	150		1.87	13.0	ug/Kg
95-47-6	o-Xylene	50.8		0.67	4.30	ug/Kg
100-42-5	Styrene	50.7		0.60	4.30	ug/Kg
75-25-2	Bromoform	54.5		0.82	4.30	ug/Kg
98-82-8	Isopropylbenzene	50.8		0.62	4.30	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	53.6		0.93	4.30	ug/Kg
103-65-1	n-propylbenzene	49.1		0.61	4.30	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	50.2		0.56	4.30	ug/Kg
98-06-6	tert-Butylbenzene	49.2		0.67	4.30	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	50.7		0.58	4.30	ug/Kg
135-98-8	sec-Butylbenzene	46.8		0.67	4.30	ug/Kg
99-87-6	p-Isopropyltoluene	46.3		0.64	4.30	ug/Kg
541-73-1	1,3-Dichlorobenzene	48.5		0.59	4.30	ug/Kg
106-46-7	1,4-Dichlorobenzene	48.5		0.52	4.30	ug/Kg
104-51-8	n-Butylbenzene	41.2		0.59	4.30	ug/Kg
95-50-1	1,2-Dichlorobenzene	50.5		0.52	4.30	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	53.3		1.00	4.30	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	40.5		0.53	4.30	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	40.6		0.55	4.30	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.1		50 - 163	102%	SPK: 50
1868-53-7	Dibromofluoromethane	51.1		54 - 147	102%	SPK: 50
2037-26-5	Toluene-d8	48.0		58 - 134	96%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.3		30 - 143	95%	SPK: 50
INTERNAL STANDARDS						

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/12/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-04-(1-5)MSD	SDG No.:	O3645
Lab Sample ID:	O3645-10MSD	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	91.3
Sample Wt/Vol:	6.31 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RTX-VMS ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD076763.D	1		07/17/23 19:17	VD071723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
363-72-4	Pentafluorobenzene	155000	7.875			
540-36-3	1,4-Difluorobenzene	288000	8.775			
3114-55-4	Chlorobenzene-d5	267000	11.581			
3855-82-1	1,4-Dichlorobenzene-d4	118000	13.516			

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

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM Case No.: O3645 SAS No.: O3645 SDG No.: O3645

Instrument ID: MSVOA_D Calibration Date(s): 07/14/2023 07/14/2023

Heated Purge: (Y/N) Y Calibration Time(s): 12:50 15:57

GC Column: RTX-VMS ID: 0.18 (mm)

LAB FILE ID: RRF020 = VD076737.D RRF050 = VD076738.D RRF100 = VD076739.D
RRF150 = VD076740.D RRF005 = VD076742.D RRF =

COMPOUND	RRF020	RRF050	RRF100	RRF150	RRF005	RRF	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.449	0.393	0.359	0.383	0.372		0.391	8.9
Chloromethane	0.718	0.686	0.618	0.587	0.764		0.674	10.7
Vinyl Chloride	0.950	0.906	0.839	0.842	0.958		0.899	6.3
Bromomethane	0.729	0.705	0.690	0.709	0.866		0.740	9.8
Chloroethane	0.705	0.687	0.640	0.629	0.733		0.679	6.4
Trichlorofluoromethane	0.868	0.775	0.756	0.794	0.807		0.800	5.3
1,1,2-Trichlorotrifluoroethane	0.584	0.520	0.491	0.514	0.521		0.526	6.5
1,1-Dichloroethene	0.523	0.494	0.468	0.479	0.508		0.494	4.5
Acetone	0.109	0.123	0.118	0.104	0.141		0.119	12.1
Carbon Disulfide	1.218	1.205	1.127	1.113	1.106		1.154	4.6
Methyl tert-butyl Ether	1.306	1.404	1.328	1.284	1.303		1.325	3.5
Methyl Acetate	0.435	0.465	0.446	0.417	0.471		0.447	5
Methylene Chloride	0.803	0.735	0.659	0.600	2.123		0.984	65.2
trans-1,2-Dichloroethene	0.594	0.601	0.556	0.550	0.571		0.574	3.9
1,1-Dichloroethane	1.046	1.076	1.021	0.968	1.070		1.036	4.2
Cyclohexane	0.789	0.680	0.654	0.675	0.866		0.733	12.4
2-Butanone	0.154	0.170	0.163	0.147	0.162		0.159	5.6
Carbon Tetrachloride	0.423	0.393	0.396	0.407	0.346		0.393	7.3
cis-1,2-Dichloroethene	0.713	0.731	0.719	0.675	0.703		0.708	3
Bromochloromethane	0.294	0.246	0.238	0.216	0.301		0.259	14.3
Chloroform	1.175	1.133	1.115	1.045	1.206		1.135	5.4
1,1,1-Trichloroethane	0.968	0.935	0.909	0.897	0.869		0.916	4.1
Methylcyclohexane	0.509	0.478	0.466	0.492	0.425		0.474	6.7
Benzene	1.349	1.295	1.308	1.256	1.270		1.295	2.8
1,2-Dichloroethane	0.334	0.346	0.344	0.321	0.339		0.337	3
Trichloroethene	0.374	0.358	0.355	0.337	0.341		0.353	4.2
1,2-Dichloropropane	0.344	0.360	0.335	0.315	0.318		0.334	5.6
Bromodichloromethane	0.505	0.518	0.481	0.463	0.490		0.491	4.3
4-Methyl-2-Pentanone	0.185	0.207	0.195	0.181	0.185		0.191	5.6
Toluene	0.856	0.884	0.854	0.841	0.819		0.851	2.8
t-1,3-Dichloropropene	0.433	0.491	0.478	0.453	0.425		0.456	6.2
cis-1,3-Dichloropropene	0.551	0.570	0.545	0.526	0.494		0.537	5.3
1,1,2-Trichloroethane	0.285	0.304	0.292	0.270	0.278		0.286	4.6

* 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.

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM Case No.: O3645 SAS No.: O3645 SDG No.: O3645

Instrument ID: MSVOA_D Calibration Date(s): 07/14/2023 07/14/2023

Heated Purge: (Y/N) Y Calibration Time(s): 12:50 15:57

GC Column: RTX-VMS ID: 0.18 (mm)

LAB FILE ID: RRF020 = VD076737.D RRF050 = VD076738.D RRF100 = VD076739.D
RRF150 = VD076740.D RRF005 = VD076742.D RRF =

COMPOUND	RRF020	RRF050	RRF100	RRF150	RRF005	RRF	$\overline{RRF}$	% RSD
2-Hexanone	0.129	0.148	0.140	0.128	0.134		0.136	6.1
Dibromochloromethane	0.328	0.354	0.341	0.325	0.312		0.332	4.9
1,2-Dibromoethane	0.265	0.287	0.269	0.250	0.254		0.265	5.6
Tetrachloroethene	0.315	0.279	0.277	0.284	0.271		0.285	6
Chlorobenzene	1.067	0.999	1.005	0.991	0.965		1.006	3.7
Ethyl Benzene	1.860	1.760	1.772	1.819	1.620		1.766	5.2
m/p-Xylenes	0.721	0.677	0.696	0.705	0.592		0.678	7.5
o-Xylene	0.668	0.661	0.683	0.678	0.589		0.656	5.9
Styrene	1.182	1.164	1.196	1.190	1.009		1.148	6.9
Bromoform	0.211	0.211	0.214	0.205	0.184		0.205	5.9
Isopropylbenzene	3.774	3.610	3.576	3.657	3.521		3.628	2.6
1,1,2,2-Tetrachloroethane	0.811	0.787	0.765	0.710	0.821		0.779	5.7
n-propylbenzene	4.710	4.375	4.341	4.423	4.139		4.398	4.7
1,3,5-Trimethylbenzene	3.115	2.959	2.954	2.997	2.641		2.933	6
tert-Butylbenzene	2.721	2.623	2.653	2.681	2.237		2.583	7.6
1,2,4-Trimethylbenzene	3.159	3.045	3.028	3.057	2.699		2.997	5.8
sec-Butylbenzene	4.253	3.935	3.926	4.056	3.560		3.946	6.4
p-Isopropyltoluene	3.475	3.289	3.330	3.451	2.749		3.259	9.1
1,3-Dichlorobenzene	1.810	1.738	1.736	1.730	1.597		1.722	4.5
1,4-Dichlorobenzene	1.752	1.677	1.692	1.647	1.669		1.687	2.3
n-Butylbenzene	3.482	3.167	3.145	3.254	2.896		3.189	6.6
1,2-Dichlorobenzene	1.569	1.528	1.488	1.483	1.521		1.518	2.3
1,2-Dibromo-3-Chloropropane	0.115	0.106	0.105	0.096	0.134		0.111	12.9
1,2,4-Trichlorobenzene	0.946	0.924	0.938	0.907	0.918		0.927	1.7
1,2,3-Trichlorobenzene	0.835	0.827	0.836	0.807	0.852		0.831	2
1,2-Dichloroethane-d4	0.534	0.468	0.484	0.449	0.554		0.498	8.9
Dibromofluoromethane	0.345	0.291	0.317	0.285	0.333		0.314	8.2
Toluene-d8	1.271	1.053	1.102	1.042	1.152		1.124	8.3
4-Bromofluorobenzene	0.392	0.351	0.373	0.346	0.357		0.364	5.1

* 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.

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM Case No.: O3645 SAS No.: O3645 SDG No.: O3645

Instrument ID: MSVOA_N Calibration Date(s): 07/10/2023 07/10/2023

Heated Purge: (Y/N) N Calibration Time(s): 12:21 14:46

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

LAB FILE ID: RRF100 = VN078449.D RRF050 = VN078450.D RRF040 = VN078451.D
RRF020 = VN078452.D RRF005 = VN078453.D RRF001 = VN078454.D

COMPOUND	RRF100	RRF050	RRF040	RRF020	RRF005	RRF001	RRF	% RSD
Dichlorodifluoromethane	0.565	0.586	0.609	0.576	0.691	0.650	0.613	7.9
Chloromethane	0.566	0.614	0.651	0.617	0.733	0.818	0.666	13.9
Vinyl Chloride	0.802	0.813	0.805	0.842	0.936	0.974	0.862	8.7
Bromomethane	0.509	0.569	0.586	0.620	0.795		0.616	17.5
Chloroethane	0.500	0.570	0.523	0.560	0.592	0.751	0.583	15.2
Trichlorofluoromethane	0.945	0.983	0.993	1.010	1.108	1.143	1.030	7.5
1,1,2-Trichlorotrifluoroethane	0.513	0.537	0.542	0.533	0.577	0.569	0.545	4.4
1,1-Dichloroethene	0.502	0.519	0.523	0.509	0.567	0.545	0.528	4.6
Acetone	0.187	0.198	0.207	0.200	0.224	0.237	0.209	8.8
Carbon Disulfide	1.407	1.440	1.438	1.443	1.615	1.810	1.526	10.3
Methyl tert-butyl Ether	1.689	1.768	1.788	1.704	1.781	1.701	1.738	2.6
Methyl Acetate	0.796	0.865	0.866	0.829	0.933	1.015	0.884	8.9
Methylene Chloride	0.585	0.615	0.625	0.603	0.676	0.941	0.674	20
trans-1,2-Dichloroethene	0.562	0.592	0.591	0.581	0.631	0.610	0.595	4
1,1-Dichloroethane	1.032	1.076	1.062	1.056	1.156	1.144	1.088	4.6
Cyclohexane	0.825	0.830	0.882	0.876	1.117		0.906	13.3
2-Butanone	0.314	0.330	0.341	0.326	0.329	0.332	0.329	2.7
Carbon Tetrachloride	0.537	0.526	0.545	0.531	0.518	0.539	0.533	1.8
cis-1,2-Dichloroethene	0.673	0.688	0.696	0.681	0.711	0.678	0.688	2
Bromochloromethane	0.493	0.513	0.504	0.504	0.492	0.567	0.512	5.5
Chloroform	1.098	1.146	1.155	1.118	1.157	1.122	1.132	2.1
1,1,1-Trichloroethane	0.993	1.033	1.043	1.017	1.058	0.948	1.015	3.9
Methylcyclohexane	0.464	0.446	0.453	0.442	0.423	0.455	0.447	3.1
Benzene	1.458	1.443	1.478	1.463	1.450	1.420	1.452	1.4
1,2-Dichloroethane	0.485	0.475	0.487	0.497	0.497	0.522	0.494	3.3
Trichloroethene	0.382	0.371	0.387	0.376	0.373	0.458	0.391	8.5
1,2-Dichloropropane	0.372	0.358	0.368	0.374	0.367	0.367	0.368	1.5
Bromodichloromethane	0.526	0.518	0.522	0.526	0.503	0.518	0.519	1.7
4-Methyl-2-Pentanone	0.410	0.410	0.427	0.420	0.388	0.346	0.400	7.4
Toluene	0.930	0.902	0.936	0.878	0.869	0.885	0.900	3.1
t-1,3-Dichloropropene	0.570	0.543	0.557	0.531	0.513	0.476	0.532	6.3
cis-1,3-Dichloropropene	0.611	0.591	0.601	0.578	0.551	0.467	0.567	9.3
1,1,2-Trichloroethane	0.356	0.351	0.360	0.359	0.348	0.353	0.355	1.3

* 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.

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM Case No.: O3645 SAS No.: O3645 SDG No.: O3645

Instrument ID: MSVOA_N Calibration Date(s): 07/10/2023 07/10/2023

Heated Purge: (Y/N) N Calibration Time(s): 12:21 14:46

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

LAB FILE ID: RRF100 = VN078449.D RRF050 = VN078450.D RRF040 = VN078451.D
RRF020 = VN078452.D RRF005 = VN078453.D RRF001 = VN078454.D

COMPOUND	RRF100	RRF050	RRF040	RRF020	RRF005	RRF001	$\overline{RRF}$	% RSD
2-Hexanone	0.293	0.298	0.306	0.291	0.282	0.237	0.284	8.7
Dibromochloromethane	0.412	0.401	0.406	0.393	0.377	0.360	0.391	5
1,2-Dibromoethane	0.373	0.368	0.381	0.366	0.368	0.335	0.365	4.3
Tetrachloroethene	0.366	0.373	0.389	0.396	0.391	0.340	0.376	5.5
Chlorobenzene	1.094	1.095	1.124	1.112	1.139	1.142	1.118	1.9
Ethyl Benzene	1.974	1.945	1.965	1.929	1.860	1.662	1.889	6.3
m/p-Xylenes	0.747	0.737	0.745	0.721	0.704	0.536	0.698	11.7
o-Xylene	0.736	0.718	0.725	0.713	0.686	0.654	0.705	4.3
Styrene	1.222	1.170	1.190	1.117	1.056	0.867	1.104	11.8
Bromoform	0.304	0.306	0.311	0.294	0.297	0.236	0.291	9.5
Isopropylbenzene	4.223	4.339	4.344	4.665	5.480	5.138	4.698	10.8
1,1,2,2-Tetrachloroethane	1.245	1.370	1.396	1.498	1.856	2.152	1.586	21.8
n-propylbenzene	4.818	4.824	4.885	5.017	5.527	5.076	5.024	5.3
1,3,5-Trimethylbenzene	3.386	3.486	3.562	3.773	4.124	3.941	3.712	7.7
tert-Butylbenzene	2.856	2.928	2.931	3.159	3.620	3.415	3.152	9.8
1,2,4-Trimethylbenzene	3.353	3.440	3.566	3.649	4.067	3.560	3.606	6.9
sec-Butylbenzene	3.700	3.733	3.741	3.923	4.614	4.191	3.984	9
p-Isopropyltoluene	3.051	3.079	3.135	3.204	3.565	3.159	3.199	5.9
1,3-Dichlorobenzene	1.729	1.746	1.758	1.767	1.968	1.855	1.804	5.1
1,4-Dichlorobenzene	1.688	1.723	1.710	1.775	1.939	2.064	1.817	8.3
n-Butylbenzene	2.310	2.322	2.343	2.296	2.555	1.906	2.289	9.2
1,2-Dichlorobenzene	1.673	1.724	1.730	1.808	1.985	1.849	1.795	6.3
1,2-Dibromo-3-Chloropropane	0.218	0.227	0.236	0.246	0.277	0.365	0.262	20.8
1,2,4-Trichlorobenzene	0.630	0.609	0.586	0.555	0.512	0.545	0.573	7.6
1,2,3-Trichlorobenzene	0.668	0.660	0.658	0.646	0.627	0.694	0.659	3.4
1,2-Dichloroethane-d4	0.652	0.662	0.657	0.675	0.706		0.670	3.2
Dibromofluoromethane	0.338	0.331	0.330	0.347	0.351		0.339	2.8
Toluene-d8	1.319	1.251	1.247	1.281	1.313		1.282	2.6
4-Bromofluorobenzene	0.430	0.397	0.392	0.388	0.368		0.395	5.7

* 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: CHEMTECH Contract: LABE01

Lab Code: CHEM Case No.: O3645 SAS No.: O3645 SDG No.: O3645

Instrument ID: MSVOA_D Calibration Date/Time: 07/17/2023 10:19

Lab File ID: VD076745.D Init. Calib. Date(s): 07/14/2023 07/14/2023

Heated Purge: (Y/N) Y Init. Calib. Time(s): 12:50 15:57

GC Column: RTX-VMS ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.391	0.373		-4.6	20
Chloromethane	0.674	0.574	0.1	-14.84	20
Vinyl Chloride	0.899	0.842		-6.34	20
Bromomethane	0.740	0.658		-11.08	20
Chloroethane	0.679	0.629		-7.36	20
Trichlorofluoromethane	0.800	0.777		-2.88	20
1,1,2-Trichlorotrifluoroethane	0.526	0.518		-1.52	20
1,1-Dichloroethene	0.494	0.477		-3.44	20
Acetone	0.119	0.126		5.88	20
Carbon Disulfide	1.154	1.116		-3.29	20
Methyl tert-butyl Ether	1.325	1.256		-5.21	20
Methyl Acetate	0.447	0.393		-12.08	20
Methylene Chloride	0.984	0.616		-37.4	20
trans-1,2-Dichloroethene	0.574	0.533		-7.14	20
1,1-Dichloroethane	1.036	1.012	0.1	-2.32	20
Cyclohexane	0.733	0.730		-0.41	20
2-Butanone	0.159	0.161		1.26	20
Carbon Tetrachloride	0.393	0.465		18.32	20
cis-1,2-Dichloroethene	0.708	0.703		-0.71	20
Bromochloromethane	0.259	0.225		-13.13	20
Chloroform	1.135	1.155		1.76	20
1,1,1-Trichloroethane	0.916	0.967		5.57	20
Methylcyclohexane	0.474	0.532		12.24	20
Benzene	1.295	1.388		7.18	20
1,2-Dichloroethane	0.337	0.353		4.75	20
Trichloroethene	0.353	0.390		10.48	20
1,2-Dichloropropane	0.334	0.356		6.59	20
Bromodichloromethane	0.491	0.525		6.93	20
4-Methyl-2-Pentanone	0.191	0.193		1.05	20
Toluene	0.851	0.918		7.87	20
t-1,3-Dichloropropene	0.456	0.488		7.02	20
cis-1,3-Dichloropropene	0.537	0.575		7.08	20
1,1,2-Trichloroethane	0.286	0.301		5.24	20
2-Hexanone	0.136	0.145		6.62	20
Dibromochloromethane	0.332	0.357		7.53	20
1,2-Dibromoethane	0.265	0.276		4.15	20
Tetrachloroethene	0.285	0.326		14.39	20
Chlorobenzene	1.006	1.084	0.3	7.75	20
Ethyl Benzene	1.766	1.924		8.95	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: CHEMTECH Contract: LABE01

Lab Code: CHEM Case No.: O3645 SAS No.: O3645 SDG No.: O3645

Instrument ID: MSVOA_D Calibration Date/Time: 07/17/2023 10:19

Lab File ID: VD076745.D Init. Calib. Date(s): 07/14/2023 07/14/2023

Heated Purge: (Y/N) Y Init. Calib. Time(s): 12:50 15:57

GC Column: RTX-VMS ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
m/p-Xylenes	0.678	0.753		11.06	20
o-Xylene	0.656	0.716		9.15	20
Styrene	1.148	1.250		8.89	20
Bromoform	0.205	0.229	0.1	11.71	20
Isopropylbenzene	3.628	4.115		13.42	20
1,1,2,2-Tetrachloroethane	0.779	0.814	0.3	4.49	20
n-propylbenzene	4.398	5.048		14.78	20
1,3,5-Trimethylbenzene	2.933	3.385		15.41	20
tert-Butylbenzene	2.583	3.005		16.34	20
1,2,4-Trimethylbenzene	2.997	3.399		13.41	20
sec-Butylbenzene	3.946	4.528		14.75	20
p-Isopropyltoluene	3.259	3.759		15.34	20
1,3-Dichlorobenzene	1.722	1.937		12.48	20
1,4-Dichlorobenzene	1.687	1.884		11.68	20
n-Butylbenzene	3.189	3.576		12.14	20
1,2-Dichlorobenzene	1.518	1.672		10.15	20
1,2-Dibromo-3-Chloropropane	0.111	0.111		0	20
1,2,4-Trichlorobenzene	0.927	1.051		13.38	20
1,2,3-Trichlorobenzene	0.831	0.934		12.4	20
1,2-Dichloroethane-d4	0.498	0.431		-13.45	20
Dibromofluoromethane	0.314	0.296		-5.73	20
Toluene-d8	1.124	1.028		-8.54	20
4-Bromofluorobenzene	0.364	0.336		-7.69	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: CHEMTECH Contract: LABE01

Lab Code: CHEM Case No.: O3645 SAS No.: O3645 SDG No.: O3645

Instrument ID: MSVOA_D Calibration Date/Time: 07/18/2023 09:13

Lab File ID: VD076766.D Init. Calib. Date(s): 07/14/2023 07/14/2023

Heated Purge: (Y/N) Y Init. Calib. Time(s): 12:50 15:57

GC Column: RTX-VMS ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.391	0.378		-3.33	20
Chloromethane	0.674	0.569	0.1	-15.58	20
Vinyl Chloride	0.899	0.834		-7.23	20
Bromomethane	0.740	0.625		-15.54	20
Chloroethane	0.679	0.599		-11.78	20
Trichlorofluoromethane	0.800	0.786		-1.75	20
1,1,2-Trichlorotrifluoroethane	0.526	0.527		0.19	20
1,1-Dichloroethene	0.494	0.459		-7.09	20
Acetone	0.119	0.120		0.84	20
Carbon Disulfide	1.154	1.037		-10.14	20
Methyl tert-butyl Ether	1.325	1.139		-14.04	20
Methyl Acetate	0.447	0.386		-13.65	20
Methylene Chloride	0.984	0.628		-36.18	20
trans-1,2-Dichloroethene	0.574	0.510		-11.15	20
1,1-Dichloroethane	1.036	0.936	0.1	-9.65	20
Cyclohexane	0.733	0.685		-6.55	20
2-Butanone	0.159	0.148		-6.92	20
Carbon Tetrachloride	0.393	0.415		5.6	20
cis-1,2-Dichloroethene	0.708	0.643		-9.18	20
Bromochloromethane	0.259	0.215		-16.99	20
Chloroform	1.135	1.047		-7.75	20
1,1,1-Trichloroethane	0.916	0.900		-1.75	20
Methylcyclohexane	0.474	0.487		2.74	20
Benzene	1.295	1.232		-4.86	20
1,2-Dichloroethane	0.337	0.322		-4.45	20
Trichloroethene	0.353	0.338		-4.25	20
1,2-Dichloropropane	0.334	0.318		-4.79	20
Bromodichloromethane	0.491	0.458		-6.72	20
4-Methyl-2-Pentanone	0.191	0.176		-7.85	20
Toluene	0.851	0.806		-5.29	20
t-1,3-Dichloropropene	0.456	0.425		-6.8	20
cis-1,3-Dichloropropene	0.537	0.492		-8.38	20
1,1,2-Trichloroethane	0.286	0.264		-7.69	20
2-Hexanone	0.136	0.129		-5.15	20
Dibromochloromethane	0.332	0.328		-1.21	20
1,2-Dibromoethane	0.265	0.239		-9.81	20
Tetrachloroethene	0.285	0.304		6.67	20
Chlorobenzene	1.006	0.990	0.3	-1.59	20
Ethyl Benzene	1.766	1.786		1.13	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: CHEMTECH Contract: LABE01

Lab Code: CHEM Case No.: O3645 SAS No.: O3645 SDG No.: O3645

Instrument ID: MSVOA_D Calibration Date/Time: 07/18/2023 09:13

Lab File ID: VD076766.D Init. Calib. Date(s): 07/14/2023 07/14/2023

Heated Purge: (Y/N) Y Init. Calib. Time(s): 12:50 15:57

GC Column: RTX-VMS ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
m/p-Xylenes	0.678	0.693		2.21	20
o-Xylene	0.656	0.661		0.76	20
Styrene	1.148	1.153		0.44	20
Bromoform	0.205	0.208	0.1	1.46	20
Isopropylbenzene	3.628	3.709		2.23	20
1,1,2,2-Tetrachloroethane	0.779	0.744	0.3	-4.49	20
n-propylbenzene	4.398	4.586		4.28	20
1,3,5-Trimethylbenzene	2.933	3.010		2.63	20
tert-Butylbenzene	2.583	2.727		5.57	20
1,2,4-Trimethylbenzene	2.997	3.007		0.33	20
sec-Butylbenzene	3.946	4.229		7.17	20
p-Isopropyltoluene	3.259	3.439		5.52	20
1,3-Dichlorobenzene	1.722	1.726		0.23	20
1,4-Dichlorobenzene	1.687	1.656		-1.84	20
n-Butylbenzene	3.189	3.329		4.39	20
1,2-Dichlorobenzene	1.518	1.470		-3.16	20
1,2-Dibromo-3-Chloropropane	0.111	0.096		-13.51	20
1,2,4-Trichlorobenzene	0.927	0.894		-3.56	20
1,2,3-Trichlorobenzene	0.831	0.800		-3.73	20
1,2-Dichloroethane-d4	0.498	0.417		-16.26	20
Dibromofluoromethane	0.314	0.285		-9.24	20
Toluene-d8	1.124	1.015		-9.7	20
4-Bromofluorobenzene	0.364	0.329		-9.61	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: CHEMTECH Contract: LABE01

Lab Code: CHEM Case No.: O3645 SAS No.: O3645 SDG No.: O3645

Instrument ID: MSVOA_N Calibration Date/Time: 07/18/2023 10:29

Lab File ID: VN078550.D Init. Calib. Date(s): 07/10/2023 07/10/2023

Heated Purge: (Y/N) N Init. Calib. Time(s): 12:21 14:46

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.613	0.516		-15.82	20
Chloromethane	0.666	0.661	0.1	-0.75	20
Vinyl Chloride	0.862	0.831		-3.6	20
Bromomethane	0.616	0.530		-13.96	20
Chloroethane	0.583	0.515		-11.66	20
Trichlorofluoromethane	1.030	0.939		-8.84	20
1,1,2-Trichlorotrifluoroethane	0.545	0.527		-3.3	20
1,1-Dichloroethene	0.528	0.490		-7.2	20
Acetone	0.209	0.196		-6.22	20
Carbon Disulfide	1.526	1.215		-20.38	20
Methyl tert-butyl Ether	1.738	1.647		-5.24	20
Methyl Acetate	0.884	0.773		-12.56	20
Methylene Chloride	0.674	0.573		-14.98	20
trans-1,2-Dichloroethene	0.595	0.552		-7.23	20
1,1-Dichloroethane	1.088	1.005	0.1	-7.63	20
Cyclohexane	0.906	0.757		-16.45	20
2-Butanone	0.329	0.304		-7.6	20
Carbon Tetrachloride	0.533	0.547		2.63	20
cis-1,2-Dichloroethene	0.688	0.671		-2.47	20
Bromochloromethane	0.512	0.496		-3.13	20
Chloroform	1.132	1.120		-1.06	20
1,1,1-Trichloroethane	1.015	0.998		-1.67	20
Methylcyclohexane	0.447	0.455		1.79	20
Benzene	1.452	1.472		1.38	20
1,2-Dichloroethane	0.494	0.513		3.85	20
Trichloroethene	0.391	0.393		0.51	20
1,2-Dichloropropane	0.368	0.379		2.99	20
Bromodichloromethane	0.519	0.552		6.36	20
4-Methyl-2-Pentanone	0.400	0.407		1.75	20
Toluene	0.900	0.945		5	20
t-1,3-Dichloropropene	0.532	0.559		5.07	20
cis-1,3-Dichloropropene	0.567	0.609		7.41	20
1,1,2-Trichloroethane	0.355	0.373		5.07	20
2-Hexanone	0.284	0.285		0.35	20
Dibromochloromethane	0.391	0.425		8.7	20
1,2-Dibromoethane	0.365	0.385		5.48	20
Tetrachloroethene	0.376	0.388		3.19	20
Chlorobenzene	1.118	1.128	0.3	0.89	20
Ethyl Benzene	1.889	1.952		3.34	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: CHEMTECH Contract: LABE01

Lab Code: CHEM Case No.: O3645 SAS No.: O3645 SDG No.: O3645

Instrument ID: MSVOA_N Calibration Date/Time: 07/18/2023 10:29

Lab File ID: VN078550.D Init. Calib. Date(s): 07/10/2023 07/10/2023

Heated Purge: (Y/N) N Init. Calib. Time(s): 12:21 14:46

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
m/p-Xylenes	0.698	0.751		7.59	20
o-Xylene	0.705	0.728		3.26	20
Styrene	1.104	1.212		9.78	20
Bromoform	0.291	0.318	0.1	9.28	20
Isopropylbenzene	4.698	4.460		-5.07	20
1,1,2,2-Tetrachloroethane	1.586	1.371	0.3	-13.56	20
n-propylbenzene	5.024	5.004		-0.4	20
1,3,5-Trimethylbenzene	3.712	3.663		-1.32	20
tert-Butylbenzene	3.152	3.070		-2.6	20
1,2,4-Trimethylbenzene	3.606	3.589		-0.47	20
sec-Butylbenzene	3.984	3.958		-0.65	20
p-Isopropyltoluene	3.199	3.249		1.56	20
1,3-Dichlorobenzene	1.804	1.838		1.88	20
1,4-Dichlorobenzene	1.817	1.768		-2.7	20
n-Butylbenzene	2.289	2.369		3.49	20
1,2-Dichlorobenzene	1.795	1.784		-0.61	20
1,2-Dibromo-3-Chloropropane	0.262	0.215		-17.94	20
1,2,4-Trichlorobenzene	0.573	0.572		-0.17	20
1,2,3-Trichlorobenzene	0.659	0.623		-5.46	20
1,2-Dichloroethane-d4	0.670	0.659		-1.64	20
Dibromofluoromethane	0.339	0.373		10.03	20
Toluene-d8	1.282	1.384		7.96	20
4-Bromofluorobenzene	0.395	0.439		11.14	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:	O3645	**OrderDate:**	7/17/2023 9:31:59 AM
Client:	LaBella Associates P.C.	**Project:**	Mackenna Parcels
Contact:	Andrew T. Benkleman	**Location:**	I11,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
O3645-01	**SB-02-(3-5)**	**SOIL**			**07/12/23**			**07/17/23**
			SVOCMS Group1	8270E		07/18/23	07/28/23	
O3645-02	**SB-04-(1-5)**	**SOIL**			**07/12/23**			**07/17/23**
			SVOCMS Group1	8270E		07/18/23	08/01/23	
O3645-03	**SB-07-(1-3)**	**SOIL**			**07/13/23**			**07/17/23**
			SVOCMS Group1	8270E		07/18/23	07/29/23	
O3645-04	**SB-08-(0.5-2.0)**	**SOIL**			**07/13/23**			**07/17/23**
			SVOCMS Group1	8270E		07/18/23	08/01/23	
O3645-05	**SB-09-(2.0-4.0)**	**SOIL**			**07/13/23**			**07/17/23**
			SVOCMS Group1	8270E		07/18/23	08/02/23	
O3645-06	**SB-10-(0.5-2.0)**	**SOIL**			**07/13/23**			**07/17/23**
			SVOCMS Group1	8270E		07/18/23	08/02/23	
O3645-06DL	**SB-10-(0.5-2.0)DL**	**SOIL**			**07/13/23**			**07/17/23**
			SVOCMS Group1	8270E		07/18/23	08/02/23	
O3645-07	**DUP**	**SOIL**			**07/12/23**			**07/17/23**
			SVOCMS Group1	8270E		07/18/23	08/02/23	
O3645-08	**RINSATE-BLANK**	**Water**			**07/12/23**			**07/17/23**
			SVOCMS Group1	8270E		07/17/23	07/28/23	

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Hit Summary Sheet
SW-846

SDG No.: O3645

Client: LaBella Associates P.C.

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Client ID : SB-02-(3-5)									
O3645-01	SB-02-(3-5)	SOIL	Dimethylphthalate		570.000		100	200	ug/Kg
			Total Svoc :		**570.00**				
O3645-01	SB-02-(3-5)	SOIL	Butane, 2-methoxy-2-methyl-	*	810.000	J	0	0	ug/Kg
O3645-01	SB-02-(3-5)	SOIL	n-Hexadecanoic acid	*	330.000	J	0	0	ug/Kg
O3645-01	SB-02-(3-5)	SOIL	Pentadecafluorooctanoic acid, oct	*	360.000	J	0	0	ug/Kg
			Total Tics :		**1,500.00**				
			Total Concentration:		**2,070.00**				
Client ID : SB-04-(1-5)									
O3645-02	SB-04-(1-5)	SOIL	Dimethylphthalate		150.000	J	97.1	190	ug/Kg
O3645-02	SB-04-(1-5)	SOIL	Phenanthrene		120.000	J	100	190	ug/Kg
O3645-02	SB-04-(1-5)	SOIL	Fluoranthene		150.000	J	100	190	ug/Kg
O3645-02	SB-04-(1-5)	SOIL	Pyrene		140.000	J	91.4	190	ug/Kg
O3645-02	SB-04-(1-5)	SOIL	Benzo(b)fluoranthene		130.000	J	87.7	190	ug/Kg
			Total Svoc :		**690.00**				
O3645-02	SB-04-(1-5)	SOIL	2,4,7,9-Tetramethyl-5-decyn-4,7-d	*	130.000	J	0	0	ug/Kg
O3645-02	SB-04-(1-5)	SOIL	5-Eicosene, (E)-	*	230.000	J	0	0	ug/Kg
O3645-02	SB-04-(1-5)	SOIL	Benzo[e]pyrene	*	75.400	J	0	0	ug/Kg
O3645-02	SB-04-(1-5)	SOIL	n-Hexadecanoic acid	*	200.000	J	0	0	ug/Kg
O3645-02	SB-04-(1-5)	SOIL	Octadecanoic acid	*	75.400	J	0	0	ug/Kg
			Total Tics :		**710.80**				
			Total Concentration:		**1,400.80**				
Client ID : SB-07-(1-3)									
O3645-03	SB-07-(1-3)	SOIL	1-Heneicosanol	*	190.000	J	0	0	ug/Kg
O3645-03	SB-07-(1-3)	SOIL	Butane, 2-methoxy-2-methyl-	*	410.000	J	0	0	ug/Kg
O3645-03	SB-07-(1-3)	SOIL	n-Hexadecanoic acid	*	200.000	J	0	0	ug/Kg
			Total Tics :		**800.00**				
			Total Concentration:		**800.00**				
Client ID : SB-08-(0.5-2.0)									
O3645-04	SB-08-(0.5-2.0)	SOIL	Dimethylphthalate		150.000	J	120	230	ug/Kg
O3645-04	SB-08-(0.5-2.0)	SOIL	Phenanthrene		450.000		120	230	ug/Kg
O3645-04	SB-08-(0.5-2.0)	SOIL	Fluoranthene		660.000		130	230	ug/Kg
O3645-04	SB-08-(0.5-2.0)	SOIL	Pyrene		610.000		110	230	ug/Kg
O3645-04	SB-08-(0.5-2.0)	SOIL	Benzo(a)anthracene		360.000		110	230	ug/Kg
O3645-04	SB-08-(0.5-2.0)	SOIL	Chrysene		370.000		120	230	ug/Kg
O3645-04	SB-08-(0.5-2.0)	SOIL	Benzo(b)fluoranthene		500.000		110	230	ug/Kg
O3645-04	SB-08-(0.5-2.0)	SOIL	Benzo(k)fluoranthene		150.000	J	120	230	ug/Kg
O3645-04	SB-08-(0.5-2.0)	SOIL	Benzo(a)pyrene		350.000		130	230	ug/Kg
O3645-04	SB-08-(0.5-2.0)	SOIL	Indeno(1,2,3-cd)pyrene		190.000	J	140	230	ug/Kg

Hit Summary Sheet
SW-846

SDG No.: O3645

Client: LaBella Associates P.C.

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
O3645-04	SB-08-(0.5-2.0)	SOIL	Benzo(g,h,i)perylene		210.000	J	120	230	ug/Kg
			Total Svoc :		**4,000.00**				
O3645-04	SB-08-(0.5-2.0)	SOIL	Benzaldehyde, 3,5-dichloro-2-hyd	*	120.000	J	0	0	ug/Kg
O3645-04	SB-08-(0.5-2.0)	SOIL	Dodecane, 2,7,10-trimethyl-	*	91.100	J	0	0	ug/Kg
O3645-04	SB-08-(0.5-2.0)	SOIL	Benzo[e]pyrene	*	100.000	J	0	0	ug/Kg
O3645-04	SB-08-(0.5-2.0)	SOIL	n-Hexadecanoic acid	*	310.000	J	0	0	ug/Kg
O3645-04	SB-08-(0.5-2.0)	SOIL	Perylene	*	270.000	J	0	0	ug/Kg
O3645-04	SB-08-(0.5-2.0)	SOIL	Tetracosyl heptafluorobutyrate	*	140.000	J	0	0	ug/Kg
			Total Tics :		**1,031.10**				
			Total Concentration:		**5,031.10**				
Client ID :	**SB-09-(2.0-4.0)**								
O3645-05	SB-09-(2.0-4.0)	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	110.000	AB	0	0	ug/Kg
O3645-05	SB-09-(2.0-4.0)	SOIL	n-Hexadecanoic acid	*	110.000	J	0	0	ug/Kg
			Total Tics :		**220.00**				
			Total Concentration:		**220.00**				
Client ID :	**SB-10-(0.5-2.0)**								
O3645-06	SB-10-(0.5-2.0)	SOIL	Naphthalene		270.000		97.6	200	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	2-Methylnaphthalene		200.000		110	200	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Dimethylphthalate		130.000	J	110	200	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Acenaphthylene		120.000	J	110	200	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Acenaphthene		260.000		96.2	200	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Dibenzofuran		220.000		92.2	200	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Fluorene		290.000		100	200	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Phenanthrene		2,900.000		110	200	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Anthracene		790.000		120	200	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Carbazole		430.000		100	200	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Di-n-butylphthalate		120.000	J	120	200	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Fluoranthene		3,400.000	E	110	200	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Pyrene		3,100.000		100	200	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Benzo(a)anthracene		1,800.000		100	200	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Chrysene		1,900.000		100	200	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Benzo(b)fluoranthene		2,400.000		96.2	200	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Benzo(k)fluoranthene		880.000		110	200	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Benzo(a)pyrene		1,700.000		110	200	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Indeno(1,2,3-cd)pyrene		1,000.000		130	200	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Dibenzo(a,h)anthracene		320.000		120	200	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Benzo(g,h,i)perylene		1,200.000		110	200	ug/Kg
			Total Svoc :		**23,430.00**				
O3645-06	SB-10-(0.5-2.0)	SOIL	Anthracene, 2-methyl-	*	330.000	J	0	0	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Benzo[e]pyrene	*	2,000.000	J	0	0	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Dehydroabietic acid	*	260.000	J	0	0	ug/Kg

Hit Summary Sheet
SW-846

SDG No.: O3645

Client: LaBella Associates P.C.

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
O3645-06	SB-10-(0.5-2.0)	SOIL	Eicosane	*	610.000	J	0	0	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Eicosane, 10-methyl-	*	390.000	J	0	0	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Heneicosane	*	950.000	J	0	0	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Heptadecane	*	2,000.000	J	0	0	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Hexacosane	*	510.000	J	0	0	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Hexadecane	*	440.000	J	0	0	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Hexathiane	*	310.000	J	0	0	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Naphthalene, 2-phenyl-	*	440.000	J	0	0	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Nonadecane	*	500.000	J	0	0	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Octadecanoic acid	*	440.000	J	0	0	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Pentacosane	*	580.000	J	0	0	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Perylene	*	2,400.000	J	0	0	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Sulfurous acid, butyl nonyl ester	*	290.000	J	0	0	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Tetracosane	*	500.000	J	0	0	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Tetradecane	*	440.000	J	0	0	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Triacontane	*	330.000	J	0	0	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Tridecane, 6-propyl-	*	560.000	J	0	0	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	1-Methylnaphthalene	*	150.000	J	110	200	ug/Kg
			Total Tics :		**14,430.00**				
			Total Concentration:		**37,860.00**				
Client ID :	**SB-10-(0.5-2.0)DL**								
O3645-06DL	SB-10-(0.5-2.0)DL	SOIL	Phenanthrene		3,500.000	D	560	1000	ug/Kg
O3645-06DL	SB-10-(0.5-2.0)DL	SOIL	Anthracene		810.000	JD	610	1000	ug/Kg
O3645-06DL	SB-10-(0.5-2.0)DL	SOIL	Fluoranthene		4,400.000	D	570	1000	ug/Kg
O3645-06DL	SB-10-(0.5-2.0)DL	SOIL	Pyrene		3,100.000	D	500	1000	ug/Kg
O3645-06DL	SB-10-(0.5-2.0)DL	SOIL	Benzo(a)anthracene		2,000.000	D	500	1000	ug/Kg
O3645-06DL	SB-10-(0.5-2.0)DL	SOIL	Chrysene		1,900.000	D	520	1000	ug/Kg
O3645-06DL	SB-10-(0.5-2.0)DL	SOIL	Benzo(b)fluoranthene		2,700.000	D	480	1000	ug/Kg
O3645-06DL	SB-10-(0.5-2.0)DL	SOIL	Benzo(k)fluoranthene		820.000	JD	530	1000	ug/Kg
O3645-06DL	SB-10-(0.5-2.0)DL	SOIL	Benzo(a)pyrene		1,800.000	D	570	1000	ug/Kg
O3645-06DL	SB-10-(0.5-2.0)DL	SOIL	Indeno(1,2,3-cd)pyrene		970.000	JD	640	1000	ug/Kg
O3645-06DL	SB-10-(0.5-2.0)DL	SOIL	Benzo(g,h,i)perylene		1,100.000	D	550	1000	ug/Kg
			Total Svoc :		**23,100.00**				
			Total Concentration:		**23,100.00**				
Client ID :	**DUP**								
O3645-07	DUP	SOIL	n-Hexadecanoic acid	*	130.000	J	0	0	ug/Kg
			Total Tics :		**130.00**				
			Total Concentration:		**130.00**				
Client ID :	**RINSATE-BLANK**								
O3645-08	RINSATE-BLANK	WATER	2-Pentanone, 4-hydroxy-4-methyl	*	3.100	AB	0	0	ug/L
			Total Tics :		**3.10**				

Hit Summary Sheet
SW-846

SDG No.: O3645

Client: LaBella Associates P.C.

Sample ID	Client ID	Parameter	Concentration	C	MDL	RDL	Units
		Total Concentration:	**3.10**				

SAMPLE DATA

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/12/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-02-(3-5)	SDG No.:	O3645
Lab Sample ID:	O3645-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	86.3
Sample Wt/Vol:	30.04 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BF134527.D	1	07/18/23 09:45	07/28/23 21:40	PB154258

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	380	U	170	380	ug/Kg
108-95-2	Phenol	200	U	86.1	200	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	200	U	100	200	ug/Kg
95-57-8	2-Chlorophenol	200	U	83.3	200	ug/Kg
95-48-7	2-Methylphenol	200	U	130	200	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	200	U	120	200	ug/Kg
98-86-2	Acetophenone	200	U	100	200	ug/Kg
65794-96-9	3+4-Methylphenols	380	U	120	380	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	92.6	U	68.3	92.6	ug/Kg
67-72-1	Hexachloroethane	200	U	85.2	200	ug/Kg
98-95-3	Nitrobenzene	200	U	87.0	200	ug/Kg
78-59-1	Isophorone	200	U	78.8	200	ug/Kg
88-75-5	2-Nitrophenol	200	U	110	200	ug/Kg
105-67-9	2,4-Dimethylphenol	200	U	120	200	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	200	U	130	200	ug/Kg
120-83-2	2,4-Dichlorophenol	200	U	90.4	200	ug/Kg
91-20-3	Naphthalene	200	U	94.2	200	ug/Kg
106-47-8	4-Chloroaniline	200	U	120	200	ug/Kg
87-68-3	Hexachlorobutadiene	200	U	97.2	200	ug/Kg
105-60-2	Caprolactam	380	U	140	380	ug/Kg
59-50-7	4-Chloro-3-methylphenol	200	U	95.5	200	ug/Kg
91-57-6	2-Methylnaphthalene	200	U	110	200	ug/Kg
77-47-4	Hexachlorocyclopentadiene	380	U	240	380	ug/Kg
88-06-2	2,4,6-Trichlorophenol	200	U	89.2	200	ug/Kg
95-95-4	2,4,5-Trichlorophenol	200	U	100	200	ug/Kg
92-52-4	1,1-Biphenyl	200	U	110	200	ug/Kg
91-58-7	2-Chloronaphthalene	200	U	97.9	200	ug/Kg
88-74-4	2-Nitroaniline	200	U	110	200	ug/Kg
131-11-3	Dimethylphthalate	570		100	200	ug/Kg
208-96-8	Acenaphthylene	200	U	100	200	ug/Kg
606-20-2	2,6-Dinitrotoluene	200	U	100	200	ug/Kg

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/12/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-02-(3-5)	SDG No.:	O3645
Lab Sample ID:	O3645-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	86.3
Sample Wt/Vol:	30.04 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BF134527.D	1	07/18/23 09:45	07/28/23 21:40	PB154258

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
99-09-2	3-Nitroaniline	200	U	110	200	ug/Kg
83-32-9	Acenaphthene	200	U	92.9	200	ug/Kg
51-28-5	2,4-Dinitrophenol	380	U	210	380	ug/Kg
100-02-7	4-Nitrophenol	380	U	130	380	ug/Kg
132-64-9	Dibenzofuran	200	U	89.0	200	ug/Kg
121-14-2	2,4-Dinitrotoluene	200	U	120	200	ug/Kg
84-66-2	Diethylphthalate	200	U	99.4	200	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	200	U	100	200	ug/Kg
86-73-7	Fluorene	200	U	98.1	200	ug/Kg
100-01-6	4-Nitroaniline	200	U	120	200	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	380	U	100	380	ug/Kg
86-30-6	n-Nitrosodiphenylamine	200	U	110	200	ug/Kg
101-55-3	4-Bromophenyl-phenylether	200	U	110	200	ug/Kg
118-74-1	Hexachlorobenzene	200	U	110	200	ug/Kg
1912-24-9	Atrazine	200	U	110	200	ug/Kg
87-86-5	Pentachlorophenol	380	U	130	380	ug/Kg
85-01-8	Phenanthrene	200	U	110	200	ug/Kg
120-12-7	Anthracene	200	U	120	200	ug/Kg
86-74-8	Carbazole	200	U	98.2	200	ug/Kg
84-74-2	Di-n-butylphthalate	200	U	120	200	ug/Kg
206-44-0	Fluoranthene	200	U	110	200	ug/Kg
129-00-0	Pyrene	200	U	96.9	200	ug/Kg
85-68-7	Butylbenzylphthalate	200	U	120	200	ug/Kg
91-94-1	3,3-Dichlorobenzidine	380	U	190	380	ug/Kg
56-55-3	Benzo(a)anthracene	200	U	97.1	200	ug/Kg
218-01-9	Chrysene	200	U	100	200	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	200	U	130	200	ug/Kg
117-84-0	Di-n-octyl phthalate	380	U	140	380	ug/Kg
205-99-2	Benzo(b)fluoranthene	200	U	92.9	200	ug/Kg
207-08-9	Benzo(k)fluoranthene	200	U	100	200	ug/Kg
50-32-8	Benzo(a)pyrene	200	U	110	200	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	200	U	120	200	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	200	U	110	200	ug/Kg

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/12/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-02-(3-5)	SDG No.:	O3645
Lab Sample ID:	O3645-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	86.3
Sample Wt/Vol:	30.04 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BF134527.D	1	07/18/23 09:45	07/28/23 21:40	PB154258

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
191-24-2	Benzo(g,h,i)perylene	200	U	110	200	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U	100	200	ug/Kg
123-91-1	1,4-Dioxane	200	U	140	200	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	200	U	95.9	200	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	127		18 - 112	85%	SPK: 150
13127-88-3	Phenol-d6	125		21 - 104	83%	SPK: 150
4165-60-0	Nitrobenzene-d5	77.7		27 - 109	78%	SPK: 100
321-60-8	2-Fluorobiphenyl	86.6		30 - 103	87%	SPK: 100
118-79-6	2,4,6-Tribromophenol	99.7		10 - 121	66%	SPK: 150
1718-51-0	Terphenyl-d14	80.0		21 - 107	80%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	80500	6.834			
1146-65-2	Naphthalene-d8	306000	8.11			
15067-26-2	Acenaphthene-d10	133000	9.863			
1517-22-2	Phenanthrene-d10	192000	11.363			
1719-03-5	Chrysene-d12	143000	14.021			
1520-96-3	Perylene-d12	102000	15.521			
TENTATIVE IDENTIFIED COMPOUNDS						
000994-05-8	Butane, 2-methoxy-2-methyl-	810	J		2.13	ug/Kg
000057-10-3	n-Hexadecanoic acid	330	J		11.9	ug/Kg
1000406-04-8	Pentadecafluorooctanoic acid, octa	360	J		13.9	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

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/12/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-04-(1-5)	SDG No.:	O3645
Lab Sample ID:	O3645-02	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	91.3
Sample Wt/Vol:	30.08 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BF134557.D	1	07/18/23 09:45	08/01/23 19:56	PB154258

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	360	U	160	360	ug/Kg
108-95-2	Phenol	190	U	81.3	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	190	U	98.1	190	ug/Kg
95-57-8	2-Chlorophenol	190	U	78.7	190	ug/Kg
95-48-7	2-Methylphenol	190	U	120	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	190	U	110	190	ug/Kg
98-86-2	Acetophenone	190	U	94.7	190	ug/Kg
65794-96-9	3+4-Methylphenols	360	U	120	360	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	87.4	U	64.5	87.4	ug/Kg
67-72-1	Hexachloroethane	190	U	80.4	190	ug/Kg
98-95-3	Nitrobenzene	190	U	82.1	190	ug/Kg
78-59-1	Isophorone	190	U	74.4	190	ug/Kg
88-75-5	2-Nitrophenol	190	U	100	190	ug/Kg
105-67-9	2,4-Dimethylphenol	190	U	110	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	190	U	120	190	ug/Kg
120-83-2	2,4-Dichlorophenol	190	U	85.3	190	ug/Kg
91-20-3	Naphthalene	190	U	88.9	190	ug/Kg
106-47-8	4-Chloroaniline	190	U	110	190	ug/Kg
87-68-3	Hexachlorobutadiene	190	U	91.8	190	ug/Kg
105-60-2	Caprolactam	360	U	130	360	ug/Kg
59-50-7	4-Chloro-3-methylphenol	190	U	90.1	190	ug/Kg
91-57-6	2-Methylnaphthalene	190	U	100	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	360	U	230	360	ug/Kg
88-06-2	2,4,6-Trichlorophenol	190	U	84.2	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	190	U	96.0	190	ug/Kg
92-52-4	1,1-Biphenyl	190	U	99.7	190	ug/Kg
91-58-7	2-Chloronaphthalene	190	U	92.4	190	ug/Kg
88-74-4	2-Nitroaniline	190	U	110	190	ug/Kg
131-11-3	Dimethylphthalate	150	J	97.1	190	ug/Kg
208-96-8	Acenaphthylene	190	U	96.6	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	190	U	98.3	190	ug/Kg

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Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/12/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-04-(1-5)	SDG No.:	O3645
Lab Sample ID:	O3645-02	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	91.3
Sample Wt/Vol:	30.08 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BF134557.D	1	07/18/23 09:45	08/01/23 19:56	PB154258

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
99-09-2	3-Nitroaniline	190	U	100	190	ug/Kg
83-32-9	Acenaphthene	190	U	87.7	190	ug/Kg
51-28-5	2,4-Dinitrophenol	360	U	200	360	ug/Kg
100-02-7	4-Nitrophenol	360	U	120	360	ug/Kg
132-64-9	Dibenzofuran	190	U	84.0	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	190	U	110	190	ug/Kg
84-66-2	Diethylphthalate	190	U	93.8	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	190	U	98.8	190	ug/Kg
86-73-7	Fluorene	190	U	92.6	190	ug/Kg
100-01-6	4-Nitroaniline	190	U	110	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	360	U	95.9	360	ug/Kg
86-30-6	n-Nitrosodiphenylamine	190	U	100	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	190	U	110	190	ug/Kg
118-74-1	Hexachlorobenzene	190	U	110	190	ug/Kg
1912-24-9	Atrazine	190	U	100	190	ug/Kg
87-86-5	Pentachlorophenol	360	U	120	360	ug/Kg
85-01-8	Phenanthrene	120	J	100	190	ug/Kg
120-12-7	Anthracene	190	U	110	190	ug/Kg
86-74-8	Carbazole	190	U	92.7	190	ug/Kg
84-74-2	Di-n-butylphthalate	190	U	110	190	ug/Kg
206-44-0	Fluoranthene	150	J	100	190	ug/Kg
129-00-0	Pyrene	140	J	91.4	190	ug/Kg
85-68-7	Butylbenzylphthalate	190	U	110	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	360	U	180	360	ug/Kg
56-55-3	Benzo(a)anthracene	190	U	91.7	190	ug/Kg
218-01-9	Chrysene	190	U	94.8	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	190	U	130	190	ug/Kg
117-84-0	Di-n-octyl phthalate	360	U	130	360	ug/Kg
205-99-2	Benzo(b)fluoranthene	130	J	87.7	190	ug/Kg
207-08-9	Benzo(k)fluoranthene	190	U	96.2	190	ug/Kg
50-32-8	Benzo(a)pyrene	190	U	100	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	190	U	120	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	190	U	110	190	ug/Kg

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Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/12/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-04-(1-5)	SDG No.:	O3645
Lab Sample ID:	O3645-02	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	91.3
Sample Wt/Vol:	30.08 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BF134557.D	1	07/18/23 09:45	08/01/23 19:56	PB154258

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
191-24-2	Benzo(g,h,i)perylene	190	U	100	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U	97.7	190	ug/Kg
123-91-1	1,4-Dioxane	190	U	130	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	190	U	90.6	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	98.7		18 - 112	66%	SPK: 150
13127-88-3	Phenol-d6	101		21 - 104	67%	SPK: 150
4165-60-0	Nitrobenzene-d5	77.6		27 - 109	78%	SPK: 100
321-60-8	2-Fluorobiphenyl	72.3		30 - 103	72%	SPK: 100
118-79-6	2,4,6-Tribromophenol	110		10 - 121	73%	SPK: 150
1718-51-0	Terphenyl-d14	80.3		21 - 107	80%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	205000	6.792			
1146-65-2	Naphthalene-d8	825000	8.069			
15067-26-2	Acenaphthene-d10	411000	9.822			
1517-22-2	Phenanthrene-d10	731000	11.31			
1719-03-5	Chrysene-d12	405000	13.951			
1520-96-3	Perylene-d12	445000	15.409			
TENTATIVE IDENTIFIED COMPOUNDS						
000126-86-3	2,4,7,9-Tetramethyl-5-decyn-4,7-di	130	J		9.27	ug/Kg
000057-10-3	n-Hexadecanoic acid	200	J		11.9	ug/Kg
000057-11-4	Octadecanoic acid	75.4	J		12.6	ug/Kg
074685-30-6	5-Eicosene, (E)-	230	J		13.8	ug/Kg
000192-97-2	Benzo[e]pyrene	75.4	J		15.3	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

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/13/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-07-(1-3)	SDG No.:	O3645
Lab Sample ID:	O3645-03	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	79.5
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BF134531.D	1	07/18/23 09:45	07/29/23 00:10	PB154258

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	410	U	190	410	ug/Kg
108-95-2	Phenol	210	U	93.4	210	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	210	U	110	210	ug/Kg
95-57-8	2-Chlorophenol	210	U	90.4	210	ug/Kg
95-48-7	2-Methylphenol	210	U	140	210	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	210	U	130	210	ug/Kg
98-86-2	Acetophenone	210	U	110	210	ug/Kg
65794-96-9	3+4-Methylphenols	410	U	140	410	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	100	U	74.0	100	ug/Kg
67-72-1	Hexachloroethane	210	U	92.4	210	ug/Kg
98-95-3	Nitrobenzene	210	U	94.4	210	ug/Kg
78-59-1	Isophorone	210	U	85.5	210	ug/Kg
88-75-5	2-Nitrophenol	210	U	120	210	ug/Kg
105-67-9	2,4-Dimethylphenol	210	U	120	210	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	210	U	140	210	ug/Kg
120-83-2	2,4-Dichlorophenol	210	U	98.0	210	ug/Kg
91-20-3	Naphthalene	210	U	100	210	ug/Kg
106-47-8	4-Chloroaniline	210	U	130	210	ug/Kg
87-68-3	Hexachlorobutadiene	210	U	110	210	ug/Kg
105-60-2	Caprolactam	410	U	150	410	ug/Kg
59-50-7	4-Chloro-3-methylphenol	210	U	100	210	ug/Kg
91-57-6	2-Methylnaphthalene	210	U	120	210	ug/Kg
77-47-4	Hexachlorocyclopentadiene	410	U	260	410	ug/Kg
88-06-2	2,4,6-Trichlorophenol	210	U	96.8	210	ug/Kg
95-95-4	2,4,5-Trichlorophenol	210	U	110	210	ug/Kg
92-52-4	1,1-Biphenyl	210	U	110	210	ug/Kg
91-58-7	2-Chloronaphthalene	210	U	110	210	ug/Kg
88-74-4	2-Nitroaniline	210	U	120	210	ug/Kg
131-11-3	Dimethylphthalate	210	U	110	210	ug/Kg
208-96-8	Acenaphthylene	210	U	110	210	ug/Kg
606-20-2	2,6-Dinitrotoluene	210	U	110	210	ug/Kg

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/13/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-07-(1-3)	SDG No.:	O3645
Lab Sample ID:	O3645-03	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	79.5
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BF134531.D	1	07/18/23 09:45	07/29/23 00:10	PB154258

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
99-09-2	3-Nitroaniline	210	U	120	210	ug/Kg
83-32-9	Acenaphthene	210	U	100	210	ug/Kg
51-28-5	2,4-Dinitrophenol	410	U	230	410	ug/Kg
100-02-7	4-Nitrophenol	410	U	140	410	ug/Kg
132-64-9	Dibenzofuran	210	U	96.5	210	ug/Kg
121-14-2	2,4-Dinitrotoluene	210	U	130	210	ug/Kg
84-66-2	Diethylphthalate	210	U	110	210	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	210	U	110	210	ug/Kg
86-73-7	Fluorene	210	U	110	210	ug/Kg
100-01-6	4-Nitroaniline	210	U	130	210	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	410	U	110	410	ug/Kg
86-30-6	n-Nitrosodiphenylamine	210	U	120	210	ug/Kg
101-55-3	4-Bromophenyl-phenylether	210	U	120	210	ug/Kg
118-74-1	Hexachlorobenzene	210	U	120	210	ug/Kg
1912-24-9	Atrazine	210	U	120	210	ug/Kg
87-86-5	Pentachlorophenol	410	U	140	410	ug/Kg
85-01-8	Phenanthrene	210	U	120	210	ug/Kg
120-12-7	Anthracene	210	U	130	210	ug/Kg
86-74-8	Carbazole	210	U	110	210	ug/Kg
84-74-2	Di-n-butylphthalate	210	U	130	210	ug/Kg
206-44-0	Fluoranthene	210	U	120	210	ug/Kg
129-00-0	Pyrene	210	U	110	210	ug/Kg
85-68-7	Butylbenzylphthalate	210	U	130	210	ug/Kg
91-94-1	3,3-Dichlorobenzidine	410	U	200	410	ug/Kg
56-55-3	Benzo(a)anthracene	210	U	110	210	ug/Kg
218-01-9	Chrysene	210	U	110	210	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	210	U	140	210	ug/Kg
117-84-0	Di-n-octyl phthalate	410	U	150	410	ug/Kg
205-99-2	Benzo(b)fluoranthene	210	U	100	210	ug/Kg
207-08-9	Benzo(k)fluoranthene	210	U	110	210	ug/Kg
50-32-8	Benzo(a)pyrene	210	U	120	210	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	210	U	130	210	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	210	U	120	210	ug/Kg

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Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/13/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-07-(1-3)	SDG No.:	O3645
Lab Sample ID:	O3645-03	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	79.5
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BF134531.D	1	07/18/23 09:45	07/29/23 00:10	PB154258

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
191-24-2	Benzo(g,h,i)perylene	210	U	120	210	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	210	U	110	210	ug/Kg
123-91-1	1,4-Dioxane	210	U	150	210	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	210	U	100	210	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	79.7		18 - 112	53%	SPK: 150
13127-88-3	Phenol-d6	77.7		21 - 104	52%	SPK: 150
4165-60-0	Nitrobenzene-d5	52.1		27 - 109	52%	SPK: 100
321-60-8	2-Fluorobiphenyl	53.1		30 - 103	53%	SPK: 100
118-79-6	2,4,6-Tribromophenol	66.0		10 - 121	44%	SPK: 150
1718-51-0	Terphenyl-d14	57.2		21 - 107	57%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	99600	6.828			
1146-65-2	Naphthalene-d8	368000	8.11			
15067-26-2	Acenaphthene-d10	164000	9.863			
1517-22-2	Phenanthrene-d10	267000	11.357			
1719-03-5	Chrysene-d12	176000	14.016			
1520-96-3	Perylene-d12	152000	15.515			
TENTATIVE IDENTIFIED COMPOUNDS						
000994-05-8	Butane, 2-methoxy-2-methyl-	410	J		2.13	ug/Kg
000057-10-3	n-Hexadecanoic acid	200	J		11.9	ug/Kg
015594-90-8	1-Heneicosanol	190	J		13.9	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

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/13/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-08-(0.5-2.0)	SDG No.:	O3645
Lab Sample ID:	O3645-04	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	74.6
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BF134556.D	1	07/18/23 09:45	08/01/23 19:24	PB154258

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	440	U	200	440	ug/Kg
108-95-2	Phenol	230	U	99.7	230	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	230	U	120	230	ug/Kg
95-57-8	2-Chlorophenol	230	U	96.5	230	ug/Kg
95-48-7	2-Methylphenol	230	U	150	230	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	230	U	140	230	ug/Kg
98-86-2	Acetophenone	230	U	120	230	ug/Kg
65794-96-9	3+4-Methylphenols	440	U	140	440	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	110	U	79.1	110	ug/Kg
67-72-1	Hexachloroethane	230	U	98.6	230	ug/Kg
98-95-3	Nitrobenzene	230	U	100	230	ug/Kg
78-59-1	Isophorone	230	U	91.3	230	ug/Kg
88-75-5	2-Nitrophenol	230	U	130	230	ug/Kg
105-67-9	2,4-Dimethylphenol	230	U	130	230	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	230	U	150	230	ug/Kg
120-83-2	2,4-Dichlorophenol	230	U	100	230	ug/Kg
91-20-3	Naphthalene	230	U	110	230	ug/Kg
106-47-8	4-Chloroaniline	230	U	140	230	ug/Kg
87-68-3	Hexachlorobutadiene	230	U	110	230	ug/Kg
105-60-2	Caprolactam	440	U	160	440	ug/Kg
59-50-7	4-Chloro-3-methylphenol	230	U	110	230	ug/Kg
91-57-6	2-Methylnaphthalene	230	U	130	230	ug/Kg
77-47-4	Hexachlorocyclopentadiene	440	U	280	440	ug/Kg
88-06-2	2,4,6-Trichlorophenol	230	U	100	230	ug/Kg
95-95-4	2,4,5-Trichlorophenol	230	U	120	230	ug/Kg
92-52-4	1,1-Biphenyl	230	U	120	230	ug/Kg
91-58-7	2-Chloronaphthalene	230	U	110	230	ug/Kg
88-74-4	2-Nitroaniline	230	U	130	230	ug/Kg
131-11-3	Dimethylphthalate	150	J	120	230	ug/Kg
208-96-8	Acenaphthylene	230	U	120	230	ug/Kg
606-20-2	2,6-Dinitrotoluene	230	U	120	230	ug/Kg

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/13/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-08-(0.5-2.0)	SDG No.:	O3645
Lab Sample ID:	O3645-04	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	74.6
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BF134556.D	1	07/18/23 09:45	08/01/23 19:24	PB154258

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
99-09-2	3-Nitroaniline	230	U	130	230	ug/Kg
83-32-9	Acenaphthene	230	U	110	230	ug/Kg
51-28-5	2,4-Dinitrophenol	440	U	240	440	ug/Kg
100-02-7	4-Nitrophenol	440	U	150	440	ug/Kg
132-64-9	Dibenzofuran	230	U	100	230	ug/Kg
121-14-2	2,4-Dinitrotoluene	230	U	130	230	ug/Kg
84-66-2	Diethylphthalate	230	U	120	230	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	230	U	120	230	ug/Kg
86-73-7	Fluorene	230	U	110	230	ug/Kg
100-01-6	4-Nitroaniline	230	U	140	230	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	440	U	120	440	ug/Kg
86-30-6	n-Nitrosodiphenylamine	230	U	130	230	ug/Kg
101-55-3	4-Bromophenyl-phenylether	230	U	130	230	ug/Kg
118-74-1	Hexachlorobenzene	230	U	130	230	ug/Kg
1912-24-9	Atrazine	230	U	130	230	ug/Kg
87-86-5	Pentachlorophenol	440	U	150	440	ug/Kg
85-01-8	Phenanthrene	450		120	230	ug/Kg
120-12-7	Anthracene	230	U	140	230	ug/Kg
86-74-8	Carbazole	230	U	110	230	ug/Kg
84-74-2	Di-n-butylphthalate	230	U	140	230	ug/Kg
206-44-0	Fluoranthene	660		130	230	ug/Kg
129-00-0	Pyrene	610		110	230	ug/Kg
85-68-7	Butylbenzylphthalate	230	U	140	230	ug/Kg
91-94-1	3,3-Dichlorobenzidine	440	U	220	440	ug/Kg
56-55-3	Benzo(a)anthracene	360		110	230	ug/Kg
218-01-9	Chrysene	370		120	230	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	230	U	150	230	ug/Kg
117-84-0	Di-n-octyl phthalate	440	U	160	440	ug/Kg
205-99-2	Benzo(b)fluoranthene	500		110	230	ug/Kg
207-08-9	Benzo(k)fluoranthene	150	J	120	230	ug/Kg
50-32-8	Benzo(a)pyrene	350		130	230	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	190	J	140	230	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	230	U	130	230	ug/Kg

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/13/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-08-(0.5-2.0)	SDG No.:	O3645
Lab Sample ID:	O3645-04	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	74.6
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BF134556.D	1	07/18/23 09:45	08/01/23 19:24	PB154258

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
191-24-2	Benzo(g,h,i)perylene	210	J	120	230	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	230	U	120	230	ug/Kg
123-91-1	1,4-Dioxane	230	U	160	230	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	230	U	110	230	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	94.6		18 - 112	63%	SPK: 150
13127-88-3	Phenol-d6	94.3		21 - 104	63%	SPK: 150
4165-60-0	Nitrobenzene-d5	72.6		27 - 109	73%	SPK: 100
321-60-8	2-Fluorobiphenyl	65.8		30 - 103	66%	SPK: 100
118-79-6	2,4,6-Tribromophenol	96.0		10 - 121	64%	SPK: 150
1718-51-0	Terphenyl-d14	65.2		21 - 107	65%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	187000	6.792			
1146-65-2	Naphthalene-d8	737000	8.069			
15067-26-2	Acenaphthene-d10	366000	9.822			
1517-22-2	Phenanthrene-d10	647000	11.31			
1719-03-5	Chrysene-d12	366000	13.951			
1520-96-3	Perylene-d12	423000	15.41			
TENTATIVE IDENTIFIED COMPOUNDS						
074645-98-0	Dodecane, 2,7,10-trimethyl-	91.1	J		10.8	ug/Kg
000057-10-3	n-Hexadecanoic acid	310	J		11.9	ug/Kg
000090-60-8	Benzaldehyde, 3,5-dichloro-2-hydro	120	J		11.9	ug/Kg
1000351-83-7	Tetracosyl heptafluorobutyrate	140	J		13.8	ug/Kg
000192-97-2	Benzo[e]pyrene	100	J		15.1	ug/Kg
000198-55-0	Perylene	270	J		15.3	ug/Kg

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Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/13/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-08-(0.5-2.0)	SDG No.:	O3645
Lab Sample ID:	O3645-04	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	74.6
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BF134556.D	1	07/18/23 09:45	08/01/23 19:24	PB154258

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

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/13/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-09-(2.0-4.0)	SDG No.:	O3645
Lab Sample ID:	O3645-05	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	79.4
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BG058572.D	1	07/18/23 09:45	08/02/23 10:39	PB154258

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	420	U	190	420	ug/Kg
108-95-2	Phenol	210	U	93.6	210	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	210	U	110	210	ug/Kg
95-57-8	2-Chlorophenol	210	U	90.6	210	ug/Kg
95-48-7	2-Methylphenol	210	U	140	210	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	210	U	130	210	ug/Kg
98-86-2	Acetophenone	210	U	110	210	ug/Kg
65794-96-9	3+4-Methylphenols	420	U	140	420	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	100	U	74.2	100	ug/Kg
67-72-1	Hexachloroethane	210	U	92.6	210	ug/Kg
98-95-3	Nitrobenzene	210	U	94.6	210	ug/Kg
78-59-1	Isophorone	210	U	85.7	210	ug/Kg
88-75-5	2-Nitrophenol	210	U	120	210	ug/Kg
105-67-9	2,4-Dimethylphenol	210	U	130	210	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	210	U	140	210	ug/Kg
120-83-2	2,4-Dichlorophenol	210	U	98.3	210	ug/Kg
91-20-3	Naphthalene	210	U	100	210	ug/Kg
106-47-8	4-Chloroaniline	210	U	130	210	ug/Kg
87-68-3	Hexachlorobutadiene	210	U	110	210	ug/Kg
105-60-2	Caprolactam	420	U	150	420	ug/Kg
59-50-7	4-Chloro-3-methylphenol	210	U	100	210	ug/Kg
91-57-6	2-Methylnaphthalene	210	U	120	210	ug/Kg
77-47-4	Hexachlorocyclopentadiene	420	U	260	420	ug/Kg
88-06-2	2,4,6-Trichlorophenol	210	U	97.0	210	ug/Kg
95-95-4	2,4,5-Trichlorophenol	210	U	110	210	ug/Kg
92-52-4	1,1-Biphenyl	210	U	110	210	ug/Kg
91-58-7	2-Chloronaphthalene	210	U	110	210	ug/Kg
88-74-4	2-Nitroaniline	210	U	120	210	ug/Kg
131-11-3	Dimethylphthalate	210	U	110	210	ug/Kg
208-96-8	Acenaphthylene	210	U	110	210	ug/Kg
606-20-2	2,6-Dinitrotoluene	210	U	110	210	ug/Kg

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/13/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-09-(2.0-4.0)	SDG No.:	O3645
Lab Sample ID:	O3645-05	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	79.4
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BG058572.D	1	07/18/23 09:45	08/02/23 10:39	PB154258

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
99-09-2	3-Nitroaniline	210	U	120	210	ug/Kg
83-32-9	Acenaphthene	210	U	100	210	ug/Kg
51-28-5	2,4-Dinitrophenol	420	U	230	420	ug/Kg
100-02-7	4-Nitrophenol	420	U	140	420	ug/Kg
132-64-9	Dibenzofuran	210	U	96.8	210	ug/Kg
121-14-2	2,4-Dinitrotoluene	210	U	130	210	ug/Kg
84-66-2	Diethylphthalate	210	U	110	210	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	210	U	110	210	ug/Kg
86-73-7	Fluorene	210	U	110	210	ug/Kg
100-01-6	4-Nitroaniline	210	U	130	210	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	420	U	110	420	ug/Kg
86-30-6	n-Nitrosodiphenylamine	210	U	120	210	ug/Kg
101-55-3	4-Bromophenyl-phenylether	210	U	120	210	ug/Kg
118-74-1	Hexachlorobenzene	210	U	120	210	ug/Kg
1912-24-9	Atrazine	210	U	120	210	ug/Kg
87-86-5	Pentachlorophenol	420	U	140	420	ug/Kg
85-01-8	Phenanthrene	210	U	120	210	ug/Kg
120-12-7	Anthracene	210	U	130	210	ug/Kg
86-74-8	Carbazole	210	U	110	210	ug/Kg
84-74-2	Di-n-butylphthalate	210	U	130	210	ug/Kg
206-44-0	Fluoranthene	210	U	120	210	ug/Kg
129-00-0	Pyrene	210	U	110	210	ug/Kg
85-68-7	Butylbenzylphthalate	210	U	130	210	ug/Kg
91-94-1	3,3-Dichlorobenzidine	420	U	200	420	ug/Kg
56-55-3	Benzo(a)anthracene	210	U	110	210	ug/Kg
218-01-9	Chrysene	210	U	110	210	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	210	U	140	210	ug/Kg
117-84-0	Di-n-octyl phthalate	420	U	150	420	ug/Kg
205-99-2	Benzo(b)fluoranthene	210	U	100	210	ug/Kg
207-08-9	Benzo(k)fluoranthene	210	U	110	210	ug/Kg
50-32-8	Benzo(a)pyrene	210	U	120	210	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	210	U	130	210	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	210	U	120	210	ug/Kg

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Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/13/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-09-(2.0-4.0)	SDG No.:	O3645
Lab Sample ID:	O3645-05	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	79.4
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BG058572.D	1	07/18/23 09:45	08/02/23 10:39	PB154258

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
191-24-2	Benzo(g,h,i)perylene	210	U	120	210	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	210	U	110	210	ug/Kg
123-91-1	1,4-Dioxane	210	U	150	210	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	210	U	100	210	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	112		18 - 112	74%	SPK: 150
13127-88-3	Phenol-d6	111		15 - 107	74%	SPK: 150
4165-60-0	Nitrobenzene-d5	67.6		18 - 107	68%	SPK: 100
321-60-8	2-Fluorobiphenyl	67.9		20 - 109	68%	SPK: 100
118-79-6	2,4,6-Tribromophenol	93.4		10 - 110	62%	SPK: 150
1718-51-0	Terphenyl-d14	73.5		14 - 112	74%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	58200	7.814			
1146-65-2	Naphthalene-d8	255000	10.617			
15067-26-2	Acenaphthene-d10	173000	14.459			
1517-22-2	Phenanthrene-d10	389000	17.209			
1719-03-5	Chrysene-d12	336000	21.451			
1520-96-3	Perylene-d12	415000	24.524			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	110	AB		4.91	ug/Kg
000057-10-3	n-Hexadecanoic acid	110	J		18.1	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

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/13/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-10-(0.5-2.0)	SDG No.:	O3645
Lab Sample ID:	O3645-06	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	83.3
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BF134566.D	1	07/18/23 09:45	08/02/23 00:41	PB154258

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	400	U	180	400	ug/Kg
108-95-2	Phenol	200	U	89.2	200	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	200	U	110	200	ug/Kg
95-57-8	2-Chlorophenol	200	U	86.3	200	ug/Kg
95-48-7	2-Methylphenol	200	U	140	200	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	200	U	130	200	ug/Kg
98-86-2	Acetophenone	200	U	100	200	ug/Kg
65794-96-9	3+4-Methylphenols	400	U	130	400	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	95.9	U	70.7	95.9	ug/Kg
67-72-1	Hexachloroethane	200	U	88.2	200	ug/Kg
98-95-3	Nitrobenzene	200	U	90.1	200	ug/Kg
78-59-1	Isophorone	200	U	81.6	200	ug/Kg
88-75-5	2-Nitrophenol	200	U	110	200	ug/Kg
105-67-9	2,4-Dimethylphenol	200	U	120	200	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	200	U	130	200	ug/Kg
120-83-2	2,4-Dichlorophenol	200	U	93.6	200	ug/Kg
91-20-3	Naphthalene	270		97.6	200	ug/Kg
106-47-8	4-Chloroaniline	200	U	130	200	ug/Kg
87-68-3	Hexachlorobutadiene	200	U	100	200	ug/Kg
105-60-2	Caprolactam	400	U	140	400	ug/Kg
59-50-7	4-Chloro-3-methylphenol	200	U	98.9	200	ug/Kg
91-57-6	2-Methylnaphthalene	200		110	200	ug/Kg
77-47-4	Hexachlorocyclopentadiene	400	U	250	400	ug/Kg
88-06-2	2,4,6-Trichlorophenol	200	U	92.4	200	ug/Kg
95-95-4	2,4,5-Trichlorophenol	200	U	110	200	ug/Kg
92-52-4	1,1-Biphenyl	200	U	110	200	ug/Kg
91-58-7	2-Chloronaphthalene	200	U	100	200	ug/Kg
88-74-4	2-Nitroaniline	200	U	120	200	ug/Kg
131-11-3	Dimethylphthalate	130	J	110	200	ug/Kg
208-96-8	Acenaphthylene	120	J	110	200	ug/Kg
606-20-2	2,6-Dinitrotoluene	200	U	110	200	ug/Kg

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/13/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-10-(0.5-2.0)	SDG No.:	O3645
Lab Sample ID:	O3645-06	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	83.3
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BF134566.D	1	07/18/23 09:45	08/02/23 00:41	PB154258

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
99-09-2	3-Nitroaniline	200	U	110	200	ug/Kg
83-32-9	Acenaphthene	260		96.2	200	ug/Kg
51-28-5	2,4-Dinitrophenol	400	U	220	400	ug/Kg
100-02-7	4-Nitrophenol	400	U	140	400	ug/Kg
132-64-9	Dibenzofuran	220		92.2	200	ug/Kg
121-14-2	2,4-Dinitrotoluene	200	U	120	200	ug/Kg
84-66-2	Diethylphthalate	200	U	100	200	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	200	U	110	200	ug/Kg
86-73-7	Fluorene	290		100	200	ug/Kg
100-01-6	4-Nitroaniline	200	U	120	200	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	400	U	110	400	ug/Kg
86-30-6	n-Nitrosodiphenylamine	200	U	110	200	ug/Kg
101-55-3	4-Bromophenyl-phenylether	200	U	120	200	ug/Kg
118-74-1	Hexachlorobenzene	200	U	120	200	ug/Kg
1912-24-9	Atrazine	200	U	110	200	ug/Kg
87-86-5	Pentachlorophenol	400	U	130	400	ug/Kg
85-01-8	Phenanthrene	2900		110	200	ug/Kg
120-12-7	Anthracene	790		120	200	ug/Kg
86-74-8	Carbazole	430		100	200	ug/Kg
84-74-2	Di-n-butylphthalate	120	J	120	200	ug/Kg
206-44-0	Fluoranthene	3400	E	110	200	ug/Kg
129-00-0	Pyrene	3100		100	200	ug/Kg
85-68-7	Butylbenzylphthalate	200	U	120	200	ug/Kg
91-94-1	3,3-Dichlorobenzidine	400	U	190	400	ug/Kg
56-55-3	Benzo(a)anthracene	1800		100	200	ug/Kg
218-01-9	Chrysene	1900		100	200	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	200	U	140	200	ug/Kg
117-84-0	Di-n-octyl phthalate	400	U	150	400	ug/Kg
205-99-2	Benzo(b)fluoranthene	2400		96.2	200	ug/Kg
207-08-9	Benzo(k)fluoranthene	880		110	200	ug/Kg
50-32-8	Benzo(a)pyrene	1700		110	200	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1000		130	200	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	320		120	200	ug/Kg

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/13/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-10-(0.5-2.0)	SDG No.:	O3645
Lab Sample ID:	O3645-06	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	83.3
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BF134566.D	1	07/18/23 09:45	08/02/23 00:41	PB154258

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
191-24-2	Benzo(g,h,i)perylene	1200		110	200	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U	110	200	ug/Kg
123-91-1	1,4-Dioxane	200	U	140	200	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	200	U	99.4	200	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	104		18 - 112	70%	SPK: 150
13127-88-3	Phenol-d6	103		21 - 104	69%	SPK: 150
4165-60-0	Nitrobenzene-d5	87.4		27 - 109	87%	SPK: 100
321-60-8	2-Fluorobiphenyl	86.6		30 - 103	87%	SPK: 100
118-79-6	2,4,6-Tribromophenol	106		10 - 121	70%	SPK: 150
1718-51-0	Terphenyl-d14	86.5		21 - 107	86%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	186000	6.793			
1146-65-2	Naphthalene-d8	688000	8.069			
15067-26-2	Acenaphthene-d10	289000	9.828			
1517-22-2	Phenanthrene-d10	478000	11.316			
1719-03-5	Chrysene-d12	297000	13.969			
1520-96-3	Perylene-d12	259000	15.427			
TENTATIVE IDENTIFIED COMPOUNDS						
90-12-0	1-Methylnaphthalene	150	J		8.88	ug/Kg
000544-76-3	Hexadecane	440	J		9.23	ug/Kg
1000309-17-6	Sulfurous acid, butyl nonyl ester	290	J		9.77	ug/Kg
013798-23-7	Hexathiane	310	J		10.1	ug/Kg
055045-10-8	Tridecane, 6-propyl-	560	J		10.7	ug/Kg
000629-59-4	Tetradecane	440	J		11.2	ug/Kg
000629-92-5	Nonadecane	500	J		11.6	ug/Kg
000613-12-7	Anthracene, 2-methyl-	330	J		11.8	ug/Kg
000112-95-8	Eicosane	610	J		12.0	ug/Kg
000612-94-2	Naphthalene, 2-phenyl-	440	J		12.1	ug/Kg
000629-94-7	Heneicosane	950	J		12.4	ug/Kg
000057-11-4	Octadecanoic acid	440	J		12.7	ug/Kg
000629-99-2	Pentacosane	580	J		13.2	ug/Kg

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Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/13/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-10-(0.5-2.0)	SDG No.:	O3645
Lab Sample ID:	O3645-06	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	83.3
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BF134566.D	1	07/18/23 09:45	08/02/23 00:41	PB154258

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
000630-01-3	Hexacosane	510	J		13.5	ug/Kg
001740-19-8	Dehydroabietic acid	260	J		13.8	ug/Kg
000646-31-1	Tetracosane	500	J		13.8	ug/Kg
054833-23-7	Eicosane, 10-methyl-	390	J		14.2	ug/Kg
000638-68-6	Triacontane	330	J		14.5	ug/Kg
000629-78-7	Heptadecane	2000	J		14.8	ug/Kg
000192-97-2	Benzo[e]pyrene	2000	J		15.1	ug/Kg
000198-55-0	Perylene	2400	J		15.3	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

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/13/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-10-(0.5-2.0)DL	SDG No.:	O3645
Lab Sample ID:	O3645-06DL	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	83.3
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BF134565.D	5	07/18/23 09:45	08/02/23 00:09	PB154258

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	2000	UD	890	2000	ug/Kg
108-95-2	Phenol	1000	UD	450	1000	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1000	UD	540	1000	ug/Kg
95-57-8	2-Chlorophenol	1000	UD	430	1000	ug/Kg
95-48-7	2-Methylphenol	1000	UD	680	1000	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1000	UD	630	1000	ug/Kg
98-86-2	Acetophenone	1000	UD	520	1000	ug/Kg
65794-96-9	3+4-Methylphenols	2000	UD	650	2000	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	480	UD	350	480	ug/Kg
67-72-1	Hexachloroethane	1000	UD	440	1000	ug/Kg
98-95-3	Nitrobenzene	1000	UD	450	1000	ug/Kg
78-59-1	Isophorone	1000	UD	410	1000	ug/Kg
88-75-5	2-Nitrophenol	1000	UD	570	1000	ug/Kg
105-67-9	2,4-Dimethylphenol	1000	UD	600	1000	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1000	UD	670	1000	ug/Kg
120-83-2	2,4-Dichlorophenol	1000	UD	470	1000	ug/Kg
91-20-3	Naphthalene	1000	UD	490	1000	ug/Kg
106-47-8	4-Chloroaniline	1000	UD	630	1000	ug/Kg
87-68-3	Hexachlorobutadiene	1000	UD	500	1000	ug/Kg
105-60-2	Caprolactam	2000	UD	700	2000	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1000	UD	490	1000	ug/Kg
91-57-6	2-Methylnaphthalene	1000	UD	570	1000	ug/Kg
77-47-4	Hexachlorocyclopentadiene	2000	UD	1300	2000	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1000	UD	460	1000	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1000	UD	530	1000	ug/Kg
92-52-4	1,1-Biphenyl	1000	UD	550	1000	ug/Kg
91-58-7	2-Chloronaphthalene	1000	UD	510	1000	ug/Kg
88-74-4	2-Nitroaniline	1000	UD	600	1000	ug/Kg
131-11-3	Dimethylphthalate	1000	UD	530	1000	ug/Kg
208-96-8	Acenaphthylene	1000	UD	530	1000	ug/Kg
606-20-2	2,6-Dinitrotoluene	1000	UD	540	1000	ug/Kg

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/13/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-10-(0.5-2.0)DL	SDG No.:	O3645
Lab Sample ID:	O3645-06DL	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	83.3
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BF134565.D	5	07/18/23 09:45	08/02/23 00:09	PB154258

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
99-09-2	3-Nitroaniline	1000	UD	560	1000	ug/Kg
83-32-9	Acenaphthene	1000	UD	480	1000	ug/Kg
51-28-5	2,4-Dinitrophenol	2000	UD	1100	2000	ug/Kg
100-02-7	4-Nitrophenol	2000	UD	680	2000	ug/Kg
132-64-9	Dibenzofuran	1000	UD	460	1000	ug/Kg
121-14-2	2,4-Dinitrotoluene	1000	UD	600	1000	ug/Kg
84-66-2	Diethylphthalate	1000	UD	510	1000	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1000	UD	540	1000	ug/Kg
86-73-7	Fluorene	1000	UD	510	1000	ug/Kg
100-01-6	4-Nitroaniline	1000	UD	620	1000	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	2000	UD	530	2000	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1000	UD	560	1000	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1000	UD	580	1000	ug/Kg
118-74-1	Hexachlorobenzene	1000	UD	590	1000	ug/Kg
1912-24-9	Atrazine	1000	UD	570	1000	ug/Kg
87-86-5	Pentachlorophenol	2000	UD	670	2000	ug/Kg
85-01-8	Phenanthrene	3500	D	560	1000	ug/Kg
120-12-7	Anthracene	810	JD	610	1000	ug/Kg
86-74-8	Carbazole	1000	UD	510	1000	ug/Kg
84-74-2	Di-n-butylphthalate	1000	UD	620	1000	ug/Kg
206-44-0	Fluoranthene	4400	D	570	1000	ug/Kg
129-00-0	Pyrene	3100	D	500	1000	ug/Kg
85-68-7	Butylbenzylphthalate	1000	UD	620	1000	ug/Kg
91-94-1	3,3-Dichlorobenzidine	2000	UD	960	2000	ug/Kg
56-55-3	Benzo(a)anthracene	2000	D	500	1000	ug/Kg
218-01-9	Chrysene	1900	D	520	1000	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1000	UD	690	1000	ug/Kg
117-84-0	Di-n-octyl phthalate	2000	UD	740	2000	ug/Kg
205-99-2	Benzo(b)fluoranthene	2700	D	480	1000	ug/Kg
207-08-9	Benzo(k)fluoranthene	820	JD	530	1000	ug/Kg
50-32-8	Benzo(a)pyrene	1800	D	570	1000	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	970	JD	640	1000	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1000	UD	580	1000	ug/Kg

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Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/13/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-10-(0.5-2.0)DL	SDG No.:	O3645
Lab Sample ID:	O3645-06DL	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	83.3
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BF134565.D	5	07/18/23 09:45	08/02/23 00:09	PB154258

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
191-24-2	Benzo(g,h,i)perylene	1100	D	550	1000	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1000	UD	540	1000	ug/Kg
123-91-1	1,4-Dioxane	1000	UD	700	1000	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1000	UD	500	1000	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	119		18 - 112	79%	SPK: 150
13127-88-3	Phenol-d6	119		21 - 104	79%	SPK: 150
4165-60-0	Nitrobenzene-d5	91.3		27 - 109	91%	SPK: 100
321-60-8	2-Fluorobiphenyl	106	*	30 - 103	106%	SPK: 100
118-79-6	2,4,6-Tribromophenol	104		10 - 121	69%	SPK: 150
1718-51-0	Terphenyl-d14	84.8		21 - 107	85%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	176000	6.792			
1146-65-2	Naphthalene-d8	669000	8.069			
15067-26-2	Acenaphthene-d10	288000	9.822			
1517-22-2	Phenanthrene-d10	447000	11.31			
1719-03-5	Chrysene-d12	336000	13.957			
1520-96-3	Perylene-d12	267000	15.415			

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

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/12/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	DUP	SDG No.:	O3645
Lab Sample ID:	O3645-07	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	80.8
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BG058571.D	1	07/18/23 09:45	08/02/23 09:59	PB154258

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	410	U	180	410	ug/Kg
108-95-2	Phenol	210	U	92.0	210	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	210	U	110	210	ug/Kg
95-57-8	2-Chlorophenol	210	U	89.0	210	ug/Kg
95-48-7	2-Methylphenol	210	U	140	210	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	210	U	130	210	ug/Kg
98-86-2	Acetophenone	210	U	110	210	ug/Kg
65794-96-9	3+4-Methylphenols	410	U	130	410	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	98.9	U	73.0	98.9	ug/Kg
67-72-1	Hexachloroethane	210	U	91.0	210	ug/Kg
98-95-3	Nitrobenzene	210	U	93.0	210	ug/Kg
78-59-1	Isophorone	210	U	84.2	210	ug/Kg
88-75-5	2-Nitrophenol	210	U	120	210	ug/Kg
105-67-9	2,4-Dimethylphenol	210	U	120	210	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	210	U	140	210	ug/Kg
120-83-2	2,4-Dichlorophenol	210	U	96.6	210	ug/Kg
91-20-3	Naphthalene	210	U	100	210	ug/Kg
106-47-8	4-Chloroaniline	210	U	130	210	ug/Kg
87-68-3	Hexachlorobutadiene	210	U	100	210	ug/Kg
105-60-2	Caprolactam	410	U	140	410	ug/Kg
59-50-7	4-Chloro-3-methylphenol	210	U	100	210	ug/Kg
91-57-6	2-Methylnaphthalene	210	U	120	210	ug/Kg
77-47-4	Hexachlorocyclopentadiene	410	U	260	410	ug/Kg
88-06-2	2,4,6-Trichlorophenol	210	U	95.4	210	ug/Kg
95-95-4	2,4,5-Trichlorophenol	210	U	110	210	ug/Kg
92-52-4	1,1-Biphenyl	210	U	110	210	ug/Kg
91-58-7	2-Chloronaphthalene	210	U	100	210	ug/Kg
88-74-4	2-Nitroaniline	210	U	120	210	ug/Kg
131-11-3	Dimethylphthalate	210	U	110	210	ug/Kg
208-96-8	Acenaphthylene	210	U	110	210	ug/Kg
606-20-2	2,6-Dinitrotoluene	210	U	110	210	ug/Kg

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Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/12/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	DUP	SDG No.:	O3645
Lab Sample ID:	O3645-07	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	80.8
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BG058571.D	1	07/18/23 09:45	08/02/23 09:59	PB154258

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
99-09-2	3-Nitroaniline	210	U	120	210	ug/Kg
83-32-9	Acenaphthene	210	U	99.3	210	ug/Kg
51-28-5	2,4-Dinitrophenol	410	U	220	410	ug/Kg
100-02-7	4-Nitrophenol	410	U	140	410	ug/Kg
132-64-9	Dibenzofuran	210	U	95.1	210	ug/Kg
121-14-2	2,4-Dinitrotoluene	210	U	120	210	ug/Kg
84-66-2	Diethylphthalate	210	U	110	210	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	210	U	110	210	ug/Kg
86-73-7	Fluorene	210	U	100	210	ug/Kg
100-01-6	4-Nitroaniline	210	U	130	210	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	410	U	110	410	ug/Kg
86-30-6	n-Nitrosodiphenylamine	210	U	120	210	ug/Kg
101-55-3	4-Bromophenyl-phenylether	210	U	120	210	ug/Kg
118-74-1	Hexachlorobenzene	210	U	120	210	ug/Kg
1912-24-9	Atrazine	210	U	120	210	ug/Kg
87-86-5	Pentachlorophenol	410	U	140	410	ug/Kg
85-01-8	Phenanthrene	210	U	110	210	ug/Kg
120-12-7	Anthracene	210	U	130	210	ug/Kg
86-74-8	Carbazole	210	U	110	210	ug/Kg
84-74-2	Di-n-butylphthalate	210	U	130	210	ug/Kg
206-44-0	Fluoranthene	210	U	120	210	ug/Kg
129-00-0	Pyrene	210	U	100	210	ug/Kg
85-68-7	Butylbenzylphthalate	210	U	130	210	ug/Kg
91-94-1	3,3-Dichlorobenzidine	410	U	200	410	ug/Kg
56-55-3	Benzo(a)anthracene	210	U	100	210	ug/Kg
218-01-9	Chrysene	210	U	110	210	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	210	U	140	210	ug/Kg
117-84-0	Di-n-octyl phthalate	410	U	150	410	ug/Kg
205-99-2	Benzo(b)fluoranthene	210	U	99.3	210	ug/Kg
207-08-9	Benzo(k)fluoranthene	210	U	110	210	ug/Kg
50-32-8	Benzo(a)pyrene	210	U	120	210	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	210	U	130	210	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	210	U	120	210	ug/Kg

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Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/12/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	DUP	SDG No.:	O3645
Lab Sample ID:	O3645-07	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	80.8
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BG058571.D	1	07/18/23 09:45	08/02/23 09:59	PB154258

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
191-24-2	Benzo(g,h,i)perylene	210	U	110	210	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	210	U	110	210	ug/Kg
123-91-1	1,4-Dioxane	210	U	140	210	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	210	U	100	210	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	120		18 - 112	80%	SPK: 150
13127-88-3	Phenol-d6	118		15 - 107	78%	SPK: 150
4165-60-0	Nitrobenzene-d5	72.1		18 - 107	72%	SPK: 100
321-60-8	2-Fluorobiphenyl	70.9		20 - 109	71%	SPK: 100
118-79-6	2,4,6-Tribromophenol	97.4		10 - 110	65%	SPK: 150
1718-51-0	Terphenyl-d14	76.5		14 - 112	76%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	54100	7.811			
1146-65-2	Naphthalene-d8	235000	10.614			
15067-26-2	Acenaphthene-d10	165000	14.462			
1517-22-2	Phenanthrene-d10	370000	17.206			
1719-03-5	Chrysene-d12	322000	21.448			
1520-96-3	Perylene-d12	402000	24.521			
TENTATIVE IDENTIFIED COMPOUNDS						
000057-10-3	n-Hexadecanoic acid	130	J		18.1	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:	LaBella Associates P.C.	Date Collected:	07/12/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	RINSATE-BLANK	SDG No.:	O3645
Lab Sample ID:	O3645-08	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF134528.D	1	07/17/23 10:17	07/28/23 22:17	PB154218

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	10.0	U	3.30	10.0	ug/L
108-95-2	Phenol	5.00	U	1.50	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	5.00	U	1.70	5.00	ug/L
95-57-8	2-Chlorophenol	5.00	U	1.40	5.00	ug/L
95-48-7	2-Methylphenol	5.00	U	2.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	5.00	UQ	2.30	5.00	ug/L
98-86-2	Acetophenone	5.00	U	1.80	5.00	ug/L
65794-96-9	3+4-Methylphenols	10.0	U	2.20	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	2.50	U	2.00	2.50	ug/L
67-72-1	Hexachloroethane	5.00	UQ	1.60	5.00	ug/L
98-95-3	Nitrobenzene	5.00	U	1.70	5.00	ug/L
78-59-1	Isophorone	5.00	U	1.70	5.00	ug/L
88-75-5	2-Nitrophenol	5.00	U	2.40	5.00	ug/L
105-67-9	2,4-Dimethylphenol	5.00	U	3.00	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	5.00	U	2.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	5.00	U	1.70	5.00	ug/L
91-20-3	Naphthalene	5.00	U	1.70	5.00	ug/L
106-47-8	4-Chloroaniline	5.00	U	2.50	5.00	ug/L
87-68-3	Hexachlorobutadiene	5.00	U	1.90	5.00	ug/L
105-60-2	Caprolactam	10.0	U	3.40	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	5.00	U	1.80	5.00	ug/L
91-57-6	2-Methylnaphthalene	5.00	U	2.20	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	10.0	U	5.70	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	5.00	U	1.50	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	5.00	U	1.60	5.00	ug/L
92-52-4	1,1-Biphenyl	5.00	U	1.80	5.00	ug/L
91-58-7	2-Chloronaphthalene	5.00	U	1.60	5.00	ug/L
88-74-4	2-Nitroaniline	5.00	U	2.40	5.00	ug/L
131-11-3	Dimethylphthalate	5.00	U	1.90	5.00	ug/L
208-96-8	Acenaphthylene	5.00	U	2.10	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	5.00	U	2.10	5.00	ug/L

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/12/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	RINSATE-BLANK	SDG No.:	O3645
Lab Sample ID:	O3645-08	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF134528.D	1	07/17/23 08:30	07/28/23 22:17	PB154218

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	5.00	U	2.40	5.00	ug/L
83-32-9	Acenaphthene	5.00	U	1.70	5.00	ug/L
51-28-5	2,4-Dinitrophenol	10.0	U	5.50	10.0	ug/L
100-02-7	4-Nitrophenol	10.0	UQ	2.80	10.0	ug/L
132-64-9	Dibenzofuran	5.00	U	1.60	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	5.00	U	2.50	5.00	ug/L
84-66-2	Diethylphthalate	5.00	U	2.10	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	5.00	U	2.20	5.00	ug/L
86-73-7	Fluorene	5.00	U	2.00	5.00	ug/L
100-01-6	4-Nitroaniline	5.00	U	2.30	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	10.0	U	1.80	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	5.00	U	2.00	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	5.00	U	2.00	5.00	ug/L
118-74-1	Hexachlorobenzene	5.00	U	1.90	5.00	ug/L
1912-24-9	Atrazine	5.00	U	3.50	5.00	ug/L
87-86-5	Pentachlorophenol	10.0	U	2.60	10.0	ug/L
85-01-8	Phenanthrene	5.00	U	2.00	5.00	ug/L
120-12-7	Anthracene	5.00	U	2.30	5.00	ug/L
86-74-8	Carbazole	5.00	U	1.70	5.00	ug/L
84-74-2	Di-n-butylphthalate	5.00	U	2.40	5.00	ug/L
206-44-0	Fluoranthene	5.00	U	2.10	5.00	ug/L
129-00-0	Pyrene	5.00	U	1.90	5.00	ug/L
85-68-7	Butylbenzylphthalate	5.00	UQ	2.80	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	10.0	U	5.40	10.0	ug/L
56-55-3	Benzo(a)anthracene	5.00	U	1.50	5.00	ug/L
218-01-9	Chrysene	5.00	U	1.60	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	5.00	U	2.90	5.00	ug/L
117-84-0	Di-n-octyl phthalate	10.0	U	3.10	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	5.00	U	1.50	5.00	ug/L
207-08-9	Benzo(k)fluoranthene	5.00	U	1.90	5.00	ug/L
50-32-8	Benzo(a)pyrene	5.00	U	2.70	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	5.00	U	2.10	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	5.00	U	2.00	5.00	ug/L

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Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/12/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	RINSATE-BLANK	SDG No.:	O3645
Lab Sample ID:	O3645-08	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF134528.D	1	07/17/23 08:30	07/28/23 22:17	PB154218

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
191-24-2	Benzo(g,h,i)perylene	5.00	U	1.90	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	5.00	U	2.10	5.00	ug/L
123-91-1	1,4-Dioxane	5.00	U	2.40	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	5.00	U	1.30	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	54.5		10 - 139	36%	SPK: 150
13127-88-3	Phenol-d6	33.2		10 - 134	22%	SPK: 150
4165-60-0	Nitrobenzene-d5	142	*	49 - 133	142%	SPK: 100
321-60-8	2-Fluorobiphenyl	93.9		52 - 132	94%	SPK: 100
118-79-6	2,4,6-Tribromophenol	98.3		45 - 141	66%	SPK: 150
1718-51-0	Terphenyl-d14	98.8		45 - 142	99%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	116000	6.828			
1146-65-2	Naphthalene-d8	262000	8.11			
15067-26-2	Acenaphthene-d10	137000	9.863			
1517-22-2	Phenanthrene-d10	224000	11.357			
1719-03-5	Chrysene-d12	150000	14.015			
1520-96-3	Perylene-d12	126000	15.515			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	3.10	AB		5.07	ug/L

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

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Surrogate Summary

SW-846

SDG No.: O3645

Client: LaBella Associates P.C.

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
O3645-08	RINSATE-BLANK	2-Fluorophenol	150	54.5	36		10	139
		Phenol-d6	150	33.2	22		10	134
		Nitrobenzene-d5	100	142	142	*	49	133
		2-Fluorobiphenyl	100	93.9	94		52	132
		2,4,6-Tribromophenol	150	98.3	66		45	141
		Terphenyl-d14	100	98.8	99		45	142
PB154218BL	PB154218BL	2-Fluorophenol	150	143	96		10	139
		Phenol-d6	150	135	90		10	134
		Nitrobenzene-d5	100	92.0	92		49	133
		2-Fluorobiphenyl	100	89.5	89		52	132
		2,4,6-Tribromophenol	150	110	74		45	141
		Terphenyl-d14	100	102	102		45	142
PB154218BS	PB154218BS	2-Fluorophenol	150	175	116		10	139
		Phenol-d6	150	166	111		10	134
		Nitrobenzene-d5	100	107	107		49	133
		2-Fluorobiphenyl	100	101	101		52	132
		2,4,6-Tribromophenol	150	135	90		45	141
		Terphenyl-d14	100	113	113		45	142
PB154218BSD	PB154218BSD	2-Fluorophenol	150	175	117		10	139
		Phenol-d6	150	165	110		10	134
		Nitrobenzene-d5	100	107	107		49	133
		2-Fluorobiphenyl	100	101	101		52	132
		2,4,6-Tribromophenol	150	136	91		45	141
		Terphenyl-d14	100	112	112		45	142

Surrogate Summary

SW-846

SDG No.: O3645

Client: LaBella Associates P.C.

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
O3645-01	SB-02-(3-5)	2-Fluorophenol	150	127	85		18	112
		Phenol-d6	150	125	83		21	104
		Nitrobenzene-d5	100	77.7	78		27	109
		2-Fluorobiphenyl	100	86.6	87		30	103
		2,4,6-Tribromophenol	150	99.7	66		10	121
		Terphenyl-d14	100	80.0	80		21	107
O3645-02	SB-04-(1-5)	2-Fluorophenol	150	98.7	66		18	112
		Phenol-d6	150	101	67		21	104
		Nitrobenzene-d5	100	77.6	78		27	109
		2-Fluorobiphenyl	100	72.3	72		30	103
		2,4,6-Tribromophenol	150	110	73		10	121
		Terphenyl-d14	100	80.3	80		21	107
O3645-03	SB-07-(1-3)	2-Fluorophenol	150	79.7	53		18	112
		Phenol-d6	150	77.7	52		21	104
		Nitrobenzene-d5	100	52.1	52		27	109
		2-Fluorobiphenyl	100	53.1	53		30	103
		2,4,6-Tribromophenol	150	66.0	44		10	121
		Terphenyl-d14	100	57.2	57		21	107
O3645-04	SB-08-(0.5-2.0)	2-Fluorophenol	150	94.6	63		18	112
		Phenol-d6	150	94.3	63		21	104
		Nitrobenzene-d5	100	72.6	73		27	109
		2-Fluorobiphenyl	100	65.8	66		30	103
		2,4,6-Tribromophenol	150	96.0	64		10	121
		Terphenyl-d14	100	65.2	65		21	107
O3645-05	SB-09-(2.0-4.0)	2-Fluorophenol	150	112	74		18	112
		Phenol-d6	150	111	74		15	107
		Nitrobenzene-d5	100	67.6	68		18	107
		2-Fluorobiphenyl	100	67.9	68		20	109
		2,4,6-Tribromophenol	150	93.4	62		10	110
		Terphenyl-d14	100	73.5	74		14	112
O3645-06	SB-10-(0.5-2.0)	2-Fluorophenol	150	104	70		18	112
		Phenol-d6	150	103	69		21	104
		Nitrobenzene-d5	100	87.4	87		27	109
		2-Fluorobiphenyl	100	86.6	87		30	103
		2,4,6-Tribromophenol	150	106	70		10	121
		Terphenyl-d14	100	86.5	86		21	107
O3645-06DL	SB-10-(0.5-2.0)DL	2-Fluorophenol	150	119	79		18	112
		Phenol-d6	150	119	79		21	104
		Nitrobenzene-d5	100	91.3	91		27	109
		2-Fluorobiphenyl	100	106	106	*	30	103
		2,4,6-Tribromophenol	150	104	69		10	121
		Terphenyl-d14	100	84.8	85		21	107
O3645-07	DUP	2-Fluorophenol	150	120	80		18	112
		Phenol-d6	150	118	78		15	107
		Nitrobenzene-d5	100	72.1	72		18	107
		2-Fluorobiphenyl	100	70.9	71		20	109
		2,4,6-Tribromophenol	150	97.4	65		10	110
		Terphenyl-d14	100	76.5	76		14	112
O3645-09MS	SB-04-(1-5)MS	2-Fluorophenol	150	98.9	66		18	112
		Phenol-d6	150	101	68		21	104
		Nitrobenzene-d5	100	64.1	64		27	109
		2-Fluorobiphenyl	100	63.7	64		30	103

Surrogate Summary

SW-846

SDG No.: O3645

Client: LaBella Associates P.C.

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
O3645-09MS	SB-04-(1-5)MS	2,4,6-Tribromophenol	150	104	70		10	121
		Terphenyl-d14	100	70.4	70		21	107
O3645-10MSD	SB-04-(1-5)MSD	2-Fluorophenol	150	98.6	66		18	112
		Phenol-d6	150	101	68		21	104
		Nitrobenzene-d5	100	65.1	65		27	109
		2-Fluorobiphenyl	100	65.3	65		30	103
		2,4,6-Tribromophenol	150	106	71		10	121
		Terphenyl-d14	100	71.1	71		21	107
PB154258BL	PB154258BL	2-Fluorophenol	150	163	109		18	112
		Phenol-d6	150	128	85		21	104
		Nitrobenzene-d5	100	92.1	92		27	109
		2-Fluorobiphenyl	100	89.6	90		30	103
		2,4,6-Tribromophenol	150	149	100		10	121
		Terphenyl-d14	100	84.1	84		21	107
PB154258BS	PB154258BS	2-Fluorophenol	150	120	80		18	112
		Phenol-d6	150	116	77		21	104
		Nitrobenzene-d5	100	80.7	81		27	109
		2-Fluorobiphenyl	100	83.8	84		30	103
		2,4,6-Tribromophenol	150	127	85		10	121
		Terphenyl-d14	100	80.1	80		21	107

Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: O3645

Client: LaBella Associates P.C.

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: O3645-09MS		**Client Sample ID: SB-04-(1-5)MS**						**DataFile: BM041174.D**			
Benzaldehyde	1800	0	1700	ug/Kg	94				26	163	
Phenol	1800	0	1800	ug/Kg	100				67	126	
bis(2-Chloroethyl)ether	1800	0	1700	ug/Kg	94				74	116	
2-Chlorophenol	1800	0	1700	ug/Kg	94				61	138	
2-Methylphenol	1800	0	1600	ug/Kg	89				66	122	
2,2-oxybis(1-Chloropropane)	1800	0	1700	ug/Kg	94				52	115	
Acetophenone	1800	0	1600	ug/Kg	89				75	111	
3+4-Methylphenols	1800	0	1700	ug/Kg	94				53	132	
N-Nitroso-di-n-propylamine	1800	0	1700	ug/Kg	94				59	119	
Hexachloroethane	1800	0	1700	ug/Kg	94				65	117	
Nitrobenzene	1800	0	1600	ug/Kg	89				70	119	
Isophorone	1800	0	1600	ug/Kg	89				76	122	
2-Nitrophenol	1800	0	1700	ug/Kg	94				54	145	
2,4-Dimethylphenol	1800	0	1700	ug/Kg	94				83	144	
bis(2-Chloroethoxy)methane	1800	0	1600	ug/Kg	89				68	112	
2,4-Dichlorophenol	1800	0	1700	ug/Kg	94				72	118	
Naphthalene	1800	0	1600	ug/Kg	89				72	110	
4-Chloroaniline	1800	0	1400	ug/Kg	78				10	100	
Hexachlorobutadiene	1800	0	1600	ug/Kg	89				66	114	
Caprolactam	1800	0	1800	ug/Kg	100				51	134	
4-Chloro-3-methylphenol	1800	0	1700	ug/Kg	94				57	132	
2-Methylnaphthalene	1800	0	1600	ug/Kg	89				59	123	
Hexachlorocyclopentadiene	3600	0	3400	ug/Kg	94				10	175	
2,4,6-Trichlorophenol	1800	0	1700	ug/Kg	94				72	117	
2,4,5-Trichlorophenol	1800	0	1600	ug/Kg	89				72	117	
1,1-Biphenyl	1800	0	1600	ug/Kg	89				75	113	
2-Chloronaphthalene	1800	0	1700	ug/Kg	94				67	118	
2-Nitroaniline	1800	0	1700	ug/Kg	94				69	127	
Dimethylphthalate	1800	150	1800	ug/Kg	92				70	113	
Acenaphthylene	1800	0	1600	ug/Kg	89				79	118	
2,6-Dinitrotoluene	1800	0	1700	ug/Kg	94				70	125	
3-Nitroaniline	1800	0	1500	ug/Kg	83				20	111	
Acenaphthene	1800	0	1600	ug/Kg	89				70	121	
2,4-Dinitrophenol	3600	0	3000	ug/Kg	83				16	160	
4-Nitrophenol	3600	0	4100	ug/Kg	114				45	133	
Dibenzofuran	1800	0	1600	ug/Kg	89				72	110	
2,4-Dinitrotoluene	1800	0	1600	ug/Kg	89				55	128	
Diethylphthalate	1800	0	1700	ug/Kg	94				70	112	
4-Chlorophenyl-phenylether	1800	0	1600	ug/Kg	89				71	108	
Fluorene	1800	0	1700	ug/Kg	94				68	116	
4-Nitroaniline	1800	0	1500	ug/Kg	83				55	120	
4,6-Dinitro-2-methylphenol	1800	0	1500	ug/Kg	83				32	145	
N-Nitrosodiphenylamine	1800	0	1600	ug/Kg	89				73	118	
4-Bromophenyl-phenylether	1800	0	1600	ug/Kg	89				65	121	
Hexachlorobenzene	1800	0	1700	ug/Kg	94				67	118	
Atrazine	1800	0	2100	ug/Kg	117				79	127	
Pentachlorophenol	3600	0	3300	ug/Kg	92				47	128	

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Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: O3645

Client: LaBella Associates P.C.

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Phenanthrene	1800	120	1700	ug/Kg	88				72	113	
Anthracene	1800	0	1700	ug/Kg	94				62	124	
Carbazole	1800	0	1700	ug/Kg	94				59	119	
Di-n-butylphthalate	1800	0	1800	ug/Kg	100				69	118	
Fluoranthene	1800	150	1900	ug/Kg	97				59	125	
Pyrene	1800	140	1800	ug/Kg	93				52	128	
Butylbenzylphthalate	1800	0	1900	ug/Kg	106				64	126	
3,3-Dichlorobenzidine	1800	0	1900	ug/Kg	106				10	164	
Benzo(a)anthracene	1800	0	1800	ug/Kg	100				71	114	
Chrysene	1800	0	1700	ug/Kg	94				57	121	
bis(2-Ethylhexyl)phthalate	1800	0	1800	ug/Kg	100				66	127	
Di-n-octyl phthalate	1800	0	1900	ug/Kg	106				71	126	
Benzo(b)fluoranthene	1800	130	1900	ug/Kg	99				67	121	
Benzo(k)fluoranthene	1800	0	1700	ug/Kg	94				74	114	
Benzo(a)pyrene	1800	0	1600	ug/Kg	89				70	142	
Indeno(1,2,3-cd)pyrene	1800	0	1700	ug/Kg	94				61	125	
Dibenz(a,h)anthracene	1800	0	1700	ug/Kg	94				67	130	
Benzo(g,h,i)perylene	1800	0	1700	ug/Kg	94				53	140	
1,2,4,5-Tetrachlorobenzene	1800	0	1600	ug/Kg	89				69	124	
1,4-Dioxane	1800	0	1300	ug/Kg	72				46	112	
2,3,4,6-Tetrachlorophenol	1800	0	1700	ug/Kg	94				56	133	

Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: O3645

Client: LaBella Associates P.C.

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Lab Sample ID: O3645-10MSD		**Client Sample ID: SB-04-(1-5)MSD**						**DataFile: BM041175.D**			
Benzaldehyde	1800	0	1700	ug/Kg	94		0		26	163	20
Phenol	1800	0	1800	ug/Kg	100		0		67	126	20
bis(2-Chloroethyl)ether	1800	0	1700	ug/Kg	94		0		74	116	20
2-Chlorophenol	1800	0	1700	ug/Kg	94		0		61	138	20
2-Methylphenol	1800	0	1700	ug/Kg	94		5		66	122	20
2,2-oxybis(1-Chloropropane)	1800	0	1700	ug/Kg	94		0		52	115	20
Acetophenone	1800	0	1600	ug/Kg	89		0		75	111	20
3+4-Methylphenols	1800	0	1700	ug/Kg	94		0		53	132	20
N-Nitroso-di-n-propylamine	1800	0	1700	ug/Kg	94		0		59	119	20
Hexachloroethane	1800	0	1700	ug/Kg	94		0		65	117	20
Nitrobenzene	1800	0	1600	ug/Kg	89		0		70	119	20
Isophorone	1800	0	1700	ug/Kg	94		5		76	122	20
2-Nitrophenol	1800	0	1800	ug/Kg	100		6		54	145	20
2,4-Dimethylphenol	1800	0	1700	ug/Kg	94		0		83	144	20
bis(2-Chloroethoxy)methane	1800	0	1600	ug/Kg	89		0		68	112	20
2,4-Dichlorophenol	1800	0	1800	ug/Kg	100		6		72	118	20
Naphthalene	1800	0	1600	ug/Kg	89		0		72	110	20
4-Chloroaniline	1800	0	1400	ug/Kg	78		0		10	100	20
Hexachlorobutadiene	1800	0	1600	ug/Kg	89		0		66	114	20
Caprolactam	1800	0	1800	ug/Kg	100		0		51	134	20
4-Chloro-3-methylphenol	1800	0	1800	ug/Kg	100		6		57	132	20
2-Methylnaphthalene	1800	0	1600	ug/Kg	89		0		59	123	20
Hexachlorocyclopentadiene	3600	0	3400	ug/Kg	94		0		10	175	20
2,4,6-Trichlorophenol	1800	0	1800	ug/Kg	100		6		72	117	20
2,4,5-Trichlorophenol	1800	0	1600	ug/Kg	89		0		72	117	20
1,1-Biphenyl	1800	0	1600	ug/Kg	89		0		75	113	20
2-Chloronaphthalene	1800	0	1700	ug/Kg	94		0		67	118	20
2-Nitroaniline	1800	0	1800	ug/Kg	100		6		69	127	20
Dimethylphthalate	1800	150	1800	ug/Kg	92		0		70	113	20
Acenaphthylene	1800	0	1700	ug/Kg	94		5		79	118	20
2,6-Dinitrotoluene	1800	0	1700	ug/Kg	94		0		70	125	20
3-Nitroaniline	1800	0	1500	ug/Kg	83		0		20	111	20
Acenaphthene	1800	0	1700	ug/Kg	94		5		70	121	20
2,4-Dinitrophenol	3600	0	2900	ug/Kg	81		2		16	160	20
4-Nitrophenol	3600	0	4100	ug/Kg	114		0		45	133	20
Dibenzofuran	1800	0	1600	ug/Kg	89		0		72	110	20
2,4-Dinitrotoluene	1800	0	1600	ug/Kg	89		0		55	128	20
Diethylphthalate	1800	0	1700	ug/Kg	94		0		70	112	20
4-Chlorophenyl-phenylether	1800	0	1700	ug/Kg	94		5		71	108	20
Fluorene	1800	0	1700	ug/Kg	94		0		68	116	20
4-Nitroaniline	1800	0	1600	ug/Kg	89		7		55	120	20
4,6-Dinitro-2-methylphenol	1800	0	1500	ug/Kg	83		0		32	145	20
N-Nitrosodiphenylamine	1800	0	1600	ug/Kg	89		0		73	118	20
4-Bromophenyl-phenylether	1800	0	1700	ug/Kg	94		5		65	121	20
Hexachlorobenzene	1800	0	1800	ug/Kg	100		6		67	118	20
Atrazine	1800	0	2200	ug/Kg	122		4		79	127	20
Pentachlorophenol	3600	0	3400	ug/Kg	94		2		47	128	20

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Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: O3645

Client: LaBella Associates P.C.

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Phenanthrene	1800	120	1800	ug/Kg	93		6		72	113	20
Anthracene	1800	0	1700	ug/Kg	94		0		62	124	20
Carbazole	1800	0	1800	ug/Kg	100		6		59	119	20
Di-n-butylphthalate	1800	0	1900	ug/Kg	106		6		69	118	20
Fluoranthene	1800	150	1900	ug/Kg	97		0		59	125	20
Pyrene	1800	140	1800	ug/Kg	93		0		52	128	20
Butylbenzylphthalate	1800	0	1900	ug/Kg	106		0		64	126	20
3,3-Dichlorobenzidine	1800	0	2000	ug/Kg	111		5		10	164	20
Benzo(a)anthracene	1800	0	1800	ug/Kg	100		0		71	114	20
Chrysene	1800	0	1700	ug/Kg	94		0		57	121	20
bis(2-Ethylhexyl)phthalate	1800	0	1800	ug/Kg	100		0		66	127	20
Di-n-octyl phthalate	1800	0	2000	ug/Kg	111		5		71	126	20
Benzo(b)fluoranthene	1800	130	1900	ug/Kg	98		1		67	121	20
Benzo(k)fluoranthene	1800	0	1700	ug/Kg	94		0		74	114	20
Benzo(a)pyrene	1800	0	1700	ug/Kg	94		5		70	142	20
Indeno(1,2,3-cd)pyrene	1800	0	1700	ug/Kg	94		0		61	125	20
Dibenz(a,h)anthracene	1800	0	1700	ug/Kg	94		0		67	130	20
Benzo(g,h,i)perylene	1800	0	1700	ug/Kg	94		0		53	140	20
1,2,4,5-Tetrachlorobenzene	1800	0	1700	ug/Kg	94		5		69	124	20
1,4-Dioxane	1800	0	1300	ug/Kg	72		0		46	112	20
2,3,4,6-Tetrachlorophenol	1800	0	1800	ug/Kg	100		6		56	133	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: O3645

Client: LaBella Associates P.C.

Analytical Method: 8270E **DataFile:** BF134357.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB154258BS	Benzaldehyde	1700	190	ug/Kg	11				10	109	
	Phenol	1700	1400	ug/Kg	82				62	112	
	bis(2-Chloroethyl)ether	1700	1500	ug/Kg	88				60	101	
	2-Chlorophenol	1700	1500	ug/Kg	88				65	112	
	2-Methylphenol	1700	1400	ug/Kg	82				61	108	
	2,2-oxybis(1-Chloropropane)	1700	1200	ug/Kg	71				51	100	
	Acetophenone	1700	1500	ug/Kg	88				55	104	
	3+4-Methylphenols	1700	1500	ug/Kg	88				58	111	
	N-Nitroso-di-n-propylamine	1700	1500	ug/Kg	88				63	95	
	Hexachloroethane	1700	1600	ug/Kg	94				59	102	
	Nitrobenzene	1700	1400	ug/Kg	82				57	101	
	Isophorone	1700	1400	ug/Kg	82				59	99	
	2-Nitrophenol	1700	1400	ug/Kg	82				61	111	
	2,4-Dimethylphenol	1700	1400	ug/Kg	82				67	119	
	bis(2-Chloroethoxy)methane	1700	1300	ug/Kg	76				53	105	
	2,4-Dichlorophenol	1700	1400	ug/Kg	82				62	107	
	Naphthalene	1700	1400	ug/Kg	82				62	100	
	4-Chloroaniline	1700	350	ug/Kg	21				16	100	
	Hexachlorobutadiene	1700	1600	ug/Kg	94				53	98	
	Caprolactam	1700	1400	ug/Kg	82				42	122	
	4-Chloro-3-methylphenol	1700	1400	ug/Kg	82				58	112	
	2-Methylnaphthalene	1700	1300	ug/Kg	76				60	104	
	Hexachlorocyclopentadiene	3300	2300	ug/Kg	70				45	134	
	2,4,6-Trichlorophenol	1700	1400	ug/Kg	82				59	102	
	2,4,5-Trichlorophenol	1700	1300	ug/Kg	76				61	98	
	1,1-Biphenyl	1700	1400	ug/Kg	82				57	103	
	2-Chloronaphthalene	1700	1400	ug/Kg	82				58	99	
	2-Nitroaniline	1700	1300	ug/Kg	76				53	105	
	Dimethylphthalate	1700	1400	ug/Kg	82				61	99	
	Acenaphthylene	1700	1300	ug/Kg	76				63	101	
	2,6-Dinitrotoluene	1700	1400	ug/Kg	82				61	104	
	3-Nitroaniline	1700	800	ug/Kg	47				28	100	
	Acenaphthene	1700	1400	ug/Kg	82				57	104	
	2,4-Dinitrophenol	3300	2700	ug/Kg	82				37	128	
	4-Nitrophenol	3300	2200	ug/Kg	67				48	119	
	Dibenzofuran	1700	1400	ug/Kg	82				63	99	
	2,4-Dinitrotoluene	1700	1400	ug/Kg	82				60	106	
	Diethylphthalate	1700	1400	ug/Kg	82				60	101	
	4-Chlorophenyl-phenylether	1700	1400	ug/Kg	82				58	98	
	Fluorene	1700	1400	ug/Kg	82				61	101	
	4-Nitroaniline	1700	1100	ug/Kg	65				47	102	
	4,6-Dinitro-2-methylphenol	1700	1600	ug/Kg	94				48	132	
	N-Nitrosodiphenylamine	1700	1400	ug/Kg	82				56	107	
	4-Bromophenyl-phenylether	1700	1500	ug/Kg	88				55	99	
	Hexachlorobenzene	1700	1600	ug/Kg	94				64	98	
	Atrazine	1700	970	ug/Kg	57				47	125	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: O3645

Client: LaBella Associates P.C.

Analytical Method: 8270E **DataFile:** BF134357.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB154258BS	Pentachlorophenol	3300	2300	ug/Kg	70				67	105	
	Phenanthrene	1700	1400	ug/Kg	82				59	103	
	Anthracene	1700	1400	ug/Kg	82				61	105	
	Carbazole	1700	1500	ug/Kg	88				61	99	
	Di-n-butylphthalate	1700	1500	ug/Kg	88				58	104	
	Fluoranthene	1700	1500	ug/Kg	88				57	107	
	Pyrene	1700	1200	ug/Kg	71				59	103	
	Butylbenzylphthalate	1700	1400	ug/Kg	82				55	103	
	3,3-Dichlorobenzidine	1700	1000	ug/Kg	59				30	89	
	Benzo(a)anthracene	1700	1400	ug/Kg	82				60	102	
	Chrysene	1700	1400	ug/Kg	82				59	101	
	bis(2-Ethylhexyl)phthalate	1700	1600	ug/Kg	94				51	114	
	Di-n-octyl phthalate	1700	1600	ug/Kg	94				52	114	
	Benzo(b)fluoranthene	1700	1800	ug/Kg	106				62	109	
	Benzo(k)fluoranthene	1700	1600	ug/Kg	94				62	109	
	Benzo(a)pyrene	1700	1500	ug/Kg	88				63	103	
	Indeno(1,2,3-cd)pyrene	1700	1600	ug/Kg	94				63	101	
	Dibenz(a,h)anthracene	1700	1600	ug/Kg	94				61	112	
	Benzo(g,h,i)perylene	1700	1500	ug/Kg	88				57	116	
	1,2,4,5-Tetrachlorobenzene	1700	1500	ug/Kg	88				53	101	
	1,4-Dioxane	1700	1300	ug/Kg	76				50	96	
	2,3,4,6-Tetrachlorophenol	1700	1400	ug/Kg	82				59	108	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: O3645

Client: LaBella Associates P.C.

Analytical Method: 8270E **DataFile:** BP016413.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB154218BS	Benzaldehyde	50	59.7	ug/L	119				21	131	
	Phenol	50	56.9	ug/L	114				66	118	
	bis(2-Chloroethyl)ether	50	50.5	ug/L	101				62	103	
	2-Chlorophenol	50	54.9	ug/L	110				70	117	
	2-Methylphenol	50	52.0	ug/L	104				69	109	
	2,2-oxybis(1-Chloropropane)	50	52.9	ug/L	106		*		52	103	
	Acetophenone	50	48.6	ug/L	97				60	104	
	3+4-Methylphenols	50	52.1	ug/L	104				67	106	
	N-Nitroso-di-n-propylamine	50	49.9	ug/L	100				57	107	
	Hexachloroethane	50	53.2	ug/L	106		*		60	105	
	Nitrobenzene	50	49.5	ug/L	99				58	106	
	Isophorone	50	47.8	ug/L	96				61	102	
	2-Nitrophenol	50	45.3	ug/L	91				70	115	
	2,4-Dimethylphenol	50	52.7	ug/L	105				67	130	
	bis(2-Chloroethoxy)methane	50	48.8	ug/L	98				58	109	
	2,4-Dichlorophenol	50	51.7	ug/L	103				66	115	
	Naphthalene	50	47.5	ug/L	95				64	107	
	4-Chloroaniline	50	31.3	ug/L	63				10	85	
	Hexachlorobutadiene	50	44.3	ug/L	89				56	102	
	Caprolactam	50	50.3	ug/L	101				47	129	
	4-Chloro-3-methylphenol	50	51.6	ug/L	103				65	114	
	2-Methylnaphthalene	50	45.5	ug/L	91				64	107	
	Hexachlorocyclopentadiene	100	120	ug/L	120				49	132	
	2,4,6-Trichlorophenol	50	50.3	ug/L	101				61	110	
	2,4,5-Trichlorophenol	50	46.4	ug/L	93				70	106	
	1,1-Biphenyl	50	47.6	ug/L	95				72	98	
	2-Chloronaphthalene	50	49.1	ug/L	98				59	106	
	2-Nitroaniline	50	52.6	ug/L	105				58	107	
	Dimethylphthalate	50	47.3	ug/L	95				64	103	
	Acenaphthylene	50	48.1	ug/L	96				65	108	
	2,6-Dinitrotoluene	50	49.4	ug/L	99				64	110	
	3-Nitroaniline	50	40.2	ug/L	80				28	100	
	Acenaphthene	50	48.1	ug/L	96				59	113	
	2,4-Dinitrophenol	100	93.2	ug/L	93				48	129	
	4-Nitrophenol	100	120	ug/L	120		*		54	119	
	Dibenzofuran	50	46.8	ug/L	94				65	106	
	2,4-Dinitrotoluene	50	52.3	ug/L	105				60	115	
	Diethylphthalate	50	48.0	ug/L	96				63	105	
	4-Chlorophenyl-phenylether	50	45.5	ug/L	91				61	104	
	Fluorene	50	47.6	ug/L	95				64	107	
	4-Nitroaniline	50	49.0	ug/L	98				57	103	
	4,6-Dinitro-2-methylphenol	50	48.5	ug/L	97				62	132	
	N-Nitrosodiphenylamine	50	49.8	ug/L	100				61	109	
	4-Bromophenyl-phenylether	50	46.5	ug/L	93				73	103	
	Hexachlorobenzene	50	47.2	ug/L	94				73	106	
	Atrazine	50	60.9	ug/L	122				52	134	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: O3645

Client: LaBella Associates P.C.

Analytical Method: 8270E **DataFile:** BP016413.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB154218BS	Pentachlorophenol	100	90.7	ug/L	91				65	112	
	Phenanthrene	50	49.8	ug/L	100				62	109	
	Anthracene	50	50.0	ug/L	100				65	110	
	Carbazole	50	51.7	ug/L	103				62	106	
	Di-n-butylphthalate	50	51.7	ug/L	103				64	106	
	Fluoranthene	50	48.9	ug/L	98				64	110	
	Pyrene	50	50.6	ug/L	101				71	103	
	Butylbenzylphthalate	50	54.1	ug/L	108		*		61	105	
	3,3-Dichlorobenzidine	50	42.2	ug/L	84				30	96	
	Benzo(a)anthracene	50	49.4	ug/L	99				62	107	
	Chrysene	50	48.3	ug/L	97				61	108	
	bis(2-Ethylhexyl)phthalate	50	53.5	ug/L	107				59	110	
	Di-n-octyl phthalate	50	54.7	ug/L	109				55	116	
	Benzo(b)fluoranthene	50	54.0	ug/L	108				64	111	
	Benzo(k)fluoranthene	50	53.9	ug/L	108				64	113	
	Benzo(a)pyrene	50	48.7	ug/L	97				72	131	
	Indeno(1,2,3-cd)pyrene	50	49.3	ug/L	99				72	105	
	Dibenz(a,h)anthracene	50	49.8	ug/L	100				63	117	
	Benzo(g,h,i)perylene	50	48.3	ug/L	97				61	120	
	1,2,4,5-Tetrachlorobenzene	50	45.3	ug/L	91				72	101	
	1,4-Dioxane	50	40.6	ug/L	81				38	125	
	2,3,4,6-Tetrachlorophenol	50	48.7	ug/L	97				63	116	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: O3645

Client: LaBella Associates P.C.

Analytical Method: 8270E **DataFile:** BP016414.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB154218BSD	Benzaldehyde	50	58.9	ug/L	118	1			21	131	20
	Phenol	50	56.1	ug/L	112	1			66	118	20
	bis(2-Chloroethyl)ether	50	50.3	ug/L	101	0			62	103	20
	2-Chlorophenol	50	54.8	ug/L	110	0			70	117	20
	2-Methylphenol	50	51.6	ug/L	103	1			69	109	20
	2,2-oxybis(1-Chloropropane)	50	52.1	ug/L	104	2	*		52	103	20
	Acetophenone	50	48.3	ug/L	97	1			60	104	20
	3+4-Methylphenols	50	51.6	ug/L	103	1			67	106	20
	N-Nitroso-di-n-propylamine	50	49.0	ug/L	98	2			57	107	20
	Hexachloroethane	50	52.2	ug/L	104	2			60	105	20
	Nitrobenzene	50	48.9	ug/L	98	1			58	106	20
	Isophorone	50	47.4	ug/L	95	1			61	102	20
	2-Nitrophenol	50	46.6	ug/L	93	3			70	115	20
	2,4-Dimethylphenol	50	52.5	ug/L	105	0			67	130	20
	bis(2-Chloroethoxy)methane	50	48.3	ug/L	97	1			58	109	20
	2,4-Dichlorophenol	50	51.5	ug/L	103	0			66	115	20
	Naphthalene	50	47.4	ug/L	95	0			64	107	20
	4-Chloroaniline	50	31.1	ug/L	62	1			10	85	20
	Hexachlorobutadiene	50	45.3	ug/L	91	2			56	102	20
	Caprolactam	50	51.0	ug/L	102	1			47	129	20
	4-Chloro-3-methylphenol	50	51.6	ug/L	103	0			65	114	20
	2-Methylnaphthalene	50	45.3	ug/L	91	0			64	107	20
	Hexachlorocyclopentadiene	100	120	ug/L	120	0			49	132	20
	2,4,6-Trichlorophenol	50	50.7	ug/L	101	1			61	110	20
	2,4,5-Trichlorophenol	50	46.5	ug/L	93	0			70	106	20
	1,1-Biphenyl	50	47.6	ug/L	95	0			72	98	20
	2-Chloronaphthalene	50	49.0	ug/L	98	0			59	106	20
	2-Nitroaniline	50	53.0	ug/L	106	1			58	107	20
	Dimethylphthalate	50	47.1	ug/L	94	0			64	103	20
	Acenaphthylene	50	48.1	ug/L	96	0			65	108	20
	2,6-Dinitrotoluene	50	49.3	ug/L	99	0			64	110	20
	3-Nitroaniline	50	40.6	ug/L	81	1			28	100	20
	Acenaphthene	50	48.0	ug/L	96	0			59	113	20
	2,4-Dinitrophenol	100	97.1	ug/L	97	4			48	129	20
	4-Nitrophenol	100	120	ug/L	120	0	*		54	119	20
	Dibenzofuran	50	46.6	ug/L	93	0			65	106	20
	2,4-Dinitrotoluene	50	52.5	ug/L	105	0			60	115	20
	Diethylphthalate	50	48.1	ug/L	96	0			63	105	20
	4-Chlorophenyl-phenylether	50	45.6	ug/L	91	0			61	104	20
	Fluorene	50	47.7	ug/L	95	0			64	107	20
	4-Nitroaniline	50	49.4	ug/L	99	1			57	103	20
	4,6-Dinitro-2-methylphenol	50	49.4	ug/L	99	2			62	132	20
	N-Nitrosodiphenylamine	50	49.4	ug/L	99	1			61	109	20
	4-Bromophenyl-phenylether	50	46.3	ug/L	93	0			73	103	20
	Hexachlorobenzene	50	46.8	ug/L	94	1			73	106	20
	Atrazine	50	60.5	ug/L	121	1			52	134	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: O3645

Client: LaBella Associates P.C.

Analytical Method: 8270E **DataFile:** BP016414.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB154218BSD	Pentachlorophenol	100	90.4	ug/L	90	0			65	112	20
	Phenanthrene	50	49.1	ug/L	98	1			62	109	20
	Anthracene	50	49.4	ug/L	99	1			65	110	20
	Carbazole	50	51.1	ug/L	102	1			62	106	20
	Di-n-butylphthalate	50	51.3	ug/L	103	1			64	106	20
	Fluoranthene	50	48.4	ug/L	97	1			64	110	20
	Pyrene	50	50.3	ug/L	101	1			71	103	20
	Butylbenzylphthalate	50	54.1	ug/L	108	0	*		61	105	20
	3,3-Dichlorobenzidine	50	41.6	ug/L	83	1			30	96	20
	Benzo(a)anthracene	50	49.3	ug/L	99	0			62	107	20
	Chrysene	50	48.2	ug/L	96	0			61	108	20
	bis(2-Ethylhexyl)phthalate	50	53.6	ug/L	107	0			59	110	20
	Di-n-octyl phthalate	50	54.8	ug/L	110	0			55	116	20
	Benzo(b)fluoranthene	50	53.5	ug/L	107	1			64	111	20
	Benzo(k)fluoranthene	50	53.3	ug/L	107	1			64	113	20
	Benzo(a)pyrene	50	48.5	ug/L	97	0			72	131	20
	Indeno(1,2,3-cd)pyrene	50	49.5	ug/L	99	0			72	105	20
	Dibenz(a,h)anthracene	50	49.6	ug/L	99	0			63	117	20
	Benzo(g,h,i)perylene	50	48.3	ug/L	97	0			61	120	20
	1,2,4,5-Tetrachlorobenzene	50	45.6	ug/L	91	1			72	101	20
	1,4-Dioxane	50	40.5	ug/L	81	0			38	125	20
	2,3,4,6-Tetrachlorophenol	50	49.0	ug/L	98	1			63	116	20

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SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB154218BL

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM Case No.: O3645 SAS No.: O3645 SDG NO.: O3645

Lab File ID: BP016412.D Lab Sample ID: PB154218BL

Instrument ID: BNA_P Date Extracted: 07/17/2023

Matrix: (soil/water) Water Date Analyzed: 07/28/2023

Level: (low/med) LOW Time Analyzed: 08:37

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB154218BS	PB154218BS	BP016413.D	07/28/2023
PB154218BSD	PB154218BSD	BP016414.D	07/28/2023
RINSATE-BLANK	O3645-08	BF134528.D	07/28/2023

COMMENTS:

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SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB154258BL

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM Case No.: O3645 SAS No.: O3645 SDG NO.: O3645

Lab File ID: BF134356.D Lab Sample ID: PB154258BL

Instrument ID: BNA_F Date Extracted: 07/18/2023

Matrix: (soil/water) SOIL Date Analyzed: 07/19/2023

Level: (low/med) LOW Time Analyzed: 13:34

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB154258BS	PB154258BS	BF134357.D	07/19/2023
SB-02-(3-5)	O3645-01	BF134527.D	07/28/2023
SB-07-(1-3)	O3645-03	BF134531.D	07/29/2023
SB-04-(1-5)	O3645-02	BF134557.D	08/01/2023
SB-08-(0.5-2.0)	O3645-04	BF134556.D	08/01/2023
SB-10-(0.5-2.0)	O3645-06	BF134566.D	08/02/2023
DUP	O3645-07	BG058571.D	08/02/2023
SB-09-(2.0-4.0)	O3645-05	BG058572.D	08/02/2023
SB-04-(1-5)MS	O3645-09MS	BM041174.D	07/28/2023
SB-04-(1-5)MSD	O3645-10MSD	BM041175.D	07/28/2023

COMMENTS:

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM SAS No.: O3645 SDG NO.: O3645

Lab File ID: BF133952.D DFTPP Injection Date: 06/26/2023

Instrument ID: BNA_F DFTPP Injection Time: 14:41

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	46.4
68	Less than 2.0% of mass 69	0.7 (1.8) 1
69	Mass 69 relative abundance	38.9
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	49.1
197	Less than 2.0% of mass 198	0.7
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	7
275	10.0 - 60.0% of mass 198	29.7
365	Greater than 1% of mass 198	3.9
441	Present, but less than mass 443	15.9
442	Greater than 50% of mass 198	100.0
443	15.0 - 24.0% of mass 442	18.3 (19) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC2.5	SSTDICC2.5	BF133953.D	06/26/2023	15:19
SSTDICC005	SSTDICC005	BF133954.D	06/26/2023	15:53
SSTDICC010	SSTDICC010	BF133955.D	06/26/2023	16:27
SSTDICC020	SSTDICC020	BF133956.D	06/26/2023	17:02
SSTDICCC040	SSTDICCC040	BF133957.D	06/26/2023	17:37
SSTDICC050	SSTDICC050	BF133958.D	06/26/2023	18:12
SSTDICC060	SSTDICC060	BF133959.D	06/26/2023	18:47
SSTDICC080	SSTDICC080	BF133960.D	06/26/2023	19:21

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SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM SAS No.: O3645 SDG NO.: O3645

Lab File ID: BF134354.D DFTPP Injection Date: 07/19/2023

Instrument ID: BNA_F DFTPP Injection Time: 12:29

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	39.4
68	Less than 2.0% of mass 69	0.4 (1.5) 1
69	Mass 69 relative abundance	37.4
70	Less than 2.0% of mass 69	0.1 (0.5) 1
127	10.0 - 80.0% of mass 198	46.8
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	6.9
275	10.0 - 60.0% of mass 198	32.8
365	Greater than 1% of mass 198	4.6
441	Present, but less than mass 443	21.1
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:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF134355.D	07/19/2023	13:01
PB154258BL	PB154258BL	BF134356.D	07/19/2023	13:34
PB154258BS	PB154258BS	BF134357.D	07/19/2023	14:07

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SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM SAS No.: O3645 SDG NO.: O3645

Lab File ID: BF134425.D DFTPP Injection Date: 07/24/2023

Instrument ID: BNA_F DFTPP Injection Time: 12:41

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	44.3
68	Less than 2.0% of mass 69	0.4 (0.9) 1
69	Mass 69 relative abundance	40.1
70	Less than 2.0% of mass 69	0.0 (0.0) 1
127	10.0 - 80.0% of mass 198	51.0
197	Less than 2.0% of mass 198	0.4
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.4
275	10.0 - 60.0% of mass 198	29.9
365	Greater than 1% of mass 198	3.8
441	Present, but less than mass 443	17.3
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19.4 (19.4) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC2.5	SSTDICC2.5	BF134427.D	07/24/2023	13:46
SSTDICC005	SSTDICC005	BF134428.D	07/24/2023	14:19
SSTDICC010	SSTDICC010	BF134429.D	07/24/2023	14:53
SSTDICC020	SSTDICC020	BF134430.D	07/24/2023	15:28
SSTDICCC040	SSTDICCC040	BF134431.D	07/24/2023	16:02
SSTDICC050	SSTDICC050	BF134432.D	07/24/2023	16:36
SSTDICC060	SSTDICC060	BF134433.D	07/24/2023	17:10
SSTDICC080	SSTDICC080	BF134434.D	07/24/2023	17:44

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SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM SAS No.: O3645 SDG NO.: O3645

Lab File ID: BF134517.D DFTPP Injection Date: 07/28/2023

Instrument ID: BNA_F DFTPP Injection Time: 15:21

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	40.4
68	Less than 2.0% of mass 69	0.3 (1.1) 1
69	Mass 69 relative abundance	38.6
70	Less than 2.0% of mass 69	0.1 (0.5) 1
127	10.0 - 80.0% of mass 198	49.2
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	6.6
275	10.0 - 60.0% of mass 198	31.6
365	Greater than 1% of mass 198	4.5
441	Present, but less than mass 443	20.7
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:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF134518.D	07/28/2023	16:29
SB-02-(3-5)	O3645-01	BF134527.D	07/28/2023	21:40
RINSATE-BLANK	O3645-08	BF134528.D	07/28/2023	22:17
SB-07-(1-3)	O3645-03	BF134531.D	07/29/2023	00:10

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SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM SAS No.: O3645 SDG NO.: O3645

Lab File ID: BF134535.D DFTPP Injection Date: 08/01/2023

Instrument ID: BNA_F DFTPP Injection Time: 07:20

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	36.8
68	Less than 2.0% of mass 69	0.5 (1.8) 1
69	Mass 69 relative abundance	33.0
70	Less than 2.0% of mass 69	0.2 (0.7) 1
127	10.0 - 80.0% of mass 198	44.7
197	Less than 2.0% of mass 198	0.8
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	27.2
365	Greater than 1% of mass 198	3.9
441	Present, but less than mass 443	17.1
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:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC2.5	SSTDICC2.5	BF134536.D	08/01/2023	07:51
SSTDICC005	SSTDICC005	BF134537.D	08/01/2023	08:22
SSTDICC010	SSTDICC010	BF134538.D	08/01/2023	08:54
SSTDICC020	SSTDICC020	BF134539.D	08/01/2023	09:24
SSTDICCC040	SSTDICCC040	BF134540.D	08/01/2023	10:12
SSTDICC050	SSTDICC050	BF134541.D	08/01/2023	10:44
SSTDICC060	SSTDICC060	BF134542.D	08/01/2023	11:15
SSTDICC080	SSTDICC080	BF134543.D	08/01/2023	11:47

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SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM SAS No.: O3645 SDG NO.: O3645

Lab File ID: BF134546.D DFTPP Injection Date: 08/01/2023

Instrument ID: BNA_F DFTPP Injection Time: 13:54

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	38.6
68	Less than 2.0% of mass 69	0.5 (1.7) 1
69	Mass 69 relative abundance	34.1
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	46.3
197	Less than 2.0% of mass 198	0.8
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.6
275	10.0 - 60.0% of mass 198	27.4
365	Greater than 1% of mass 198	3.5
441	Present, but less than mass 443	16.7
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:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF134547.D	08/01/2023	14:27
SB-08-(0.5-2.0)	O3645-04	BF134556.D	08/01/2023	19:24
SB-04-(1-5)	O3645-02	BF134557.D	08/01/2023	19:56
SB-10-(0.5-2.0)DL	O3645-06DL	BF134565.D	08/02/2023	00:09
SB-10-(0.5-2.0)	O3645-06	BF134566.D	08/02/2023	00:41

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM SAS No.: O3645 SDG NO.: O3645

Lab File ID: BG058509.D DFTPP Injection Date: 07/28/2023

Instrument ID: BNA_G DFTPP Injection Time: 08:40

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	39.2
68	Less than 2.0% of mass 69	0.2 (0.5) 1
69	Mass 69 relative abundance	31.4
70	Less than 2.0% of mass 69	0.2 (0.7) 1
127	10.0 - 80.0% of mass 198	39.1
197	Less than 2.0% of mass 198	0.2
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 60.0% of mass 198	27.1
365	Greater than 1% of mass 198	3.5
441	Present, but less than mass 443	13.5
442	Greater than 50% of mass 198	100.0
443	15.0 - 24.0% of mass 442	16.3 (20.4) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC2.5	SSTDICC2.5	BG058510.D	07/28/2023	09:21
SSTDICC005	SSTDICC005	BG058511.D	07/28/2023	10:02
SSTDICC010	SSTDICC010	BG058512.D	07/28/2023	10:43
SSTDICC020	SSTDICC020	BG058513.D	07/28/2023	11:24
SSTDICCC040	SSTDICCC040	BG058514.D	07/28/2023	12:05
SSTDICC050	SSTDICC050	BG058515.D	07/28/2023	12:46
SSTDICC060	SSTDICC060	BG058516.D	07/28/2023	13:27
SSTDICC080	SSTDICC080	BG058517.D	07/28/2023	14:09

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM SAS No.: O3645 SDG NO.: O3645

Lab File ID: BG058568.D DFTPP Injection Date: 08/02/2023

Instrument ID: BNA_G DFTPP Injection Time: 07:54

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	35.9
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	31.6
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	38.6
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	6.9
275	10.0 - 60.0% of mass 198	28.9
365	Greater than 1% of mass 198	3.7
441	Present, but less than mass 443	14.8
442	Greater than 50% of mass 198	100.0
443	15.0 - 24.0% of mass 442	17.3 (19.6) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BG058569.D	08/02/2023	08:34
DUP	O3645-07	BG058571.D	08/02/2023	09:59
SB-09-(2.0-4.0)	O3645-05	BG058572.D	08/02/2023	10:39

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM SAS No.: O3645 SDG NO.: O3645

Lab File ID: BM041157.D DFTPP Injection Date: 07/28/2023

Instrument ID: BNA_M DFTPP Injection Time: 09:37

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	41.2
68	Less than 2.0% of mass 69	0.8 (1.8) 1
69	Mass 69 relative abundance	44.5
70	Less than 2.0% of mass 69	0.3 (0.7) 1
127	10.0 - 80.0% of mass 198	47.9
197	Less than 2.0% of mass 198	0.3
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 60.0% of mass 198	26.2
365	Greater than 1% of mass 198	3.6
441	Present, but less than mass 443	14.5
442	Greater than 50% of mass 198	100.0
443	15.0 - 24.0% of mass 442	18.1 (19.9) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC2.5	SSTDICC2.5	BM041158.D	07/28/2023	10:14
SSTDICC005	SSTDICC005	BM041159.D	07/28/2023	10:51
SSTDICC010	SSTDICC010	BM041160.D	07/28/2023	11:29
SSTDICC020	SSTDICC020	BM041161.D	07/28/2023	12:06
SSTDICCC040	SSTDICCC040	BM041162.D	07/28/2023	12:44
SSTDICC050	SSTDICC050	BM041163.D	07/28/2023	13:22
SSTDICC060	SSTDICC060	BM041164.D	07/28/2023	14:00
SSTDICC080	SSTDICC080	BM041165.D	07/28/2023	14:38

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM SAS No.: O3645 SDG NO.: O3645

Lab File ID: BM041168.D DFTPP Injection Date: 07/28/2023

Instrument ID: BNA_M DFTPP Injection Time: 16:33

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	42.8
68	Less than 2.0% of mass 69	0.7 (1.5) 1
69	Mass 69 relative abundance	46.4
70	Less than 2.0% of mass 69	0.3 (0.6) 1
127	10.0 - 80.0% of mass 198	49
197	Less than 2.0% of mass 198	0.4
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 60.0% of mass 198	25.3
365	Greater than 1% of mass 198	3.5
441	Present, but less than mass 443	13.3
442	Greater than 50% of mass 198	100.0
443	15.0 - 24.0% of mass 442	16 (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:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BM041169.D	07/28/2023	17:11
SB-04-(1-5)MS	O3645-09MS	BM041174.D	07/28/2023	20:22
SB-04-(1-5)MSD	O3645-10MSD	BM041175.D	07/28/2023	21:00

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM SAS No.: O3645 SDG NO.: O3645

Lab File ID: BP016392.D DFTPP Injection Date: 07/27/2023

Instrument ID: BNA_P DFTPP Injection Time: 09:55

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	28.8
68	Less than 2.0% of mass 69	0.4 (1.6) 1
69	Mass 69 relative abundance	32.8
70	Less than 2.0% of mass 69	0.1 (0.5) 1
127	10.0 - 80.0% of mass 198	42.7
197	Less than 2.0% of mass 198	0.4
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	27.9
365	Greater than 1% of mass 198	4.2
441	Present, but less than mass 443	20.0
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	20 (20) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC2.5	SSTDICC2.5	BP016393.D	07/27/2023	11:03
SSTDICC005	SSTDICC005	BP016394.D	07/27/2023	11:37
SSTDICC010	SSTDICC010	BP016395.D	07/27/2023	12:12
SSTDICC020	SSTDICC020	BP016396.D	07/27/2023	12:46
SSTDICCC040	SSTDICCC040	BP016397.D	07/27/2023	13:20
SSTDICC050	SSTDICC050	BP016398.D	07/27/2023	13:55
SSTDICC060	SSTDICC060	BP016399.D	07/27/2023	14:29
SSTDICC080	SSTDICC080	BP016400.D	07/27/2023	15:03

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SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM SAS No.: O3645 SDG NO.: O3645

Lab File ID: BP016410.D DFTPP Injection Date: 07/28/2023

Instrument ID: BNA_P DFTPP Injection Time: 07:30

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 (1.6) 1
69	Mass 69 relative abundance	38.2
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	47.2
197	Less than 2.0% of mass 198	0.6
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 60.0% of mass 198	24.4
365	Greater than 1% of mass 198	3.2
441	Present, but less than mass 443	13.9
442	Greater than 50% of mass 198	100.0
443	15.0 - 24.0% of mass 442	17.7 (19.9) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BP016411.D	07/28/2023	08:03
PB154218BL	PB154218BL	BP016412.D	07/28/2023	08:37
PB154218BS	PB154218BS	BP016413.D	07/28/2023	09:12
PB154218BSD	PB154218BSD	BP016414.D	07/28/2023	09:48

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: O3645 SAS No.: O3645 SDG NO.: O3645

EPA Sample No.: SSTDCCC040 Date Analyzed: 07/19/2023

Lab File ID: BF134355.D Time Analyzed: 13:01

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	72147	6.84	261643	8.12	134896	9.88
	UPPER LIMIT	144294	7.34	523286	8.622	269792	10.381
	LOWER LIMIT	36073.5	6.34	130822	7.622	67448	9.381
	EPA SAMPLE NO.						
01	PB154258BL	76908	6.84	293261	8.12	157065	9.88
02	PB154258BS	73456	6.84	287399	8.12	147548	9.88

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.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: O3645 SAS No.: O3645 SDG NO.: O3645

EPA Sample No.: SSTDCCC040 Date Analyzed: 07/19/2023

Lab File ID: BF134355.D Time Analyzed: 13:01

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	265144	11.375	186886	14.039	165841	15.545
	UPPER LIMIT	530288	11.875	373772	14.539	331682	16.045
	LOWER LIMIT	132572	10.875	93443	13.539	82920.5	15.045
	EPA SAMPLE NO.						
01	PB154258BL	314062	11.37	230557	14.03	204908	15.54
02	PB154258BS	283533	11.38	207181	14.04	162647	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.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: O3645 SAS No.: O3645 SDG NO.: O3645

EPA Sample No.: SSTDCCC040 Date Analyzed: 07/28/2023

Lab File ID: BF134518.D Time Analyzed: 16:29

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	87669	6.828	337479	8.11	185549	9.87
	UPPER LIMIT	175338	7.328	674958	8.61	371098	10.369
	LOWER LIMIT	43834.5	6.328	168740	7.61	92774.5	9.369
	EPA SAMPLE NO.						
01	SB-02-(3-5)	80491	6.83	305901	8.11	133240	9.86
02	SB-07-(1-3)	99614	6.83	368068	8.11	164170	9.86
03	RINSATE-BLANK	116133	6.83	261936	8.11	136997	9.86

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.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: O3645 SAS No.: O3645 SDG NO.: O3645

EPA Sample No.: SSTDCCC040 Date Analyzed: 07/28/2023

Lab File ID: BF134518.D Time Analyzed: 16:29

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	383332	11.363	254954	14.021	199170	15.515
	UPPER LIMIT	766664	11.863	509908	14.521	398340	16.015
	LOWER LIMIT	191666	10.863	127477	13.521	99585	15.015
	EPA SAMPLE NO.						
01	SB-02-(3-5)	192351	11.36	143002	14.02	101757	15.52
02	SB-07-(1-3)	266517	11.36	176024	14.02	152338	15.52
03	RINSATE-BLANK	224038	11.36	149740	14.02	125969	15.52

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: CHEMTECH

Lab Code: CHEM Case No.: O3645 SAS No.: O3645 SDG NO.: O3645

EPA Sample No.: SSTDCCC040 Date Analyzed: 08/01/2023

Lab File ID: BF134547.D Time Analyzed: 14:27

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	220485	6.792	863869	8.08	433432	9.83
	UPPER LIMIT	440970	7.292	1727740	8.575	866864	10.328
	LOWER LIMIT	110243	6.292	431935	7.575	216716	9.328
	EPA SAMPLE NO.						
01	SB-04-(1-5)	205461	6.79	825053	8.07	411202	9.82
02	SB-08-(0.5-2.0)	186884	6.79	736666	8.07	365569	9.82
03	SB-10-(0.5-2.0)	186419	6.79	688439	8.07	288810	9.83
04	SB-10-(0.5-2.0)DL	176047	6.79	669108	8.07	288095	9.82

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: CHEMTECH

Lab Code: CHEM Case No.: O3645 SAS No.: O3645 SDG NO.: O3645

EPA Sample No.: SSTDCCC040 Date Analyzed: 08/01/2023

Lab File ID: BF134547.D Time Analyzed: 14:27

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	785259	11.316	498206	13.963	453778	15.415
	UPPER LIMIT	1570520	11.816	996412	14.463	907556	15.915
	LOWER LIMIT	392630	10.816	249103	13.463	226889	14.915
	EPA SAMPLE NO.						
01	SB-04-(1-5)	731340	11.31	404523	13.95	444719	15.41
02	SB-08-(0.5-2.0)	647165	11.31	366423	13.95	422938	15.41
03	SB-10-(0.5-2.0)	477851	11.32	297316	13.97	259002	15.43
04	SB-10-(0.5-2.0)DL	446577	11.31	335956	13.96	267080	15.42

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: CHEMTECH

Lab Code: CHEM Case No.: O3645 SAS No.: O3645 SDG NO.: O3645

EPA Sample No.: SSTDCCC040 Date Analyzed: 08/02/2023

Lab File ID: BG058569.D Time Analyzed: 08:34

Instrument ID: BNA_G GC Column: ZB-GR ID: 0.25 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	39596	7.814	168505	10.62	117751	14.47
	UPPER LIMIT	79192	8.314	337010	11.116	235502	14.965
	LOWER LIMIT	19798	7.314	84252.5	10.116	58875.5	13.965
	EPA SAMPLE NO.						
01	DUP	54082	7.81	234812	10.61	164688	14.46
02	SB-09-(2.0-4.0)	58172	7.81	254632	10.62	173135	14.46

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.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: O3645 SAS No.: O3645 SDG NO.: O3645

EPA Sample No.: SSTDCCC040 Date Analyzed: 08/02/2023

Lab File ID: BG058569.D Time Analyzed: 08:34

Instrument ID: BNA_G GC Column: ZB-GR ID: 0.25 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	312836	17.209	298102	21.457	377370	24.529
	UPPER LIMIT	625672	17.709	596204	21.957	754740	25.029
	LOWER LIMIT	156418	16.709	149051	20.957	188685	24.029
	EPA SAMPLE NO.						
01	DUP	370089	17.21	322252	21.45	402408	24.52
02	SB-09-(2.0-4.0)	388943	17.21	335998	21.45	415042	24.52

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: CHEMTECH

Lab Code: CHEM Case No.: O3645 SAS No.: O3645 SDG NO.: O3645

EPA Sample No.: SSTDCCC040 Date Analyzed: 07/28/2023

Lab File ID: BM041169.D Time Analyzed: 17:11

Instrument ID: BNA_M GC Column: ZB-GR ID: 0.25 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	155350	7.804	581542	10.62	321278	14.47
	UPPER LIMIT	310700	8.304	1163080	11.116	642556	14.969
	LOWER LIMIT	77675	7.304	290771	10.116	160639	13.969
	EPA SAMPLE NO.						
01	SB-04-(1-5)MS	183644	7.80	715690	10.61	398072	14.47
02	SB-04-(1-5)MSD	193205	7.80	741556	10.61	413329	14.47

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: CHEMTECH

Lab Code: CHEM Case No.: O3645 SAS No.: O3645 SDG NO.: O3645

EPA Sample No.: SSTDCCC040 Date Analyzed: 07/28/2023

Lab File ID: BM041169.D Time Analyzed: 17:11

Instrument ID: BNA_M GC Column: ZB-GR ID: 0.25 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	645331	17.227	604742	21.433	674680	23.803
	UPPER LIMIT	1290660	17.727	1209480	21.933	1349360	24.303
	LOWER LIMIT	322666	16.727	302371	20.933	337340	23.303
	EPA SAMPLE NO.						
01	SB-04-(1-5)MS	828030	17.23	795964	21.43	909051	23.80
02	SB-04-(1-5)MSD	855318	17.23	829098	21.43	953040	23.80

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.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: O3645 SAS No.: O3645 SDG NO.: O3645

EPA Sample No.: SSTDCCC040 Date Analyzed: 07/28/2023

Lab File ID: BP016411.D Time Analyzed: 08:03

Instrument ID: BNA_P GC Column: ZB-GR ID: 0.25 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	506538	8.093	2090640	10.92	1248290	14.73
	UPPER LIMIT	1013080	8.593	4181280	11.422	2496580	15.234
	LOWER LIMIT	253269	7.593	1045320	10.422	624145	14.234
	EPA SAMPLE NO.						
01	PB154218BL	431547	8.09	1746470	10.92	1045570	14.73
02	PB154218BS	349249	8.09	1482470	10.92	905687	14.73
03	PB154218BSD	341099	8.09	1443210	10.92	877872	14.73

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.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: O3645 SAS No.: O3645 SDG NO.: O3645

EPA Sample No.: SSTDCCC040 Date Analyzed: 07/28/2023

Lab File ID: BP016411.D Time Analyzed: 08:03

Instrument ID: BNA_P GC Column: ZB-GR ID: 0.25 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	2658100	17.498	2292480	21.592	2240140	24.186
	UPPER LIMIT	5316200	17.998	4584960	22.092	4480280	24.686
	LOWER LIMIT	1329050	16.998	1146240	21.092	1120070	23.686
	EPA SAMPLE NO.						
01	PB154218BL	2341400	17.49	2050870	21.59	2195260	24.18
02	PB154218BS	1936050	17.50	1800690	21.59	1921990	24.19
03	PB154218BSD	1902270	17.50	1781260	21.59	1923430	24.19

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:	LaBella Associates P.C.	Date Collected:	
Project:	Mackenna Parcels	Date Received:	
Client Sample ID:	PB154218BL	SDG No.:	O3645
Lab Sample ID:	PB154218BL	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP016412.D	1	07/17/23 08:30	07/28/23 08:37	PB154218

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	10.0	U	3.30	10.0	ug/L
108-95-2	Phenol	5.00	U	1.50	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	5.00	U	1.70	5.00	ug/L
95-57-8	2-Chlorophenol	5.00	U	1.40	5.00	ug/L
95-48-7	2-Methylphenol	5.00	U	2.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	5.00	U	2.30	5.00	ug/L
98-86-2	Acetophenone	5.00	U	1.80	5.00	ug/L
65794-96-9	3+4-Methylphenols	10.0	U	2.20	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	2.50	U	2.00	2.50	ug/L
67-72-1	Hexachloroethane	5.00	U	1.60	5.00	ug/L
98-95-3	Nitrobenzene	5.00	U	1.70	5.00	ug/L
78-59-1	Isophorone	5.00	U	1.70	5.00	ug/L
88-75-5	2-Nitrophenol	5.00	U	2.40	5.00	ug/L
105-67-9	2,4-Dimethylphenol	5.00	U	3.00	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	5.00	U	2.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	5.00	U	1.70	5.00	ug/L
91-20-3	Naphthalene	5.00	U	1.70	5.00	ug/L
106-47-8	4-Chloroaniline	5.00	U	2.50	5.00	ug/L
87-68-3	Hexachlorobutadiene	5.00	U	1.90	5.00	ug/L
105-60-2	Caprolactam	10.0	U	3.40	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	5.00	U	1.80	5.00	ug/L
91-57-6	2-Methylnaphthalene	5.00	U	2.20	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	10.0	U	5.70	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	5.00	U	1.50	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	5.00	U	1.60	5.00	ug/L
92-52-4	1,1-Biphenyl	5.00	U	1.80	5.00	ug/L
91-58-7	2-Chloronaphthalene	5.00	U	1.60	5.00	ug/L
88-74-4	2-Nitroaniline	5.00	U	2.40	5.00	ug/L
131-11-3	Dimethylphthalate	5.00	U	1.90	5.00	ug/L
208-96-8	Acenaphthylene	5.00	U	2.10	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	5.00	U	2.10	5.00	ug/L

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Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	
Project:	Mackenna Parcels	Date Received:	
Client Sample ID:	PB154218BL	SDG No.:	O3645
Lab Sample ID:	PB154218BL	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP016412.D	1	07/17/23 08:30	07/28/23 08:37	PB154218

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	5.00	U	2.40	5.00	ug/L
83-32-9	Acenaphthene	5.00	U	1.70	5.00	ug/L
51-28-5	2,4-Dinitrophenol	10.0	U	5.50	10.0	ug/L
100-02-7	4-Nitrophenol	10.0	U	2.80	10.0	ug/L
132-64-9	Dibenzofuran	5.00	U	1.60	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	5.00	U	2.50	5.00	ug/L
84-66-2	Diethylphthalate	5.00	U	2.10	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	5.00	U	2.20	5.00	ug/L
86-73-7	Fluorene	5.00	U	2.00	5.00	ug/L
100-01-6	4-Nitroaniline	5.00	U	2.30	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	10.0	U	1.80	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	5.00	U	2.00	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	5.00	U	2.00	5.00	ug/L
118-74-1	Hexachlorobenzene	5.00	U	1.90	5.00	ug/L
1912-24-9	Atrazine	5.00	U	3.50	5.00	ug/L
87-86-5	Pentachlorophenol	10.0	U	2.60	10.0	ug/L
85-01-8	Phenanthrene	5.00	U	2.00	5.00	ug/L
120-12-7	Anthracene	5.00	U	2.30	5.00	ug/L
86-74-8	Carbazole	5.00	U	1.70	5.00	ug/L
84-74-2	Di-n-butylphthalate	5.00	U	2.40	5.00	ug/L
206-44-0	Fluoranthene	5.00	U	2.10	5.00	ug/L
129-00-0	Pyrene	5.00	U	1.90	5.00	ug/L
85-68-7	Butylbenzylphthalate	5.00	U	2.80	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	10.0	U	5.40	10.0	ug/L
56-55-3	Benzo(a)anthracene	5.00	U	1.50	5.00	ug/L
218-01-9	Chrysene	5.00	U	1.60	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	5.00	U	2.90	5.00	ug/L
117-84-0	Di-n-octyl phthalate	10.0	U	3.10	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	5.00	U	1.50	5.00	ug/L
207-08-9	Benzo(k)fluoranthene	5.00	U	1.90	5.00	ug/L
50-32-8	Benzo(a)pyrene	5.00	U	2.70	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	5.00	U	2.10	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	5.00	U	2.00	5.00	ug/L

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Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	
Project:	Mackenna Parcels	Date Received:	
Client Sample ID:	PB154218BL	SDG No.:	O3645
Lab Sample ID:	PB154218BL	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP016412.D	1	07/17/23 08:30	07/28/23 08:37	PB154218

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
191-24-2	Benzo(g,h,i)perylene	5.00	U	1.90	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	5.00	U	2.10	5.00	ug/L
123-91-1	1,4-Dioxane	5.00	U	2.40	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	5.00	U	1.30	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	143		10 - 139	96%	SPK: 150
13127-88-3	Phenol-d6	135		10 - 134	90%	SPK: 150
4165-60-0	Nitrobenzene-d5	92.0		49 - 133	92%	SPK: 100
321-60-8	2-Fluorobiphenyl	89.5		52 - 132	89%	SPK: 100
118-79-6	2,4,6-Tribromophenol	110		45 - 141	74%	SPK: 150
1718-51-0	Terphenyl-d14	102		45 - 142	102%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	432000	8.087			
1146-65-2	Naphthalene-d8	1750000	10.922			
15067-26-2	Acenaphthene-d10	1050000	14.734			
1517-22-2	Phenanthrene-d10	2340000	17.492			
1719-03-5	Chrysene-d12	2050000	21.586			
1520-96-3	Perylene-d12	2200000	24.18			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	2.10	A		5.15	ug/L

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

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	
Project:	Mackenna Parcels	Date Received:	
Client Sample ID:	PB154258BL	SDG No.:	O3645
Lab Sample ID:	PB154258BL	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BF134356.D	1	07/18/23 09:45	07/19/23 13:34	PB154258

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	330	U	150	330	ug/Kg
108-95-2	Phenol	170	U	74.4	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	170	U	89.8	170	ug/Kg
95-57-8	2-Chlorophenol	170	U	72.0	170	ug/Kg
95-48-7	2-Methylphenol	170	U	110	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	170	U	110	170	ug/Kg
98-86-2	Acetophenone	170	U	86.7	170	ug/Kg
65794-96-9	3+4-Methylphenols	330	U	110	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	80.0	U	59.0	80.0	ug/Kg
67-72-1	Hexachloroethane	170	U	73.6	170	ug/Kg
98-95-3	Nitrobenzene	170	U	75.2	170	ug/Kg
78-59-1	Isophorone	170	U	68.1	170	ug/Kg
88-75-5	2-Nitrophenol	170	U	95.1	170	ug/Kg
105-67-9	2,4-Dimethylphenol	170	U	99.6	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	170	U	110	170	ug/Kg
120-83-2	2,4-Dichlorophenol	170	U	78.1	170	ug/Kg
91-20-3	Naphthalene	170	U	81.4	170	ug/Kg
106-47-8	4-Chloroaniline	170	U	110	170	ug/Kg
87-68-3	Hexachlorobutadiene	170	U	84.0	170	ug/Kg
105-60-2	Caprolactam	330	U	120	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	170	U	82.5	170	ug/Kg
91-57-6	2-Methylnaphthalene	170	U	94.9	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	330	U	210	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	170	U	77.1	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	170	U	87.9	170	ug/Kg
92-52-4	1,1-Biphenyl	170	U	91.3	170	ug/Kg
91-58-7	2-Chloronaphthalene	170	U	84.6	170	ug/Kg
88-74-4	2-Nitroaniline	170	U	99.3	170	ug/Kg
131-11-3	Dimethylphthalate	170	U	88.9	170	ug/Kg
208-96-8	Acenaphthylene	170	U	88.4	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	170	U	90.0	170	ug/Kg

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Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	
Project:	Mackenna Parcels	Date Received:	
Client Sample ID:	PB154258BL	SDG No.:	O3645
Lab Sample ID:	PB154258BL	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BF134356.D	1	07/18/23 09:45	07/19/23 13:34	PB154258

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
99-09-2	3-Nitroaniline	170	U	93.4	170	ug/Kg
83-32-9	Acenaphthene	170	U	80.3	170	ug/Kg
51-28-5	2,4-Dinitrophenol	330	U	180	330	ug/Kg
100-02-7	4-Nitrophenol	330	U	110	330	ug/Kg
132-64-9	Dibenzofuran	170	U	76.9	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	170	U	99.9	170	ug/Kg
84-66-2	Diethylphthalate	170	U	85.9	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	170	U	90.4	170	ug/Kg
86-73-7	Fluorene	170	U	84.8	170	ug/Kg
100-01-6	4-Nitroaniline	170	U	100	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	330	U	87.8	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	170	U	93.3	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	170	U	97.4	170	ug/Kg
118-74-1	Hexachlorobenzene	170	U	98.8	170	ug/Kg
1912-24-9	Atrazine	170	U	95.4	170	ug/Kg
87-86-5	Pentachlorophenol	330	U	110	330	ug/Kg
85-01-8	Phenanthrene	170	U	92.7	170	ug/Kg
120-12-7	Anthracene	170	U	100	170	ug/Kg
86-74-8	Carbazole	170	U	84.9	170	ug/Kg
84-74-2	Di-n-butylphthalate	170	U	100	170	ug/Kg
206-44-0	Fluoranthene	170	U	94.4	170	ug/Kg
129-00-0	Pyrene	170	U	83.7	170	ug/Kg
85-68-7	Butylbenzylphthalate	170	U	100	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	330	U	160	330	ug/Kg
56-55-3	Benzo(a)anthracene	170	U	83.9	170	ug/Kg
218-01-9	Chrysene	170	U	86.8	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	170	U	120	170	ug/Kg
117-84-0	Di-n-octyl phthalate	330	U	120	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	170	U	80.3	170	ug/Kg
207-08-9	Benzo(k)fluoranthene	170	U	88.1	170	ug/Kg
50-32-8	Benzo(a)pyrene	170	U	94.3	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	170	U	110	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	170	U	96.5	170	ug/Kg

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	
Project:	Mackenna Parcels	Date Received:	
Client Sample ID:	PB154258BL	SDG No.:	O3645
Lab Sample ID:	PB154258BL	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BF134356.D	1	07/18/23 09:45	07/19/23 13:34	PB154258

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
191-24-2	Benzo(g,h,i)perylene	170	U	92.5	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	170	U	89.4	170	ug/Kg
123-91-1	1,4-Dioxane	170	U	120	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	170	U	82.9	170	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	163		18 - 112	109%	SPK: 150
13127-88-3	Phenol-d6	128		21 - 104	85%	SPK: 150
4165-60-0	Nitrobenzene-d5	92.1		27 - 109	92%	SPK: 100
321-60-8	2-Fluorobiphenyl	89.6		30 - 103	90%	SPK: 100
118-79-6	2,4,6-Tribromophenol	149		10 - 121	100%	SPK: 150
1718-51-0	Terphenyl-d14	84.1		21 - 107	84%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	76900	6.84			
1146-65-2	Naphthalene-d8	293000	8.116			
15067-26-2	Acenaphthene-d10	157000	9.875			
1517-22-2	Phenanthrene-d10	314000	11.369			
1719-03-5	Chrysene-d12	231000	14.033			
1520-96-3	Perylene-d12	205000	15.539			
TENTATIVE IDENTIFIED COMPOUNDS						
000763-93-9	3-Hexen-2-one	2300	J		4.49	ug/Kg
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	3500	A		5.10	ug/Kg
000107-70-0	2-Pentanone, 4-methoxy-4-methyl-	78.7	J		5.86	ug/Kg
000791-28-6	Triphenylphosphine oxide	74.0	J		14.1	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:	LaBella Associates P.C.	Date Collected:	
Project:	Mackenna Parcels	Date Received:	
Client Sample ID:	PB154218BS	SDG No.:	O3645
Lab Sample ID:	PB154218BS	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP016413.D	1	07/17/23 08:30	07/28/23 09:12	PB154218

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	59.7		3.30	10.0	ug/L
108-95-2	Phenol	56.9		1.50	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	50.5		1.70	5.00	ug/L
95-57-8	2-Chlorophenol	54.9		1.40	5.00	ug/L
95-48-7	2-Methylphenol	52.0		2.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	52.9		2.30	5.00	ug/L
98-86-2	Acetophenone	48.6		1.80	5.00	ug/L
65794-96-9	3+4-Methylphenols	52.1		2.20	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	49.9		2.00	2.50	ug/L
67-72-1	Hexachloroethane	53.2		1.60	5.00	ug/L
98-95-3	Nitrobenzene	49.5		1.70	5.00	ug/L
78-59-1	Isophorone	47.8		1.70	5.00	ug/L
88-75-5	2-Nitrophenol	45.3		2.40	5.00	ug/L
105-67-9	2,4-Dimethylphenol	52.7		3.00	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	48.8		2.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	51.7		1.70	5.00	ug/L
91-20-3	Naphthalene	47.5		1.70	5.00	ug/L
106-47-8	4-Chloroaniline	31.3		2.50	5.00	ug/L
87-68-3	Hexachlorobutadiene	44.3		1.90	5.00	ug/L
105-60-2	Caprolactam	50.3		3.40	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	51.6		1.80	5.00	ug/L
91-57-6	2-Methylnaphthalene	45.5		2.20	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	120	E	5.70	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	50.3		1.50	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	46.4		1.60	5.00	ug/L
92-52-4	1,1-Biphenyl	47.6		1.80	5.00	ug/L
91-58-7	2-Chloronaphthalene	49.1		1.60	5.00	ug/L
88-74-4	2-Nitroaniline	52.6		2.40	5.00	ug/L
131-11-3	Dimethylphthalate	47.3		1.90	5.00	ug/L
208-96-8	Acenaphthylene	48.1		2.10	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	49.4		2.10	5.00	ug/L

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	
Project:	Mackenna Parcels	Date Received:	
Client Sample ID:	PB154218BS	SDG No.:	O3645
Lab Sample ID:	PB154218BS	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP016413.D	1	07/17/23 08:30	07/28/23 09:12	PB154218

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	40.2		2.40	5.00	ug/L
83-32-9	Acenaphthene	48.1		1.70	5.00	ug/L
51-28-5	2,4-Dinitrophenol	93.2	E	5.50	10.0	ug/L
100-02-7	4-Nitrophenol	120	E	2.80	10.0	ug/L
132-64-9	Dibenzofuran	46.8		1.60	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	52.3		2.50	5.00	ug/L
84-66-2	Diethylphthalate	48.0		2.10	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	45.5		2.20	5.00	ug/L
86-73-7	Fluorene	47.6		2.00	5.00	ug/L
100-01-6	4-Nitroaniline	49.0		2.30	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	48.5		1.80	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	49.8		2.00	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	46.5		2.00	5.00	ug/L
118-74-1	Hexachlorobenzene	47.2		1.90	5.00	ug/L
1912-24-9	Atrazine	60.9		3.50	5.00	ug/L
87-86-5	Pentachlorophenol	90.7	E	2.60	10.0	ug/L
85-01-8	Phenanthrene	49.8		2.00	5.00	ug/L
120-12-7	Anthracene	50.0		2.30	5.00	ug/L
86-74-8	Carbazole	51.7		1.70	5.00	ug/L
84-74-2	Di-n-butylphthalate	51.7		2.40	5.00	ug/L
206-44-0	Fluoranthene	48.9		2.10	5.00	ug/L
129-00-0	Pyrene	50.6		1.90	5.00	ug/L
85-68-7	Butylbenzylphthalate	54.1		2.80	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	42.2		5.40	10.0	ug/L
56-55-3	Benzo(a)anthracene	49.4		1.50	5.00	ug/L
218-01-9	Chrysene	48.3		1.60	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	53.5		2.90	5.00	ug/L
117-84-0	Di-n-octyl phthalate	54.7		3.10	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	54.0		1.50	5.00	ug/L
207-08-9	Benzo(k)fluoranthene	53.9		1.90	5.00	ug/L
50-32-8	Benzo(a)pyrene	48.7		2.70	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	49.3		2.10	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	49.8		2.00	5.00	ug/L

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Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	
Project:	Mackenna Parcels	Date Received:	
Client Sample ID:	PB154218BS	SDG No.:	O3645
Lab Sample ID:	PB154218BS	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP016413.D	1	07/17/23 08:30	07/28/23 09:12	PB154218

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
191-24-2	Benzo(g,h,i)perylene	48.3		1.90	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	45.3		2.10	5.00	ug/L
123-91-1	1,4-Dioxane	40.6		2.40	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	48.7		1.30	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	175		10 - 139	116%	SPK: 150
13127-88-3	Phenol-d6	166		10 - 134	111%	SPK: 150
4165-60-0	Nitrobenzene-d5	107		49 - 133	107%	SPK: 100
321-60-8	2-Fluorobiphenyl	101		52 - 132	101%	SPK: 100
118-79-6	2,4,6-Tribromophenol	135		45 - 141	90%	SPK: 150
1718-51-0	Terphenyl-d14	113		45 - 142	113%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	349000	8.093			
1146-65-2	Naphthalene-d8	1480000	10.922			
15067-26-2	Acenaphthene-d10	906000	14.734			
1517-22-2	Phenanthrene-d10	1940000	17.498			
1719-03-5	Chrysene-d12	1800000	21.586			
1520-96-3	Perylene-d12	1920000	24.186			

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

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	
Project:	Mackenna Parcels	Date Received:	
Client Sample ID:	PB154258BS	SDG No.:	O3645
Lab Sample ID:	PB154258BS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BF134357.D	1	07/18/23 09:45	07/19/23 14:07	PB154258

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	190	J	150	330	ug/Kg
108-95-2	Phenol	1400		74.3	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1500		89.7	170	ug/Kg
95-57-8	2-Chlorophenol	1500		71.9	170	ug/Kg
95-48-7	2-Methylphenol	1400		110	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1200		100	170	ug/Kg
98-86-2	Acetophenone	1500		86.6	170	ug/Kg
65794-96-9	3+4-Methylphenols	1500		110	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1500		58.9	79.9	ug/Kg
67-72-1	Hexachloroethane	1600		73.5	170	ug/Kg
98-95-3	Nitrobenzene	1400		75.1	170	ug/Kg
78-59-1	Isophorone	1400		68.0	170	ug/Kg
88-75-5	2-Nitrophenol	1400		95.0	170	ug/Kg
105-67-9	2,4-Dimethylphenol	1400		99.5	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1300		110	170	ug/Kg
120-83-2	2,4-Dichlorophenol	1400		78.0	170	ug/Kg
91-20-3	Naphthalene	1400		81.3	170	ug/Kg
106-47-8	4-Chloroaniline	350		100	170	ug/Kg
87-68-3	Hexachlorobutadiene	1600		83.9	170	ug/Kg
105-60-2	Caprolactam	1400		120	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1400		82.4	170	ug/Kg
91-57-6	2-Methylnaphthalene	1300		94.8	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	2300		210	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1400		77.0	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1300		87.8	170	ug/Kg
92-52-4	1,1-Biphenyl	1400		91.2	170	ug/Kg
91-58-7	2-Chloronaphthalene	1400		84.5	170	ug/Kg
88-74-4	2-Nitroaniline	1300		99.2	170	ug/Kg
131-11-3	Dimethylphthalate	1400		88.8	170	ug/Kg
208-96-8	Acenaphthylene	1300		88.3	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	1400		89.9	170	ug/Kg

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	
Project:	Mackenna Parcels	Date Received:	
Client Sample ID:	PB154258BS	SDG No.:	O3645
Lab Sample ID:	PB154258BS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BF134357.D	1	07/18/23 09:45	07/19/23 14:07	PB154258

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
99-09-2	3-Nitroaniline	800		93.3	170	ug/Kg
83-32-9	Acenaphthene	1400		80.2	170	ug/Kg
51-28-5	2,4-Dinitrophenol	2700	E	180	330	ug/Kg
100-02-7	4-Nitrophenol	2200		110	330	ug/Kg
132-64-9	Dibenzofuran	1400		76.8	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	1400		99.8	170	ug/Kg
84-66-2	Diethylphthalate	1400		85.8	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1400		90.3	170	ug/Kg
86-73-7	Fluorene	1400		84.7	170	ug/Kg
100-01-6	4-Nitroaniline	1100		100	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1600		87.7	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1400		93.2	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1500		97.3	170	ug/Kg
118-74-1	Hexachlorobenzene	1600		98.7	170	ug/Kg
1912-24-9	Atrazine	970		95.3	170	ug/Kg
87-86-5	Pentachlorophenol	2300		110	330	ug/Kg
85-01-8	Phenanthrene	1400		92.6	170	ug/Kg
120-12-7	Anthracene	1400		100	170	ug/Kg
86-74-8	Carbazole	1500		84.8	170	ug/Kg
84-74-2	Di-n-butylphthalate	1500		100	170	ug/Kg
206-44-0	Fluoranthene	1500		94.3	170	ug/Kg
129-00-0	Pyrene	1200		83.6	170	ug/Kg
85-68-7	Butylbenzylphthalate	1400		100	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1000		160	330	ug/Kg
56-55-3	Benzo(a)anthracene	1400		83.8	170	ug/Kg
218-01-9	Chrysene	1400		86.7	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1600		110	170	ug/Kg
117-84-0	Di-n-octyl phthalate	1600		120	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	1800		80.2	170	ug/Kg
207-08-9	Benzo(k)fluoranthene	1600		88.0	170	ug/Kg
50-32-8	Benzo(a)pyrene	1500		94.2	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1600		110	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1600		96.4	170	ug/Kg

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Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	
Project:	Mackenna Parcels	Date Received:	
Client Sample ID:	PB154258BS	SDG No.:	O3645
Lab Sample ID:	PB154258BS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BF134357.D	1	07/18/23 09:45	07/19/23 14:07	PB154258

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
191-24-2	Benzo(g,h,i)perylene	1500		92.4	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1500		89.3	170	ug/Kg
123-91-1	1,4-Dioxane	1300		120	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1400		82.8	170	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	120		18 - 112	80%	SPK: 150
13127-88-3	Phenol-d6	116		21 - 104	77%	SPK: 150
4165-60-0	Nitrobenzene-d5	80.7		27 - 109	81%	SPK: 100
321-60-8	2-Fluorobiphenyl	83.8		30 - 103	84%	SPK: 100
118-79-6	2,4,6-Tribromophenol	127		10 - 121	85%	SPK: 150
1718-51-0	Terphenyl-d14	80.1		21 - 107	80%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	73500	6.84			
1146-65-2	Naphthalene-d8	287000	8.122			
15067-26-2	Acenaphthene-d10	148000	9.881			
1517-22-2	Phenanthrene-d10	284000	11.375			
1719-03-5	Chrysene-d12	207000	14.039			
1520-96-3	Perylene-d12	163000	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:	LaBella Associates P.C.	Date Collected:	
Project:	Mackenna Parcels	Date Received:	
Client Sample ID:	PB154218BSD	SDG No.:	O3645
Lab Sample ID:	PB154218BSD	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP016414.D	1	07/17/23 08:30	07/28/23 09:48	PB154218

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	58.9		3.30	10.0	ug/L
108-95-2	Phenol	56.1		1.50	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	50.3		1.70	5.00	ug/L
95-57-8	2-Chlorophenol	54.8		1.40	5.00	ug/L
95-48-7	2-Methylphenol	51.6		2.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	52.1		2.30	5.00	ug/L
98-86-2	Acetophenone	48.3		1.80	5.00	ug/L
65794-96-9	3+4-Methylphenols	51.6		2.20	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	49.0		2.00	2.50	ug/L
67-72-1	Hexachloroethane	52.2		1.60	5.00	ug/L
98-95-3	Nitrobenzene	48.9		1.70	5.00	ug/L
78-59-1	Isophorone	47.4		1.70	5.00	ug/L
88-75-5	2-Nitrophenol	46.6		2.40	5.00	ug/L
105-67-9	2,4-Dimethylphenol	52.5		3.00	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	48.3		2.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	51.5		1.70	5.00	ug/L
91-20-3	Naphthalene	47.4		1.70	5.00	ug/L
106-47-8	4-Chloroaniline	31.1		2.50	5.00	ug/L
87-68-3	Hexachlorobutadiene	45.3		1.90	5.00	ug/L
105-60-2	Caprolactam	51.0		3.40	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	51.6		1.80	5.00	ug/L
91-57-6	2-Methylnaphthalene	45.3		2.20	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	120	E	5.70	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	50.7		1.50	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	46.5		1.60	5.00	ug/L
92-52-4	1,1-Biphenyl	47.6		1.80	5.00	ug/L
91-58-7	2-Chloronaphthalene	49.0		1.60	5.00	ug/L
88-74-4	2-Nitroaniline	53.0		2.40	5.00	ug/L
131-11-3	Dimethylphthalate	47.1		1.90	5.00	ug/L
208-96-8	Acenaphthylene	48.1		2.10	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	49.3		2.10	5.00	ug/L

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	
Project:	Mackenna Parcels	Date Received:	
Client Sample ID:	PB154218BSD	SDG No.:	O3645
Lab Sample ID:	PB154218BSD	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP016414.D	1	07/17/23 08:30	07/28/23 09:48	PB154218

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	40.6		2.40	5.00	ug/L
83-32-9	Acenaphthene	48.0		1.70	5.00	ug/L
51-28-5	2,4-Dinitrophenol	97.1	E	5.50	10.0	ug/L
100-02-7	4-Nitrophenol	120	E	2.80	10.0	ug/L
132-64-9	Dibenzofuran	46.6		1.60	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	52.5		2.50	5.00	ug/L
84-66-2	Diethylphthalate	48.1		2.10	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	45.6		2.20	5.00	ug/L
86-73-7	Fluorene	47.7		2.00	5.00	ug/L
100-01-6	4-Nitroaniline	49.4		2.30	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	49.4		1.80	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	49.4		2.00	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	46.3		2.00	5.00	ug/L
118-74-1	Hexachlorobenzene	46.8		1.90	5.00	ug/L
1912-24-9	Atrazine	60.5		3.50	5.00	ug/L
87-86-5	Pentachlorophenol	90.4	E	2.60	10.0	ug/L
85-01-8	Phenanthrene	49.1		2.00	5.00	ug/L
120-12-7	Anthracene	49.4		2.30	5.00	ug/L
86-74-8	Carbazole	51.1		1.70	5.00	ug/L
84-74-2	Di-n-butylphthalate	51.3		2.40	5.00	ug/L
206-44-0	Fluoranthene	48.4		2.10	5.00	ug/L
129-00-0	Pyrene	50.3		1.90	5.00	ug/L
85-68-7	Butylbenzylphthalate	54.1		2.80	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	41.6		5.40	10.0	ug/L
56-55-3	Benzo(a)anthracene	49.3		1.50	5.00	ug/L
218-01-9	Chrysene	48.2		1.60	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	53.6		2.90	5.00	ug/L
117-84-0	Di-n-octyl phthalate	54.8		3.10	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	53.5		1.50	5.00	ug/L
207-08-9	Benzo(k)fluoranthene	53.3		1.90	5.00	ug/L
50-32-8	Benzo(a)pyrene	48.5		2.70	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	49.5		2.10	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	49.6		2.00	5.00	ug/L

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Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	
Project:	Mackenna Parcels	Date Received:	
Client Sample ID:	PB154218BSD	SDG No.:	O3645
Lab Sample ID:	PB154218BSD	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP016414.D	1	07/17/23 08:30	07/28/23 09:48	PB154218

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
191-24-2	Benzo(g,h,i)perylene	48.3		1.90	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	45.6		2.10	5.00	ug/L
123-91-1	1,4-Dioxane	40.5		2.40	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	49.0		1.30	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	175		10 - 139	117%	SPK: 150
13127-88-3	Phenol-d6	165		10 - 134	110%	SPK: 150
4165-60-0	Nitrobenzene-d5	107		49 - 133	107%	SPK: 100
321-60-8	2-Fluorobiphenyl	101		52 - 132	101%	SPK: 100
118-79-6	2,4,6-Tribromophenol	136		45 - 141	91%	SPK: 150
1718-51-0	Terphenyl-d14	112		45 - 142	112%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	341000	8.087			
1146-65-2	Naphthalene-d8	1440000	10.922			
15067-26-2	Acenaphthene-d10	878000	14.734			
1517-22-2	Phenanthrene-d10	1900000	17.498			
1719-03-5	Chrysene-d12	1780000	21.586			
1520-96-3	Perylene-d12	1920000	24.186			

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

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/12/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-04-(1-5)MS	SDG No.:	O3645
Lab Sample ID:	O3645-09MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	91.3
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BM041174.D	1	07/18/23 09:45	07/28/23 20:22	PB154258

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	1700		160	360	ug/Kg
108-95-2	Phenol	1800		81.4	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1700		98.3	190	ug/Kg
95-57-8	2-Chlorophenol	1700		78.8	190	ug/Kg
95-48-7	2-Methylphenol	1600		120	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1700		110	190	ug/Kg
98-86-2	Acetophenone	1600		94.9	190	ug/Kg
65794-96-9	3+4-Methylphenols	1700		120	360	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1700		64.6	87.5	ug/Kg
67-72-1	Hexachloroethane	1700		80.5	190	ug/Kg
98-95-3	Nitrobenzene	1600		82.3	190	ug/Kg
78-59-1	Isophorone	1600		74.5	190	ug/Kg
88-75-5	2-Nitrophenol	1700		100	190	ug/Kg
105-67-9	2,4-Dimethylphenol	1700		110	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1600		120	190	ug/Kg
120-83-2	2,4-Dichlorophenol	1700		85.5	190	ug/Kg
91-20-3	Naphthalene	1600		89.1	190	ug/Kg
106-47-8	4-Chloroaniline	1400		110	190	ug/Kg
87-68-3	Hexachlorobutadiene	1600		91.9	190	ug/Kg
105-60-2	Caprolactam	1800		130	360	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1700		90.3	190	ug/Kg
91-57-6	2-Methylnaphthalene	1600		100	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	3400	E	230	360	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1700		84.4	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1600		96.2	190	ug/Kg
92-52-4	1,1-Biphenyl	1600		99.9	190	ug/Kg
91-58-7	2-Chloronaphthalene	1700		92.6	190	ug/Kg
88-74-4	2-Nitroaniline	1700		110	190	ug/Kg
131-11-3	Dimethylphthalate	1800		97.3	190	ug/Kg
208-96-8	Acenaphthylene	1600		96.7	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	1700		98.5	190	ug/Kg

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/12/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-04-(1-5)MS	SDG No.:	O3645
Lab Sample ID:	O3645-09MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	91.3
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BM041174.D	1	07/18/23 09:45	07/28/23 20:22	PB154258

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
99-09-2	3-Nitroaniline	1500		100	190	ug/Kg
83-32-9	Acenaphthene	1600		87.9	190	ug/Kg
51-28-5	2,4-Dinitrophenol	3000	E	200	360	ug/Kg
100-02-7	4-Nitrophenol	4100	E	120	360	ug/Kg
132-64-9	Dibenzofuran	1600		84.1	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	1600		110	190	ug/Kg
84-66-2	Diethylphthalate	1700		94.0	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1600		98.9	190	ug/Kg
86-73-7	Fluorene	1700		92.8	190	ug/Kg
100-01-6	4-Nitroaniline	1500		110	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1500		96.1	360	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1600		100	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1600		110	190	ug/Kg
118-74-1	Hexachlorobenzene	1700		110	190	ug/Kg
1912-24-9	Atrazine	2100		100	190	ug/Kg
87-86-5	Pentachlorophenol	3300	E	120	360	ug/Kg
85-01-8	Phenanthrene	1700		100	190	ug/Kg
120-12-7	Anthracene	1700		110	190	ug/Kg
86-74-8	Carbazole	1700		92.9	190	ug/Kg
84-74-2	Di-n-butylphthalate	1800		110	190	ug/Kg
206-44-0	Fluoranthene	1900		100	190	ug/Kg
129-00-0	Pyrene	1800		91.6	190	ug/Kg
85-68-7	Butylbenzylphthalate	1900		110	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1900		180	360	ug/Kg
56-55-3	Benzo(a)anthracene	1800		91.8	190	ug/Kg
218-01-9	Chrysene	1700		95.0	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1800		130	190	ug/Kg
117-84-0	Di-n-octyl phthalate	1900		130	360	ug/Kg
205-99-2	Benzo(b)fluoranthene	1900		87.9	190	ug/Kg
207-08-9	Benzo(k)fluoranthene	1700		96.4	190	ug/Kg
50-32-8	Benzo(a)pyrene	1600		100	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1700		120	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1700		110	190	ug/Kg

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/12/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-04-(1-5)MS	SDG No.:	O3645
Lab Sample ID:	O3645-09MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	91.3
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BM041174.D	1	07/18/23 09:45	07/28/23 20:22	PB154258

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
191-24-2	Benzo(g,h,i)perylene	1700		100	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1600		97.8	190	ug/Kg
123-91-1	1,4-Dioxane	1300		130	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1700		90.7	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	98.9		18 - 112	66%	SPK: 150
13127-88-3	Phenol-d6	101		21 - 104	68%	SPK: 150
4165-60-0	Nitrobenzene-d5	64.1		27 - 109	64%	SPK: 100
321-60-8	2-Fluorobiphenyl	63.7		30 - 103	64%	SPK: 100
118-79-6	2,4,6-Tribromophenol	104		10 - 121	70%	SPK: 150
1718-51-0	Terphenyl-d14	70.4		21 - 107	70%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	184000	7.804			
1146-65-2	Naphthalene-d8	716000	10.61			
15067-26-2	Acenaphthene-d10	398000	14.468			
1517-22-2	Phenanthrene-d10	828000	17.227			
1719-03-5	Chrysene-d12	796000	21.427			
1520-96-3	Perylene-d12	909000	23.797			

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

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/12/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-04-(1-5)MSD	SDG No.:	O3645
Lab Sample ID:	O3645-10MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	91.3
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BM041175.D	1	07/18/23 09:45	07/28/23 21:00	PB154258

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	1700		160	360	ug/Kg
108-95-2	Phenol	1800		81.4	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1700		98.2	190	ug/Kg
95-57-8	2-Chlorophenol	1700		78.7	190	ug/Kg
95-48-7	2-Methylphenol	1700		120	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1700		110	190	ug/Kg
98-86-2	Acetophenone	1600		94.8	190	ug/Kg
65794-96-9	3+4-Methylphenols	1700		120	360	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1700		64.5	87.5	ug/Kg
67-72-1	Hexachloroethane	1700		80.5	190	ug/Kg
98-95-3	Nitrobenzene	1600		82.2	190	ug/Kg
78-59-1	Isophorone	1700		74.5	190	ug/Kg
88-75-5	2-Nitrophenol	1800		100	190	ug/Kg
105-67-9	2,4-Dimethylphenol	1700		110	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1600		120	190	ug/Kg
120-83-2	2,4-Dichlorophenol	1800		85.4	190	ug/Kg
91-20-3	Naphthalene	1600		89.0	190	ug/Kg
106-47-8	4-Chloroaniline	1400		110	190	ug/Kg
87-68-3	Hexachlorobutadiene	1600		91.9	190	ug/Kg
105-60-2	Caprolactam	1800		130	360	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1800		90.2	190	ug/Kg
91-57-6	2-Methylnaphthalene	1600		100	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	3400	E	230	360	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1800		84.3	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1600		96.1	190	ug/Kg
92-52-4	1,1-Biphenyl	1600		99.8	190	ug/Kg
91-58-7	2-Chloronaphthalene	1700		92.5	190	ug/Kg
88-74-4	2-Nitroaniline	1800		110	190	ug/Kg
131-11-3	Dimethylphthalate	1800		97.2	190	ug/Kg
208-96-8	Acenaphthylene	1700		96.7	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	1700		98.4	190	ug/Kg

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/12/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-04-(1-5)MSD	SDG No.:	O3645
Lab Sample ID:	O3645-10MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	91.3
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BM041175.D	1	07/18/23 09:45	07/28/23 21:00	PB154258

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
99-09-2	3-Nitroaniline	1500		100	190	ug/Kg
83-32-9	Acenaphthene	1700		87.8	190	ug/Kg
51-28-5	2,4-Dinitrophenol	2900		200	360	ug/Kg
100-02-7	4-Nitrophenol	4100	E	120	360	ug/Kg
132-64-9	Dibenzofuran	1600		84.1	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	1600		110	190	ug/Kg
84-66-2	Diethylphthalate	1700		93.9	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1700		98.8	190	ug/Kg
86-73-7	Fluorene	1700		92.7	190	ug/Kg
100-01-6	4-Nitroaniline	1600		110	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1500		96.0	360	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1600		100	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1700		110	190	ug/Kg
118-74-1	Hexachlorobenzene	1800		110	190	ug/Kg
1912-24-9	Atrazine	2200		100	190	ug/Kg
87-86-5	Pentachlorophenol	3400	E	120	360	ug/Kg
85-01-8	Phenanthrene	1800		100	190	ug/Kg
120-12-7	Anthracene	1700		110	190	ug/Kg
86-74-8	Carbazole	1800		92.8	190	ug/Kg
84-74-2	Di-n-butylphthalate	1900		110	190	ug/Kg
206-44-0	Fluoranthene	1900		100	190	ug/Kg
129-00-0	Pyrene	1800		91.5	190	ug/Kg
85-68-7	Butylbenzylphthalate	1900		110	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	2000		180	360	ug/Kg
56-55-3	Benzo(a)anthracene	1800		91.7	190	ug/Kg
218-01-9	Chrysene	1700		94.9	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1800		130	190	ug/Kg
117-84-0	Di-n-octyl phthalate	2000		130	360	ug/Kg
205-99-2	Benzo(b)fluoranthene	1900		87.8	190	ug/Kg
207-08-9	Benzo(k)fluoranthene	1700		96.3	190	ug/Kg
50-32-8	Benzo(a)pyrene	1700		100	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1700		120	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1700		110	190	ug/Kg

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/12/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-04-(1-5)MSD	SDG No.:	O3645
Lab Sample ID:	O3645-10MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	91.3
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BM041175.D	1	07/18/23 09:45	07/28/23 21:00	PB154258

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
191-24-2	Benzo(g,h,i)perylene	1700		100	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1700		97.8	190	ug/Kg
123-91-1	1,4-Dioxane	1300		130	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1800		90.6	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	98.6		18 - 112	66%	SPK: 150
13127-88-3	Phenol-d6	101		21 - 104	68%	SPK: 150
4165-60-0	Nitrobenzene-d5	65.1		27 - 109	65%	SPK: 100
321-60-8	2-Fluorobiphenyl	65.3		30 - 103	65%	SPK: 100
118-79-6	2,4,6-Tribromophenol	106		10 - 121	71%	SPK: 150
1718-51-0	Terphenyl-d14	71.1		21 - 107	71%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	193000	7.804			
1146-65-2	Naphthalene-d8	742000	10.61			
15067-26-2	Acenaphthene-d10	413000	14.468			
1517-22-2	Phenanthrene-d10	855000	17.227			
1719-03-5	Chrysene-d12	829000	21.427			
1520-96-3	Perylene-d12	953000	23.797			

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-BF062623.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Mon Jun 26 23:12:04 2023
Response Via : Initial Calibration

Calibration Files
2.5 =BF133953.D 5 =BF133954.D 10 =BF133955.D 20 =BF133956.D 40 =BF133957.D 50 =BF133958.D 60 =BF133959.D 80 =BF1339
60.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	ISTD									
2)		1,4-Dioxane		0.509	0.533	0.541	0.491	0.448	0.478	0.449	0.493	7.56
3)		Pyridine		1.291	1.230	1.419	1.277	1.209	1.313	1.251	1.284	5.39
4)		n-Nitrosodimet...		0.712	0.747	0.769	0.743	0.693	0.757	0.713	0.733	3.77
5)	S	2-Fluorophenol		1.333	1.301	1.332	1.173	1.076	1.120	1.034	1.196	10.54
6)		Aniline		1.914	1.876	1.956	1.789	1.688	1.709	1.592	1.789	7.45
7)	S	Phenol-d6		1.666	1.625	1.588	1.420	1.341	1.377	1.275	1.470	10.47
8)		2-Chlorophenol		1.370	1.327	1.334	1.184	1.124	1.120	1.036	1.214	10.68
9)		Benzaldehyde		1.029	1.058	0.971	0.808	0.730	0.719		0.886	17.16
10)	C	Phenol		1.770	1.703	1.706	1.507	1.412	1.428	1.297	1.546	11.68
11)		bis(2-Chloroet...		1.269	1.206	1.224	1.120	1.060	1.081	1.007	1.138	8.49
12)		1,3-Dichlorobe...		1.436	1.401	1.413	1.267	1.184	1.225	1.132	1.294	9.44
13)	C	1,4-Dichlorobe...		1.446	1.420	1.431	1.293	1.203	1.231	1.126	1.307	9.74
14)		1,2-Dichlorobe...		1.424	1.367	1.341	1.176	1.115	1.127	1.017	1.224	12.51
15)		Benzyl Alcohol		1.209	1.230	1.250	1.141	1.039	1.084	0.981	1.134	9.08
16)		2,2'-oxybis(1-...		2.231	2.170	2.160	1.981	1.913	1.898	1.743	2.014	8.86
17)		2-Methylphenol		1.172	1.170	1.175	1.078	1.025	1.018	0.971	1.087	7.87
18)		Hexachloroethane		0.532	0.519	0.520	0.482	0.449	0.463	0.427	0.485	8.29
19)	P	n-Nitroso-di-n...	1.083	1.033	0.997	1.007	0.887	0.815	0.849	0.788	0.932	11.89
20)		3+4-Methylphenols		1.527	1.485	1.480	1.290	1.177	1.200	1.071	1.319	13.63
21)	I	Naphthalene-d8	ISTD									
22)		Acetophenone		0.523	0.509	0.489	0.439	0.408	0.428	0.389	0.455	11.41
23)	S	Nitrobenzene-d5		0.381	0.398	0.393	0.371	0.347	0.369	0.338	0.371	6.01
24)		Nitrobenzene		0.376	0.400	0.401	0.379	0.352	0.375	0.342	0.375	5.90
25)		Isophorone		0.712	0.715	0.701	0.661	0.633	0.667	0.629	0.674	5.35
26)	C	2-Nitrophenol		0.173	0.179	0.193	0.185	0.176	0.181	0.173	0.180	4.09
27)		2,4-Dimethylph...		0.301	0.303	0.305	0.285	0.265	0.276	0.258	0.285	6.69
28)		bis(2-Chloroet...		0.418	0.422	0.414	0.391	0.363	0.374	0.351	0.390	7.35
29)	C	2,4-Dichloroph...		0.306	0.292	0.304	0.284	0.263	0.274	0.253	0.282	7.07
30)		1,2,4-Trichlor...		0.315	0.308	0.311	0.290	0.268	0.286	0.262	0.291	7.25
31)		Naphthalene		1.073	1.058	1.041	0.951	0.881	0.924	0.835	0.966	9.64
32)		Benzoic acid		0.164	0.198	0.232	0.229	0.219	0.227	0.225	0.213	11.62
33)		4-Chloroaniline		0.437	0.441	0.443	0.414	0.389	0.401	0.368	0.413	6.93
34)	C	Hexachlorobuta...		0.195	0.198	0.195	0.183	0.172	0.180	0.163	0.184	7.07
35)		Caprolactam		0.094	0.096	0.097	0.094	0.088	0.094	0.088	0.093	3.60
36)	C	4-Chloro-3-met...		0.337	0.342	0.333	0.315	0.294	0.310	0.289	0.317	6.65
37)		2-Methylnaphth...		0.796	0.754	0.732	0.666	0.609	0.640	0.585	0.683	11.55
38)		1-Methylnaphth...		0.753	0.696	0.672	0.616	0.566	0.598	0.544	0.635	11.84

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF062623.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.626	0.639	0.634	0.585	0.562	0.574	0.528	0.593	7.08
41)	P	Hexachlorocycl...		0.214	0.264	0.295	0.297	0.310	0.307	0.281	12.98
42)	S	2,4,6-Tribromo...	0.259	0.274	0.270	0.248	0.235	0.243	0.225	0.251	7.23
43)	C	2,4,6-Trichlor...	0.412	0.433	0.423	0.404	0.391	0.394	0.367	0.403	5.45
44)		2,4,5-Trichlor...	0.494	0.503	0.500	0.473	0.454	0.467	0.431	0.474	5.57
45)	S	2-Fluorobiphenyl	1.574	1.574	1.501	1.328	1.243	1.265	1.144	1.376	12.61
46)		1,1'-Biphenyl	1.764	1.767	1.710	1.576	1.508	1.526	1.379	1.604	9.19
47)		2-Chloronaphth...	1.283	1.285	1.236	1.154	1.106	1.123	1.030	1.174	8.26
48)		2-Nitroaniline	0.407	0.444	0.452	0.431	0.422	0.432	0.406	0.428	4.05
49)		Acenaphthylene	2.169	2.206	2.171	1.979	1.901	1.909	1.703	2.005	9.26
50)		Dimethylphthalate	1.544	1.581	1.522	1.425	1.374	1.408	1.308	1.452	6.85
51)		2,6-Dinitrotol...	0.316	0.323	0.329	0.318	0.303	0.315	0.285	0.313	4.69
52)	C	Acenaphthene	1.242	1.279	1.252	1.143	1.089	1.122	1.018	1.164	8.33
53)		3-Nitroaniline	0.377	0.389	0.404	0.375	0.356	0.374	0.350	0.375	4.92
54)	P	2,4-Dinitrophenol		0.122	0.147	0.168	0.169	0.192	0.176	0.162	15.11
55)		Dibenzofuran	2.044	2.015	1.960	1.802	1.692	1.701	1.514	1.818	10.82
56)	P	4-Nitrophenol	0.236	0.262	0.280	0.269	0.265	0.272	0.253	0.262	5.43
57)		2,4-Dinitrotol...	0.417	0.439	0.450	0.417	0.396	0.407	0.364	0.413	6.84
58)		Fluorene	1.585	1.611	1.541	1.373	1.289	1.319	1.185	1.415	11.65
59)		2,3,4,6-Tetrac...	0.392	0.401	0.390	0.368	0.357	0.372	0.339	0.374	5.81
60)		Diethylphthalate	1.631	1.692	1.612	1.489	1.415	1.448	1.303	1.513	9.12
61)		4-Chlorophenyl...	0.773	0.767	0.733	0.667	0.623	0.638	0.572	0.682	11.35
62)		4-Nitroaniline	0.380	0.396	0.402	0.377	0.370	0.378	0.343	0.378	5.03
63)		Azobenzene	1.531	1.554	1.512	1.408	1.358	1.374	1.279	1.431	7.21
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...	0.084	0.102	0.113	0.117	0.112	0.119	0.115	0.109	11.21
66)	c	n-Nitrosodiphe...	0.718	0.680	0.685	0.628	0.586	0.603	0.572	0.639	8.76
67)		4-Bromophenyl-...	0.227	0.222	0.228	0.213	0.199	0.203	0.196	0.213	6.33
68)		Hexachlorobenzene	0.241	0.236	0.242	0.221	0.211	0.222	0.207	0.226	6.33
69)		Atrazine	0.194	0.201	0.195	0.167	0.161	0.167	0.152	0.177	10.94
70)	C	Pentachlorophenol	0.119	0.135	0.144	0.141	0.134	0.137	0.135	0.135	5.81
71)		Phenanthrene	1.119	1.105	1.087	0.981	0.929	0.951	0.876	1.007	9.57
72)		Anthracene	1.184	1.145	1.149	1.015	0.951	0.988	0.898	1.047	10.64
73)		Carbazole	1.087	1.066	1.056	0.950	0.814	0.902	0.835	0.959	11.81
74)		Di-n-butylphth...	1.265	1.264	1.254	1.141	0.982	1.084	0.989	1.140	11.04
75)	C	Fluoranthene	1.284	1.246	1.207	1.054	0.919	1.012	0.897	1.088	14.52
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine		0.583	0.479	0.512	0.452	0.410	0.418	0.476	13.66
78)		Pyrene	1.804	1.790	1.865	1.963	1.871	1.934	1.802	1.861	3.65
79)	S	Terphenyl-d14	1.283	1.241	1.284	1.267	1.214	1.253	1.156	1.243	3.64
80)		Butylbenzylpht...	0.668	0.702	0.723	0.721	0.685	0.720	0.666	0.698	3.58
81)		Benzo(a)anthra...	1.500	1.462	1.433	1.379	1.312	1.356	1.267	1.387	6.01
82)		3,3'-Dichlorob...	0.487	0.486	0.465	0.430	0.412	0.412	0.384	0.439	9.12
83)		Chrysene	1.472	1.404	1.400	1.329	1.260	1.306	1.234	1.343	6.39
84)		Bis(2-ethylhex...	0.753	0.832	0.832	0.821	0.785	0.822	0.770	0.802	4.02
85)	c	Di-n-octyl pht...	1.061	1.124	1.137	1.199	1.189	1.264	1.277	1.179	6.56

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF062623.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.095	1.182	1.435	1.520	1.545	1.488	1.449	1.388	12.71
88)		Benzo(b)fluora...	1.188	1.314	1.268	1.181	1.070	1.114	1.097	1.176	7.68
89)		Benzo(k)fluora...	1.276	1.365	1.306	1.161	1.093	1.156	1.025	1.197	10.23
90)	C	Benzo(a)pyrene	1.167	1.199	1.199	1.137	1.072	1.123	1.064	1.137	4.86
91)		Dibenzo(a,h)an...	0.911	0.995	1.181	1.240	1.255	1.200	1.153	1.134	11.50
92)		Benzo(g,h,i)pe...	0.965	0.979	1.212	1.269	1.296	1.247	1.214	1.169	11.79

(#) = Out of Range

Response Factor Report BNA_F

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF072423.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Tue Jul 25 01:46:04 2023
Response Via : Initial Calibration

Calibration Files
2.5 =BF134427.D 5 =BF134428.D 10 =BF134429.D 20 =BF134430.D 40 =BF134431.D 50 =BF134432.D 60 =BF134433.D 80 =BF1344
34.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------	ISTD	----------							
2)		1,4-Dioxane		0.558	0.517	0.535	0.505	0.485	0.520	0.473	0.513	5.62
3)		Pyridine		0.951	1.128	1.205	1.226	1.192	1.221	1.144	1.153	8.34
4)		n-Nitrosodimet...		0.555	0.639	0.738	0.691	0.706	0.739	0.700	0.681	9.55
5)	S	2-Fluorophenol		1.153	1.231	1.311	1.266	1.166	1.221	1.126	1.211	5.46
6)		Aniline		1.728	1.863	1.890	1.789	1.672	1.719	1.575	1.748	6.26
7)	S	Phenol-d6		1.506	1.570	1.615	1.483	1.407	1.456	1.345	1.483	6.22
8)		2-Chlorophenol		1.265	1.281	1.316	1.252	1.162	1.201	1.107	1.226	5.97
9)		Benzaldehyde			0.931	0.895	0.749	0.705	0.690		0.794	14.01
10)	C	Phenol		1.606	1.569	1.663	1.568	1.457	1.533	1.406	1.543	5.68
11)		bis(2-Chloroet...		1.187	1.110	1.091	1.067	1.005	1.089	0.992	1.077	6.13
12)		1,3-Dichlorobe...		1.332	1.353	1.431	1.369	1.240	1.310	1.194	1.319	6.05
13)	C	1,4-Dichlorobe...		1.482	1.400	1.450	1.386	1.245	1.323	1.214	1.357	7.44
14)		1,2-Dichlorobe...		1.367	1.339	1.379	1.270	1.184	1.251	1.134	1.275	7.31
15)		Benzyl Alcohol		1.109	1.122	1.242	1.217	1.109	1.163	1.055	1.145	5.77
16)		2,2'-oxybis(1-...		1.635	1.692	1.667	1.590	1.514	1.579	1.428	1.586	5.77
17)		2-Methylphenol		1.209	1.112	1.159	1.122	1.017	1.062	0.974	1.094	7.47
18)		Hexachloroethane		0.544	0.559	0.561	0.518	0.488	0.511	0.468	0.521	6.80
19)	P	n-Nitroso-di-n...	1.030	0.926	0.966	0.980	0.928	0.855	0.886	0.816	0.923	7.54
20)		3+4-Methylphenols		1.477	1.518	1.508	1.423	1.294	1.337	1.245	1.400	7.79
21)	I	Naphthalene-d8	----------	ISTD	----------							
22)		Acetophenone		0.503	0.522	0.518	0.503	0.476	0.490	0.470	0.497	4.00
23)	S	Nitrobenzene-d5		0.383	0.396	0.407	0.404	0.388	0.401	0.389	0.395	2.30
24)		Nitrobenzene		0.398	0.390	0.403	0.392	0.385	0.401	0.383	0.393	1.96
25)		Isophorone		0.657	0.670	0.674	0.668	0.644	0.662	0.637	0.659	2.11
26)	C	2-Nitrophenol		0.165	0.180	0.190	0.186	0.181	0.185	0.178	0.181	4.35
27)		2,4-Dimethylph...		0.281	0.293	0.298	0.288	0.277	0.281	0.279	0.285	2.72
28)		bis(2-Chloroet...		0.363	0.370	0.379	0.368	0.362	0.371	0.353	0.367	2.27
29)	C	2,4-Dichloroph...		0.284	0.293	0.291	0.292	0.277	0.286	0.274	0.285	2.62
30)		1,2,4-Trichlor...		0.314	0.317	0.312	0.315	0.298	0.306	0.293	0.308	3.04
31)		Naphthalene		0.988	1.042	1.028	1.011	0.951	0.996	0.952	0.995	3.53
32)		Benzoic acid		0.150	0.168	0.197	0.203	0.191	0.211	0.214	0.191	12.36
33)		4-Chloroaniline		0.414	0.417	0.431	0.422	0.394	0.403	0.399	0.411	3.19
34)	C	Hexachlorobuta...		0.204	0.215	0.218	0.212	0.197	0.204	0.193	0.206	4.45
35)		Caprolactam		0.080	0.092	0.086	0.091	0.086	0.089	0.086	0.087	4.47
36)	C	4-Chloro-3-met...		0.327	0.336	0.331	0.336	0.322	0.332	0.319	0.329	1.98
37)		2-Methylnaphth...		0.722	0.711	0.716	0.702	0.660	0.681	0.651	0.692	4.06
38)		1-Methylnaphth...		0.671	0.644	0.673	0.650	0.620	0.632	0.601	0.642	4.10

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF072423.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.655	0.661	0.654	0.582	0.614	0.652	0.620	0.634	4.61
41)	P	Hexachlorocycl...		0.060	0.111	0.151	0.182	0.193	0.216	0.152	38.06
42)	S	2,4,6-Tribromo...	0.274	0.274	0.300	0.293	0.277	0.292	0.279	0.284	3.78
43)	C	2,4,6-Trichlor...	0.404	0.409	0.420	0.417	0.389	0.410	0.398	0.407	2.64
44)		2,4,5-Trichlor...	0.459	0.452	0.503	0.492	0.454	0.488	0.469	0.474	4.34
45)	S	2-Fluorobiphenyl	1.576	1.594	1.604	1.555	1.427	1.499	1.408	1.523	5.26
46)		1,1'-Biphenyl	1.667	1.679	1.735	1.681	1.559	1.642	1.576	1.648	3.77
47)		2-Chloronaphth...	1.231	1.248	1.258	1.234	1.144	1.221	1.170	1.215	3.47
48)		2-Nitroaniline	0.408	0.418	0.441	0.461	0.430	0.460	0.445	0.438	4.66
49)		Acenaphthylene	2.042	2.114	2.151	2.112	1.923	2.074	1.955	2.053	4.17
50)		Dimethylphthalate	1.433	1.488	1.541	1.523	1.429	1.511	1.453	1.483	3.03
51)		2,6-Dinitrotol...	0.326	0.316	0.332	0.339	0.308	0.335	0.321	0.325	3.36
52)	C	Acenaphthene	1.250	1.200	1.264	1.249	1.146	1.216	1.164	1.213	3.74
53)		3-Nitroaniline	0.343	0.375	0.402	0.386	0.364	0.376	0.364	0.373	4.95
54)	P	2,4-Dinitrophenol		0.089	0.122	0.149	0.158	0.167	0.173	0.143	22.41
55)		Dibenzofuran	1.892	1.872	1.997	1.910	1.769	1.872	1.755	1.867	4.46
56)	P	4-Nitrophenol		0.153	0.189	0.205	0.208	0.222	0.217	0.199	12.63
57)		2,4-Dinitrotol...	0.419	0.422	0.451	0.461	0.423	0.455	0.428	0.437	4.09
58)		Fluorene	1.504	1.530	1.563	1.546	1.440	1.513	1.444	1.506	3.17
59)		2,3,4,6-Tetrac...	0.378	0.349	0.356	0.374	0.353	0.376	0.361	0.364	3.33
60)		Diethylphthalate	1.552	1.545	1.581	1.560	1.465	1.564	1.478	1.535	2.92
61)		4-Chlorophenyl...	0.726	0.714	0.765	0.742	0.688	0.716	0.683	0.719	4.03
62)		4-Nitroaniline	0.342	0.370	0.399	0.402	0.378	0.399	0.389	0.383	5.64
63)		Azobenzene	1.426	1.396	1.444	1.442	1.364	1.442	1.376	1.413	2.40
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.095	0.113	0.121	0.116	0.123	0.120	0.115	9.04
66)	c	n-Nitrosodiphe...	0.650	0.657	0.662	0.653	0.605	0.626	0.601	0.636	4.00
67)		4-Bromophenyl-...	0.228	0.221	0.229	0.222	0.210	0.217	0.207	0.219	3.92
68)		Hexachlorobenzene	0.248	0.259	0.258	0.250	0.237	0.242	0.233	0.247	4.03
69)		Atrazine	0.190	0.190	0.187	0.186	0.167	0.166	0.156	0.177	7.85
70)	C	Pentachlorophenol		0.090	0.096	0.108	0.103	0.113	0.112	0.104	8.86
71)		Phenanthrene	1.030	1.104	1.101	1.069	1.006	1.025	0.981	1.045	4.54
72)		Anthracene	1.044	1.134	1.119	1.111	1.047	1.076	1.019	1.079	4.05
73)		Carbazole	1.002	1.050	1.057	1.031	0.989	1.017	0.964	1.016	3.28
74)		Di-n-butylphth...	1.180	1.197	1.205	1.197	1.140	1.154	1.089	1.166	3.58
75)	C	Fluoranthene	1.267	1.261	1.256	1.229	1.176	1.200	1.135	1.218	4.08
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine		0.495	0.435	0.439	0.431	0.370	0.393	0.427	10.07
78)		Pyrene	1.521	1.515	1.603	1.594	1.606	1.648	1.645	1.590	3.36
79)	S	Terphenyl-d14	1.100	1.119	1.166	1.147	1.144	1.181	1.162	1.146	2.44
80)		Butylbenzylpht...	0.604	0.602	0.646	0.653	0.652	0.666	0.636	0.637	3.87
81)		Benzo(a)anthra...	1.435	1.405	1.450	1.381	1.361	1.406	1.329	1.395	3.00
82)		3,3'-Dichlorob...	0.467	0.459	0.484	0.441	0.426	0.422	0.395	0.442	6.88
83)		Chrysene	1.353	1.335	1.428	1.347	1.315	1.302	1.262	1.335	3.85
84)		Bis(2-ethylhex...	0.778	0.736	0.800	0.788	0.793	0.787	0.735	0.774	3.52
85)	c	Di-n-octyl pht...	1.079	1.076	1.083	1.092	1.072	1.086	1.040	1.075	1.59

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF072423.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.101	1.114	1.222	1.371	1.370	1.490	1.477	1.307	12.40
88)		Benzo(b)fluora...	1.244	1.340	1.312	1.216	1.214	1.275	1.156	1.251	5.03
89)		Benzo(k)fluora...	1.229	1.240	1.329	1.284	1.158	1.216	1.158	1.230	5.07
90)	C	Benzo(a)pyrene	1.128	1.172	1.197	1.172	1.136	1.171	1.119	1.157	2.48
91)		Dibenzo(a,h)an...	0.909	0.869	0.992	1.100	1.109	1.211	1.197	1.055	12.80
92)		Benzo(g,h,i)pe...	0.878	0.887	1.045	1.125	1.152	1.255	1.243	1.083	14.30

(#) = Out of Range

Response Factor Report BNA_F

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF080123.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Aug 02 02:20:34 2023
Response Via : Initial Calibration

Calibration Files
2.5 =BF134536.D 5 =BF134537.D 10 =BF134538.D 20 =BF134539.D 40 =BF134540.D 50 =BF134541.D 60 =BF134542.D 80 =BF1345
43.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------	ISTD	----------							
2)		1,4-Dioxane		0.641	0.648	0.649	0.606	0.573	0.576	0.546	0.605	6.88
3)		Pyridine		1.765	1.756	1.759	1.627	1.547	1.536	1.492	1.640	7.24
4)		n-Nitrosodimet...		0.798	0.821	0.837	0.792	0.759	0.761	0.719	0.784	5.20
5)	S	2-Fluorophenol		1.494	1.480	1.472	1.302	1.202	1.172	1.088	1.316	12.75
6)		Aniline		2.431	2.372	2.389	2.189	2.069	2.071	1.921	2.206	8.88
7)	S	Phenol-d6		1.904	1.907	1.855	1.660	1.535	1.531	1.382	1.682	12.49
8)		2-Chlorophenol		1.482	1.455	1.482	1.331	1.227	1.215	1.098	1.327	11.49
9)		Benzaldehyde		1.196	1.107	0.999	0.805	0.726	0.667		0.917	23.50
10)	C	Phenol		1.866	1.816	1.836	1.679	1.520	1.528	1.356	1.657	11.75
11)		bis(2-Chloroet...		1.482	1.460	1.439	1.305	1.220	1.211	1.100	1.317	11.22
12)		1,3-Dichlorobe...		1.572	1.529	1.504	1.362	1.249	1.252	1.144	1.373	12.03
13)	C	1,4-Dichlorobe...		1.581	1.544	1.513	1.372	1.256	1.240	1.128	1.376	12.70
14)		1,2-Dichlorobe...		1.509	1.471	1.448	1.273	1.155	1.120	1.002	1.282	15.45
15)		Benzyl Alcohol		1.307	1.317	1.316	1.169	1.065	1.032	0.916	1.160	13.89
16)		2,2'-oxybis(1-...		2.306	2.246	2.249	2.054	1.917	1.908	1.760	2.063	10.18
17)		2-Methylphenol		1.271	1.274	1.267	1.169	1.101	1.099	1.028	1.173	8.55
18)		Hexachloroethane		0.519	0.514	0.534	0.480	0.456	0.459	0.418	0.483	8.58
19)	P	n-Nitroso-di-n...	1.139	1.113	1.108	1.075	0.978	0.908	0.897	0.838	1.007	11.54
20)		3+4-Methylphenols		1.661	1.662	1.622	1.425	1.258	1.212	1.061	1.414	17.20
21)	I	Naphthalene-d8	----------	ISTD	----------							
22)		Acetophenone		0.542	0.533	0.514	0.455	0.410	0.410	0.369	0.462	14.82
23)	S	Nitrobenzene-d5		0.258	0.304	0.343	0.341	0.331	0.339	0.324	0.320	9.53
24)		Nitrobenzene		0.299	0.346	0.374	0.364	0.346	0.359	0.331	0.346	7.26
25)		Isophorone		0.744	0.732	0.736	0.690	0.655	0.677	0.652	0.698	5.58
26)	C	2-Nitrophenol		0.065	0.086	0.116	0.138	0.143	0.155	0.155	0.122	28.81
27)		2,4-Dimethylph...		0.330	0.335	0.336	0.307	0.294	0.292	0.285	0.311	7.10
28)		bis(2-Chloroet...		0.449	0.449	0.455	0.411	0.390	0.397	0.371	0.418	8.11
29)	C	2,4-Dichloroph...		0.285	0.292	0.302	0.289	0.273	0.277	0.261	0.283	4.84
30)		1,2,4-Trichlor...		0.326	0.322	0.324	0.301	0.284	0.287	0.265	0.301	7.86
31)		Naphthalene		1.121	1.122	1.102	1.010	0.921	0.919	0.841	1.005	11.32
32)		Benzoic acid			0.097	0.145	0.177	0.199	0.219	0.221	0.176	27.31
33)		4-Chloroaniline		0.481	0.475	0.479	0.443	0.415	0.432	0.409	0.448	6.86
34)	C	Hexachlorobuta...		0.191	0.186	0.188	0.174	0.162	0.164	0.152	0.174	8.64
35)		Caprolactam		0.083	0.090	0.094	0.095	0.090	0.095	0.090	0.091	4.47
36)	C	4-Chloro-3-met...		0.307	0.311	0.323	0.302	0.286	0.293	0.275	0.299	5.41
37)		2-Methylnaphth...		0.760	0.749	0.743	0.657	0.613	0.604	0.538	0.666	12.96
38)		1-Methylnaphth...		0.703	0.683	0.684	0.618	0.564	0.571	0.514	0.620	11.74

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
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39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.644	0.652	0.630	0.585	0.526	0.542	0.492	0.582	10.82
41)	P	Hexachlorocycl...	0.247	0.271	0.296	0.306	0.288	0.289	0.283	0.283	6.79
42)	S	2,4,6-Tribromo...	0.180	0.209	0.222	0.216	0.198	0.206	0.197	0.204	6.76
43)	C	2,4,6-Trichlor...	0.367	0.386	0.409	0.391	0.370	0.385	0.357	0.381	4.59
44)		2,4,5-Trichlor...	0.430	0.457	0.464	0.451	0.410	0.428	0.405	0.435	5.28
45)	S	2-Fluorobiphenyl		1.533	1.418	1.220	1.048	1.061	0.937	1.203	19.34
46)		1,1'-Biphenyl	1.803	1.771	1.705	1.564	1.391	1.395	1.257	1.555	13.68
47)		2-Chloronaphth...	1.293	1.303	1.266	1.173	1.060	1.076	0.986	1.165	10.89
48)		2-Nitroaniline	0.172	0.245	0.327	0.362	0.354	0.380	0.371	0.316	24.66
49)		Acenaphthylene	2.038	2.049	2.008	1.845	1.671	1.689	1.522	1.832	11.43
50)		Dimethylphthalate	1.472	1.477	1.458	1.372	1.252	1.301	1.211	1.363	8.12
51)		2,6-Dinitrotol...	0.144	0.205	0.262	0.281	0.275	0.289	0.282	0.248	21.79
52)	C	Acenaphthene	1.304	1.321	1.294	1.192	1.082	1.106	1.011	1.187	10.40
53)		3-Nitroaniline	0.193	0.266	0.317	0.342	0.323	0.347	0.339	0.304	18.36
54)	P	2,4-Dinitrophenol		0.038	0.056	0.077	0.090	0.105	0.109	0.079	35.42
55)		Dibenzofuran	1.906	1.888	1.851	1.737	1.527	1.532	1.388	1.690	12.25
56)	P	4-Nitrophenol		0.195	0.244	0.259	0.257	0.273	0.263	0.248	11.17
57)		2,4-Dinitrotol...	0.148	0.222	0.298	0.341	0.339	0.361	0.334	0.292	26.82
58)		Fluorene	1.479	1.477	1.390	1.205	1.054	1.066	0.947	1.231	17.77
59)		2,3,4,6-Tetrac...	0.323	0.354	0.366	0.359	0.341	0.342	0.324	0.344	4.79
60)		Diethylphthalate	1.389	1.411	1.396	1.321	1.186	1.221	1.122	1.292	8.96
61)		4-Chlorophenyl...	0.735	0.716	0.678	0.592	0.517	0.531	0.465	0.605	17.53
62)		4-Nitroaniline	0.197	0.259	0.307	0.333	0.322	0.340	0.327	0.298	17.38
63)		Azobenzene	1.515	1.538	1.502	1.405	1.274	1.302	1.181	1.388	9.99
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.034	0.054	0.071	0.078	0.088	0.089	0.069	31.15
66)	c	n-Nitrosodiphe...	0.693	0.707	0.695	0.641	0.582	0.595	0.543	0.637	10.14
67)		4-Bromophenyl-...	0.233	0.229	0.239	0.220	0.205	0.209	0.197	0.219	7.15
68)		Hexachlorobenzene	0.240	0.249	0.251	0.235	0.215	0.221	0.207	0.231	7.39
69)		Atrazine	0.185	0.194	0.191	0.171	0.160	0.153	0.147	0.172	11.01
70)	C	Pentachlorophenol	0.112	0.133	0.155	0.156	0.147	0.154	0.146	0.143	11.08
71)		Phenanthrene	1.205	1.194	1.177	1.072	0.953	0.960	0.876	1.062	12.66
72)		Anthracene	1.225	1.217	1.209	1.094	0.978	0.987	0.887	1.085	12.64
73)		Carbazole	1.071	1.070	1.067	0.978	0.887	0.893	0.815	0.969	10.87
74)		Di-n-butylphth...	1.053	1.103	1.155	1.066	0.955	0.980	0.894	1.029	8.84
75)	C	Fluoranthene	1.238	1.235	1.243	1.154	1.031	1.032	0.922	1.122	11.41
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine	0.524	0.492	0.412	0.482	0.402	0.358	0.370	0.434	14.94
78)		Pyrene	1.617	1.671	1.726	1.747	1.733	1.824	1.797	1.731	4.08
79)	S	Terphenyl-d14	1.167	1.157	1.157	1.136	1.100	1.140	1.084	1.135	2.74
80)		Butylbenzylpht...	0.431	0.494	0.571	0.629	0.640	0.677	0.655	0.585	15.65
81)		Benzo(a)anthra...	1.457	1.472	1.482	1.451	1.371	1.425	1.352	1.430	3.52
82)		3,3'-Dichlorob...	0.417	0.438	0.438	0.417	0.400	0.409	0.383	0.415	4.77
83)		Chrysene	1.427	1.418	1.437	1.399	1.351	1.405	1.316	1.393	3.16
84)		Bis(2-ethylhex...	0.631	0.693	0.711	0.727	0.687	0.720	0.652	0.689	5.17
85)	c	Di-n-octyl pht...	0.877	0.956	1.042	1.103	1.062	1.196	1.095	1.047	9.94

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
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86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.019	1.028	1.101	1.261	1.234	1.316	1.274	1.176	10.52
88)		Benzo(b)fluora...	1.270	1.271	1.358	1.210	1.129	1.183	1.117	1.220	7.07
89)		Benzo(k)fluora...	1.224	1.326	1.296	1.287	1.165	1.146	1.063	1.215	7.84
90)	C	Benzo(a)pyrene	1.124	1.179	1.178	1.174	1.099	1.133	1.075	1.137	3.65
91)		Dibenzo(a,h)an...	0.819	0.841	0.889	1.017	1.001	1.055	1.033	0.951	10.31
92)		Benzo(g,h,i)pe...	0.801	0.826	0.897	1.042	1.042	1.091	1.088	0.970	12.88

(#) = Out of Range

Response Factor Report GC/MS Ins

Method Path : Z:\svoasrv\HPCHEM1\BNA_G\Methods\
Method File : 8270-BG072823.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri Jul 28 22:29:07 2023
Response Via : Initial Calibration

Calibration Files
2.5 =BG058510.D 5 =BG058511.D 10 =BG058512.D 20 =BG058513.D 40 =BG058514.D 50 =BG058515.D 60 =BG058516.D 80 =BG0585
17.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------	ISTD	----------							
2)		1,4-Dioxane		0.672	0.707	0.678	0.630	0.591	0.604	0.556	0.634	8.50
3)		Pyridine		1.800	1.767	1.861	1.755	1.648	1.690	1.580	1.729	5.53
4)		n-Nitrosodimet...		0.778	0.762	0.788	0.737	0.693	0.707	0.662	0.732	6.39
5)	S	2-Fluorophenol		1.394	1.389	1.419	1.318	1.230	1.250	1.159	1.309	7.52
6)		Aniline		2.285	2.268	2.387	2.318	2.168	2.190	2.076	2.242	4.64
7)	S	Phenol-d6		1.923	1.870	1.962	1.855	1.737	1.759	1.639	1.821	6.25
8)		2-Chlorophenol		1.347	1.329	1.393	1.290	1.220	1.247	1.160	1.284	6.25
9)		Benzaldehyde			1.165	1.118	0.948	0.861	0.854		0.989	14.64
10)	C	Phenol		1.838	1.857	1.912	1.818	1.691	1.730	1.606	1.779	6.03
11)		bis(2-Chloroet...		1.536	1.455	1.465	1.387	1.344	1.374	1.256	1.402	6.54
12)		1,3-Dichlorobe...		1.463	1.456	1.500	1.367	1.287	1.307	1.216	1.371	7.74
13)	C	1,4-Dichlorobe...		1.503	1.446	1.479	1.376	1.288	1.328	1.215	1.376	7.71
14)		1,2-Dichlorobe...		1.412	1.419	1.431	1.315	1.229	1.250	1.155	1.316	8.27
15)		Benzyl Alcohol		0.934	1.098	1.224	1.234	1.182	1.235	1.176	1.155	9.38
16)		2,2'-oxybis(1-...		2.403	2.394	2.421	2.272	2.178	2.198	2.077	2.278	5.85
17)		2-Methylphenol		1.349	1.379	1.373	1.313	1.238	1.261	1.189	1.300	5.58
18)		Hexachloroethane		0.544	0.523	0.528	0.500	0.474	0.484	0.450	0.500	6.68
19)	P	n-Nitroso-di-n...	1.237	1.220	1.214	1.251	1.181	1.113	1.134	1.058	1.176	5.77
20)		3+4-Methylphenols		1.733	1.744	1.898	1.830	1.721	1.752	1.635	1.759	4.77
21)	I	Naphthalene-d8	----------	ISTD	----------							
22)		Acetophenone		0.540	0.539	0.577	0.548	0.517	0.526	0.502	0.536	4.48
23)	S	Nitrobenzene-d5		0.402	0.406	0.434	0.416	0.393	0.409	0.389	0.407	3.73
24)		Nitrobenzene		0.395	0.427	0.440	0.423	0.401	0.415	0.396	0.414	4.17
25)		Isophorone		0.847	0.868	0.883	0.851	0.808	0.830	0.801	0.841	3.57
26)	C	2-Nitrophenol		0.163	0.172	0.185	0.189	0.181	0.189	0.182	0.180	5.27
27)		2,4-Dimethylph...		0.289	0.295	0.317	0.308	0.293	0.298	0.292	0.299	3.39
28)		bis(2-Chloroet...		0.433	0.467	0.485	0.475	0.446	0.462	0.436	0.458	4.34
29)	C	2,4-Dichloroph...		0.294	0.305	0.326	0.323	0.302	0.315	0.307	0.310	3.76
30)		1,2,4-Trichlor...		0.370	0.363	0.376	0.363	0.343	0.352	0.337	0.358	4.05
31)		Naphthalene		1.104	1.108	1.122	1.062	0.997	1.025	0.960	1.054	5.89
32)		Benzoic acid			0.130	0.180	0.236	0.224	0.241	0.233	0.207	21.11
33)		4-Chloroaniline		0.395	0.433	0.464	0.476	0.441	0.463	0.445	0.445	6.01
34)	C	Hexachlorobuta...		0.238	0.229	0.246	0.232	0.219	0.229	0.220	0.230	4.05
35)		Caprolactam		0.110	0.121	0.120	0.119	0.109	0.113	0.111	0.115	4.54
36)	C	4-Chloro-3-met...		0.368	0.388	0.406	0.397	0.375	0.384	0.369	0.384	3.73
37)		2-Methylnaphth...		0.793	0.777	0.796	0.766	0.717	0.733	0.696	0.754	5.17
38)		1-Methylnaphth...		0.766	0.765	0.757	0.715	0.672	0.693	0.649	0.717	6.61

Method Path : Z:\svoasrv\HPCHEM1\BNA_G\Methods\
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39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.634	0.623	0.642	0.613	0.594	0.615	0.577	0.614	3.65
41)	P	Hexachlorocycl...		0.135	0.203	0.249	0.264	0.278	0.289	0.236	24.54
42)	S	2,4,6-Tribromo...	0.326	0.344	0.346	0.334	0.313	0.326	0.306	0.328	4.51
43)	C	2,4,6-Trichlor...	0.411	0.414	0.442	0.435	0.412	0.433	0.409	0.422	3.31
44)		2,4,5-Trichlor...	0.506	0.521	0.493	0.499	0.478	0.505	0.479	0.497	3.12
45)	S	2-Fluorobiphenyl	1.469	1.429	1.449	1.313	1.240	1.279	1.163	1.335	8.76
46)		1,1'-Biphenyl	1.422	1.425	1.455	1.370	1.328	1.355	1.258	1.374	4.92
47)		2-Chloronaphth...	1.103	1.102	1.138	1.067	1.026	1.065	0.997	1.071	4.52
48)		2-Nitroaniline	0.364	0.385	0.432	0.427	0.412	0.429	0.411	0.409	6.21
49)		Acenaphthylene	1.890	1.876	1.919	1.802	1.697	1.752	1.615	1.793	6.24
50)		Dimethylphthalate	1.585	1.583	1.595	1.501	1.421	1.468	1.362	1.502	6.03
51)		2,6-Dinitrotol...	0.321	0.338	0.345	0.335	0.319	0.332	0.317	0.330	3.21
52)	C	Acenaphthene	1.096	1.077	1.108	1.030	0.981	1.018	0.942	1.036	5.94
53)		3-Nitroaniline	0.281	0.315	0.351	0.347	0.333	0.350	0.331	0.330	7.60
54)	P	2,4-Dinitrophenol		0.076	0.120	0.164	0.166	0.188	0.185	0.150	29.14
55)		Dibenzofuran	1.911	1.931	1.899	1.773	1.661	1.711	1.576	1.780	7.77
56)	P	4-Nitrophenol		0.161	0.203	0.245	0.228	0.253	0.239	0.222	15.53
57)		2,4-Dinitrotol...	0.415	0.466	0.492	0.473	0.448	0.466	0.439	0.457	5.51
58)		Fluorene	1.561	1.548	1.529	1.397	1.304	1.333	1.227	1.414	9.43
59)		2,3,4,6-Tetrac...	0.431	0.438	0.432	0.430	0.408	0.426	0.408	0.424	2.81
60)		Diethylphthalate	1.626	1.678	1.634	1.527	1.422	1.469	1.355	1.530	7.90
61)		4-Chlorophenyl...	0.850	0.834	0.833	0.782	0.744	0.762	0.714	0.788	6.55
62)		4-Nitroaniline	0.243	0.310	0.329	0.338	0.312	0.336	0.318	0.312	10.37
63)		Azobenzene	1.594	1.615	1.605	1.515	1.416	1.456	1.350	1.507	6.88
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.083	0.103	0.118	0.115	0.123	0.119	0.110	13.45
66)	c	n-Nitrosodiphe...	0.533	0.535	0.564	0.522	0.502	0.508	0.481	0.521	5.16
67)		4-Bromophenyl-...	0.230	0.230	0.236	0.227	0.220	0.228	0.217	0.227	2.76
68)		Hexachlorobenzene	0.251	0.245	0.253	0.238	0.232	0.239	0.226	0.240	4.13
69)		Atrazine	0.191	0.197	0.195	0.176	0.161	0.159	0.151	0.176	10.72
70)	C	Pentachlorophenol		0.110	0.139	0.155	0.152	0.161	0.156	0.145	13.09
71)		Phenanthrene	1.024	1.019	1.023	0.943	0.883	0.910	0.838	0.948	7.99
72)		Anthracene	1.041	1.042	1.051	0.975	0.911	0.937	0.857	0.973	7.73
73)		Carbazole	0.846	0.913	0.928	0.885	0.812	0.849	0.775	0.858	6.34
74)		Di-n-butylphth...	1.080	1.164	1.168	1.098	1.013	1.050	0.953	1.075	7.24
75)	C	Fluoranthene	1.202	1.245	1.230	1.156	1.048	1.099	0.996	1.139	8.32
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine	0.279	0.303	0.242	0.370	0.317	0.298	0.314	0.303	12.82
78)		Pyrene	1.438	1.453	1.447	1.362	1.287	1.320	1.219	1.361	6.65
79)	S	Terphenyl-d14	1.178	1.169	1.153	1.051	0.985	1.001	0.907	1.064	9.94
80)		Butylbenzylpht...	0.554	0.568	0.585	0.571	0.550	0.561	0.525	0.559	3.36
81)		Benzo(a)anthra...	1.430	1.443	1.436	1.386	1.311	1.362	1.267	1.376	4.91
82)		3,3'-Dichlorob...	0.440	0.478	0.490	0.481	0.453	0.472	0.444	0.465	4.22
83)		Chrysene	1.361	1.397	1.393	1.325	1.258	1.291	1.212	1.320	5.30
84)		Bis(2-ethylhex...	0.834	0.849	0.866	0.833	0.783	0.809	0.746	0.817	5.05
85)	c	Di-n-octyl pht...	1.450	1.466	1.501	1.467	1.393	1.443	1.335	1.436	3.85

Method Path : Z:\svoasrv\HPCHEM1\BNA_G\Methods\
Method File : 8270-BG072823.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.307	1.349	1.386	1.367	1.288	1.345	1.271	1.331	3.19
88)		Benzo(b)fluora...	1.109	1.117	1.149	1.117	1.041	1.067	0.993	1.085	4.96
89)		Benzo(k)fluora...	1.133	1.139	1.148	1.103	1.023	1.075	1.007	1.090	5.21
90)	C	Benzo(a)pyrene	1.079	1.086	1.113	1.088	1.021	1.065	1.004	1.065	3.67
91)		Dibenzo(a,h)an...	1.077	1.127	1.148	1.129	1.059	1.114	1.048	1.100	3.54
92)		Benzo(g,h,i)pe...	1.089	1.122	1.151	1.128	1.060	1.113	1.059	1.103	3.18

(#) = Out of Range

Response Factor Report gcms1

Method Path : Z:\svoasrv\HPCHEM1\BNA_M\Methods\
Method File : 8270-BM072823.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Sat Jul 29 00:19:24 2023
Response Via : Initial Calibration

Calibration Files
2.5 =BM041158.D 5 =BM041159.D 10 =BM041160.D 20 =BM041161.D 40 =BM041162.D 50 =BM041163.D 60 =BM041164.D 80 =BM0411
65.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------	ISTD	----------							
2)		1,4-Dioxane		0.598	0.607	0.601	0.572	0.543	0.562	0.524	0.572	5.54
3)		Pyridine		1.372	1.497	1.610	1.565	1.488	1.538	1.467	1.505	5.09
4)		n-Nitrosodimet...		0.696	0.712	0.741	0.705	0.665	0.695	0.658	0.696	4.05
5)	S	2-Fluorophenol		1.294	1.392	1.395	1.361	1.305	1.348	1.274	1.338	3.59
6)		Aniline		1.995	2.050	2.173	2.060	1.966	2.031	1.935	2.030	3.81
7)	S	Phenol-d6		1.706	1.763	1.842	1.752	1.678	1.751	1.651	1.735	3.65
8)		2-Chlorophenol		1.342	1.345	1.385	1.313	1.247	1.292	1.221	1.306	4.41
9)		Benzaldehyde			1.086	1.006	0.883	0.795	0.806		0.915	13.90
10)	C	Phenol		1.664	1.717	1.775	1.684	1.612	1.688	1.586	1.675	3.78
11)		bis(2-Chloroet...		1.354	1.416	1.443	1.366	1.283	1.356	1.276	1.356	4.56
12)		1,3-Dichlorobe...		1.462	1.495	1.508	1.416	1.353	1.401	1.319	1.422	4.99
13)	C	1,4-Dichlorobe...		1.487	1.501	1.500	1.418	1.363	1.409	1.327	1.429	4.85
14)		1,2-Dichlorobe...		1.444	1.444	1.440	1.363	1.301	1.342	1.259	1.370	5.47
15)		Benzyl Alcohol		1.115	1.002	1.114	1.109	1.087	1.150	1.090	1.095	4.21
16)		2,2'-oxybis(1-...		1.909	1.876	1.941	1.807	1.699	1.770	1.645	1.807	6.08
17)		2-Methylphenol		1.152	1.136	1.217	1.165	1.103	1.155	1.084	1.145	3.78
18)		Hexachloroethane		0.538	0.531	0.560	0.544	0.514	0.533	0.505	0.532	3.49
19)	P	n-Nitroso-di-n...	1.022	1.024	1.037	1.140	1.082	1.029	1.096	0.999	1.054	4.50
20)		3+4-Methylphenols		1.453	1.524	1.643	1.562	1.489	1.571	1.471	1.530	4.36
21)	I	Naphthalene-d8	----------	ISTD	----------							
22)		Acetophenone		0.511	0.513	0.545	0.539	0.521	0.547	0.531	0.530	2.80
23)	S	Nitrobenzene-d5		0.395	0.420	0.442	0.442	0.429	0.448	0.435	0.430	4.24
24)		Nitrobenzene		0.409	0.430	0.449	0.446	0.428	0.447	0.436	0.435	3.30
25)		Isophorone		0.653	0.682	0.752	0.752	0.731	0.787	0.753	0.730	6.39
26)	C	2-Nitrophenol		0.139	0.148	0.169	0.180	0.177	0.188	0.188	0.170	11.40
27)		2,4-Dimethylph...		0.271	0.290	0.309	0.309	0.298	0.308	0.308	0.299	4.82
28)		bis(2-Chloroet...		0.433	0.448	0.474	0.469	0.447	0.474	0.455	0.457	3.44
29)	C	2,4-Dichloroph...		0.262	0.285	0.312	0.313	0.303	0.322	0.313	0.302	6.97
30)		1,2,4-Trichlor...		0.324	0.328	0.338	0.336	0.328	0.343	0.338	0.333	2.09
31)		Naphthalene		1.089	1.087	1.118	1.089	1.048	1.100	1.066	1.085	2.08
32)		Benzoic acid			0.118	0.167	0.205	0.213	0.243	0.242	0.198	24.33
33)		4-Chloroaniline		0.389	0.418	0.443	0.446	0.431	0.465	0.445	0.434	5.66
34)	C	Hexachlorobuta...		0.196	0.192	0.204	0.204	0.197	0.205	0.204	0.200	2.61
35)		Caprolactam			0.071	0.082	0.089	0.088	0.100	0.093	0.087	11.31
36)	C	4-Chloro-3-met...		0.287	0.297	0.325	0.326	0.318	0.344	0.326	0.318	6.07
37)		2-Methylnaphth...		0.707	0.716	0.751	0.737	0.712	0.764	0.734	0.732	2.88
38)		1-Methylnaphth...		0.673	0.670	0.701	0.689	0.666	0.713	0.682	0.685	2.51

Method Path : Z:\svoasrv\HPCHEM1\BNA_M\Methods\
Method File : 8270-BM072823.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.611	0.637	0.663	0.661	0.644	0.660	0.670	0.649	3.16
41)	P	Hexachlorocycl...		0.266	0.320	0.361	0.357	0.362	0.396	0.344	13.11
42)	S	2,4,6-Tribromo...	0.241	0.258	0.285	0.292	0.286	0.313	0.305	0.283	8.96
43)	C	2,4,6-Trichlor...	0.353	0.390	0.425	0.434	0.421	0.444	0.447	0.416	8.15
44)		2,4,5-Trichlor...	0.414	0.455	0.490	0.497	0.489	0.514	0.514	0.482	7.43
45)	S	2-Fluorobiphenyl	1.537	1.543	1.618	1.622	1.552	1.614	1.597	1.583	2.39
46)		1,1'-Biphenyl	1.568	1.603	1.667	1.648	1.585	1.649	1.629	1.621	2.26
47)		2-Chloronaphth...	1.172	1.200	1.240	1.230	1.182	1.225	1.226	1.211	2.17
48)		2-Nitroaniline	0.296	0.330	0.387	0.415	0.406	0.439	0.431	0.386	13.83
49)		Acenaphthylene	1.783	1.890	2.017	2.018	1.930	2.037	2.003	1.954	4.74
50)		Dimethylphthalate	1.429	1.464	1.532	1.524	1.477	1.588	1.518	1.504	3.48
51)		2,6-Dinitrotol...	0.261	0.289	0.318	0.325	0.317	0.342	0.330	0.312	8.87
52)	C	Acenaphthene	1.139	1.153	1.204	1.193	1.153	1.210	1.188	1.177	2.41
53)		3-Nitroaniline	0.231	0.276	0.332	0.354	0.346	0.377	0.368	0.326	16.40
54)	P	2,4-Dinitrophenol		0.118	0.163	0.187	0.189	0.213	0.212	0.180	19.75
55)		Dibenzofuran	1.880	1.907	1.969	1.936	1.865	1.974	1.915	1.921	2.16
56)	P	4-Nitrophenol		0.191	0.246	0.269	0.266	0.297	0.289	0.260	14.63
57)		2,4-Dinitrotol...	0.283	0.341	0.408	0.430	0.427	0.471	0.454	0.402	16.61
58)		Fluorene	1.449	1.458	1.548	1.533	1.487	1.590	1.540	1.515	3.41
59)		2,3,4,6-Tetrac...	0.355	0.367	0.398	0.397	0.390	0.418	0.405	0.390	5.55
60)		Diethylphthalate	1.349	1.387	1.463	1.480	1.444	1.578	1.483	1.455	5.07
61)		4-Chlorophenyl...	0.694	0.721	0.766	0.775	0.753	0.818	0.789	0.759	5.48
62)		4-Nitroaniline	0.166	0.215	0.273	0.313	0.322	0.353	0.346	0.284	24.77
63)		Azobenzene	1.364	1.505	1.650	1.666	1.610	1.722	1.639	1.594	7.60
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.089	0.114	0.127	0.126	0.136	0.135	0.121	14.65
66)	c	n-Nitrosodiphe...	0.578	0.606	0.636	0.644	0.614	0.643	0.634	0.622	3.87
67)		4-Bromophenyl-...	0.200	0.209	0.222	0.225	0.220	0.231	0.228	0.219	5.08
68)		Hexachlorobenzene	0.234	0.238	0.246	0.247	0.239	0.253	0.250	0.244	2.83
69)		Atrazine	0.151	0.164	0.171	0.169	0.164	0.163	0.161	0.163	4.09
70)	C	Pentachlorophenol	0.132	0.150	0.168	0.180	0.176	0.190	0.187	0.169	12.55
71)		Phenanthrene	1.081	1.102	1.122	1.126	1.083	1.145	1.119	1.111	2.14
72)		Anthracene	0.981	1.047	1.115	1.142	1.092	1.168	1.148	1.099	5.99
73)		Carbazole	0.870	0.952	1.005	1.039	1.001	1.061	1.035	0.995	6.54
74)		Di-n-butylphth...	0.892	0.992	1.099	1.196	1.180	1.297	1.212	1.124	12.48
75)	C	Fluoranthene	1.111	1.191	1.239	1.285	1.253	1.348	1.311	1.248	6.34
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine	0.214	0.253	0.243	0.331	0.287	0.285	0.294	0.273	14.14
78)		Pyrene	1.339	1.317	1.445	1.432	1.388	1.458	1.411	1.399	3.82
79)	S	Terphenyl-d14	1.023	1.028	1.125	1.146	1.120	1.187	1.115	1.106	5.44
80)		Butylbenzylpht...	0.385	0.432	0.504	0.550	0.550	0.593	0.562	0.511	14.84
81)		Benzo(a)anthra...	1.253	1.301	1.389	1.390	1.351	1.420	1.386	1.356	4.35
82)		3,3'-Dichlorob...	0.350	0.407	0.448	0.476	0.458	0.488	0.470	0.442	10.92
83)		Chrysene	1.269	1.286	1.339	1.322	1.282	1.365	1.318	1.311	2.64
84)		Bis(2-ethylhex...	0.511	0.613	0.712	0.794	0.798	0.872	0.810	0.730	17.46
85)	c	Di-n-octyl pht...		1.040	1.185	1.335	1.340	1.475	1.370	1.291	11.95

Method Path : Z:\svoasrv\HPCHEM1\BNA_M\Methods\
Method File : 8270-BM072823.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.322	1.387	1.477	1.519	1.482	1.559	1.546	1.470	5.89
88)		Benzo(b)fluora...	1.097	1.138	1.180	1.211	1.192	1.268	1.231	1.188	4.81
89)		Benzo(k)fluora...	1.096	1.139	1.243	1.291	1.211	1.272	1.255	1.215	5.94
90)	C	Benzo(a)pyrene	1.014	1.059	1.149	1.189	1.164	1.215	1.202	1.142	6.69
91)		Dibenzo(a,h)an...	1.081	1.153	1.221	1.266	1.245	1.312	1.308	1.226	6.85
92)		Benzo(g,h,i)pe...	1.126	1.161	1.219	1.234	1.187	1.247	1.227	1.200	3.67

(#) = Out of Range

Response Factor Report MSBNA_P

Method Path : Z:\svoasrv\HPCHEM1\BNA_P\Methods\
Method File : 8270E-BP072723.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri Jul 28 01:48:25 2023
Response Via : Initial Calibration

Calibration Files
2.5 =BP016393.D 5 =BP016394.D 10 =BP016395.D 20 =BP016396.D 40 =BP016397.D 50 =BP016398.D 60 =BP016399.D 80 =BP016400.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	ISTD									
2)		1,4-Dioxane		0.517	0.525	0.536	0.459	0.431	0.449	0.430	0.478	9.69
3)		Pyridine		1.511	1.512	1.564	1.407	1.327	1.381	1.304	1.429	7.04
4)		n-Nitrosodimet...		0.577	0.594	0.598	0.524	0.490	0.511	0.478	0.539	9.32
5)	S	2-Fluorophenol		1.268	1.295	1.337	1.221	1.146	1.195	1.119	1.226	6.47
6)		Aniline		2.144	2.213	2.245	2.091	1.964	2.003	1.869	2.076	6.60
7)	S	Phenol-d6		1.726	1.792	1.834	1.690	1.584	1.638	1.498	1.680	6.99
8)		2-Chlorophenol		1.320	1.344	1.383	1.307	1.217	1.258	1.169	1.285	5.84
9)		Benzaldehyde		1.166	1.128	1.019	0.800	0.697	0.673	0.581	0.866	27.22
10)	C	Phenol		1.696	1.757	1.780	1.633	1.527	1.575	1.455	1.632	7.39
11)		bis(2-Chloroet...		1.436	1.442	1.431	1.318	1.231	1.267	1.161	1.326	8.51
12)		1,3-Dichlorobe...		1.467	1.464	1.473	1.375	1.294	1.337	1.247	1.380	6.63
13)	C	1,4-Dichlorobe...		1.493	1.481	1.496	1.395	1.315	1.357	1.261	1.400	6.70
14)		1,2-Dichlorobe...		1.438	1.433	1.442	1.355	1.267	1.303	1.196	1.348	7.16
15)		Benzyl Alcohol		1.148	1.212	1.224	1.170	1.097	1.145	1.040	1.148	5.57
16)		2,2'-oxybis(1-...		1.687	1.699	1.655	1.477	1.367	1.387	1.260	1.504	11.74
17)		2-Methylphenol		1.202	1.249	1.263	1.193	1.114	1.153	1.058	1.176	6.22
18)		Hexachloroethane		0.530	0.539	0.540	0.496	0.462	0.482	0.447	0.499	7.58
19)	P	n-Nitroso-di-n...	1.120	1.114	1.153	1.132	1.056	0.970	0.988	0.889	1.053	8.96
20)		3+4-Methylphenols		1.604	1.672	1.697	1.631	1.533	1.586	1.458	1.597	5.13
21)	I	Naphthalene-d8	ISTD									
22)		Acetophenone		0.521	0.526	0.539	0.506	0.478	0.495	0.470	0.505	5.09
23)	S	Nitrobenzene-d5		0.345	0.365	0.386	0.362	0.345	0.358	0.341	0.357	4.32
24)		Nitrobenzene		0.366	0.376	0.393	0.368	0.351	0.366	0.348	0.367	4.13
25)		Isophorone		0.717	0.744	0.762	0.731	0.691	0.720	0.685	0.721	3.79
26)	C	2-Nitrophenol		0.103	0.114	0.138	0.153	0.155	0.164	0.163	0.141	17.23
27)		2,4-Dimethylph...		0.318	0.328	0.343	0.327	0.313	0.318	0.313	0.323	3.31
28)		bis(2-Chloroet...		0.459	0.459	0.467	0.443	0.419	0.434	0.412	0.442	4.79
29)	C	2,4-Dichloroph...		0.269	0.280	0.307	0.318	0.307	0.322	0.311	0.302	6.61
30)		1,2,4-Trichlor...		0.318	0.320	0.330	0.337	0.322	0.339	0.324	0.327	2.56
31)		Naphthalene		1.079	1.074	1.100	1.052	0.999	1.037	0.982	1.046	4.14
32)		Benzoic acid			0.128	0.168	0.197	0.202	0.220	0.229	0.191	19.57
33)		4-Chloroaniline		0.463	0.470	0.493	0.481	0.458	0.477	0.461	0.472	2.70
34)	C	Hexachlorobuta...		0.185	0.181	0.189	0.204	0.197	0.204	0.197	0.194	4.78
35)		Caprolactam		0.096	0.107	0.115	0.114	0.110	0.117	0.114	0.110	6.58
36)	C	4-Chloro-3-met...		0.313	0.329	0.352	0.346	0.330	0.347	0.332	0.336	4.12
37)		2-Methylnaphth...		0.768	0.773	0.781	0.776	0.735	0.763	0.723	0.760	2.91
38)		1-Methylnaphth...		0.724	0.725	0.734	0.726	0.691	0.714	0.673	0.713	3.11

Method Path : Z:\svoasrv\HPCHEM1\BNA_P\Methods\
Method File : 8270E-BP072723.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.578	0.586	0.604	0.631	0.606	0.639	0.610	0.608	3.66
41)	P	Hexachlorocycl...	0.248	0.264	0.291	0.333	0.330	0.334	0.337	0.305	12.22
42)	S	2,4,6-Tribromo...		0.232	0.256	0.318	0.307	0.330	0.323	0.294	13.74
43)	C	2,4,6-Trichlor...	0.324	0.350	0.394	0.417	0.404	0.427	0.413	0.390	9.85
44)		2,4,5-Trichlor...	0.403	0.434	0.476	0.501	0.489	0.514	0.495	0.473	8.44
45)	S	2-Fluorobiphenyl	1.465	1.474	1.485	1.418	1.317	1.361	1.245	1.395	6.51
46)		1,1'-Biphenyl	1.562	1.576	1.606	1.538	1.449	1.513	1.428	1.525	4.32
47)		2-Chloronaphth...	1.165	1.177	1.208	1.165	1.095	1.147	1.094	1.150	3.68
48)		2-Nitroaniline	0.275	0.302	0.350	0.338	0.324	0.344	0.337	0.324	8.31
49)		Acenaphthylene	1.880	1.956	2.038	1.935	1.825	1.914	1.810	1.908	4.13
50)		Dimethylphthalate	1.574	1.599	1.622	1.567	1.495	1.563	1.489	1.559	3.19
51)		2,6-Dinitrotol...	0.267	0.301	0.331	0.335	0.322	0.345	0.334	0.319	8.48
52)	C	Acenaphthene	1.136	1.167	1.192	1.151	1.082	1.136	1.080	1.135	3.67
53)		3-Nitroaniline	0.305	0.339	0.378	0.374	0.362	0.389	0.379	0.361	8.18
54)	P	2,4-Dinitrophenol		0.079	0.098	0.122	0.130	0.145	0.155	0.121	23.36
55)		Dibenzofuran	1.899	1.912	1.956	1.877	1.771	1.859	1.754	1.861	3.98
56)	P	4-Nitrophenol	0.215	0.261	0.298	0.296	0.288	0.312	0.308	0.283	12.12
57)		2,4-Dinitrotol...	0.305	0.363	0.430	0.450	0.435	0.468	0.462	0.416	14.45
58)		Fluorene	1.497	1.526	1.561	1.494	1.381	1.444	1.334	1.462	5.55
59)		2,3,4,6-Tetrac...	0.327	0.351	0.377	0.417	0.406	0.424	0.422	0.389	9.84
60)		Diethylphthalate	1.552	1.585	1.637	1.564	1.470	1.550	1.484	1.549	3.71
61)		4-Chlorophenyl...	0.734	0.742	0.761	0.765	0.721	0.749	0.693	0.738	3.36
62)		4-Nitroaniline	0.287	0.338	0.383	0.375	0.358	0.387	0.380	0.358	10.02
63)		Azobenzene	1.525	1.576	1.635	1.436	1.336	1.396	1.336	1.462	8.07
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.056	0.072	0.087	0.091	0.098	0.100	0.084	20.44
66)	c	n-Nitrosodiphe...	0.605	0.604	0.630	0.597	0.563	0.584	0.544	0.589	4.88
67)		4-Bromophenyl-...	0.199	0.196	0.208	0.224	0.215	0.224	0.216	0.212	5.37
68)		Hexachlorobenzene	0.224	0.220	0.226	0.250	0.241	0.251	0.240	0.236	5.39
69)		Atrazine	0.172	0.179	0.189	0.181	0.173	0.168	0.164	0.175	4.74
70)	C	Pentachlorophenol		0.129	0.150	0.172	0.171	0.182	0.177	0.163	12.36
71)		Phenanthrene	1.110	1.108	1.125	1.068	1.004	1.040	0.979	1.062	5.32
72)		Anthracene	1.071	1.091	1.138	1.088	1.027	1.067	0.994	1.068	4.38
73)		Carbazole	1.007	1.037	1.080	1.010	0.951	0.992	0.932	1.001	5.01
74)		Di-n-butylphth...	1.098	1.165	1.277	1.199	1.132	1.174	1.063	1.158	6.05
75)	C	Fluoranthene	1.191	1.241	1.310	1.288	1.222	1.273	1.187	1.245	3.84
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine	0.407	0.409	0.292	0.381	0.316	0.299	0.323	0.347	14.61
78)		Pyrene	1.380	1.383	1.451	1.363	1.291	1.304	1.213	1.341	5.79
79)	S	Terphenyl-d14	1.054	1.046	1.071	0.997	0.888	0.866	0.705	0.947	14.17
80)		Butylbenzylpht...	0.462	0.504	0.583	0.544	0.527	0.543	0.524	0.527	7.12
81)		Benzo(a)anthra...	1.346	1.379	1.413	1.368	1.297	1.334	1.257	1.342	3.91
82)		3,3'-Dichlorob...	0.387	0.420	0.439	0.470	0.451	0.465	0.452	0.441	6.57
83)		Chrysene	1.319	1.332	1.364	1.296	1.220	1.265	1.176	1.281	5.15
84)		Bis(2-ethylhex...	0.712	0.789	0.880	0.811	0.779	0.806	0.759	0.791	6.53
85)	c	Di-n-octyl pht...	1.158	1.309	1.466	1.361	1.317	1.387	1.311	1.330	7.09

Response Factor Report MSBNA_P

Method Path : Z:\svoasrv\HPCHEM1\BNA_P\Methods\
Method File : 8270E-BP072723.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.247	1.341	1.398	1.350	1.305	1.437	1.360	1.348	4.56
88)		Benzo(b)fluora...	1.126	1.123	1.209	1.215	1.160	1.174	1.108	1.159	3.67
89)		Benzo(k)fluora...	1.139	1.193	1.246	1.222	1.145	1.188	1.121	1.179	3.91
90)	C	Benzo(a)pyrene	1.063	1.096	1.168	1.167	1.111	1.155	1.101	1.123	3.64
91)		Dibenzo(a,h)an...	1.037	1.129	1.170	1.135	1.086	1.193	1.121	1.124	4.58
92)		Benzo(g,h,i)pe...	1.006	1.094	1.131	1.074	1.033	1.153	1.095	1.084	4.77

(#) = Out of Range

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM Case No.: O3645 SAS No.: O3645 SDG No.: O3645

Instrument ID: BNA_F Calibration Date/Time: 07/19/2023 13:01

Lab File ID: BF134355.D Init. Calib. Date(s): 06/26/2023 06/26/2023

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 15:19 19:21

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.196	1.187		-0.8	
Benzaldehyde	0.886	0.819		-7.6	
Phenol-d6	1.470	1.450		-1.4	
Phenol	1.546	1.519		-1.7	20.0
bis(2-Chloroethyl)ether	1.138	1.085		-4.7	
2-Chlorophenol	1.214	1.220		0.5	
2-Methylphenol	1.087	1.057		-2.8	
2,2-oxybis(1-Chloropropane)	2.014	1.599		-20.6	
Acetophenone	0.455	0.488		7.3	
3+4-Methylphenols	1.319	1.374		4.2	
n-Nitroso-di-n-propylamine	0.932	0.921	0.050	-1.2	
Nitrobenzene-d5	0.371	0.397		7.0	
Hexachloroethane	0.485	0.503		3.7	
Nitrobenzene	0.375	0.383		2.1	
Isophorone	0.674	0.673		-0.1	
2-Nitrophenol	0.180	0.188		4.4	20.0
2,4-Dimethylphenol	0.285	0.286		0.4	
bis(2-Chloroethoxy)methane	0.390	0.378		-3.1	
2,4-Dichlorophenol	0.282	0.287		1.8	20.0
Naphthalene	0.966	0.982		1.7	
4-Chloroaniline	0.413	0.420		1.7	
Hexachlorobutadiene	0.184	0.210		14.1	20.0
Caprolactam	0.093	0.086		-7.5	
4-Chloro-3-methylphenol	0.317	0.331		4.4	20.0
2-Methylnaphthalene	0.683	0.698		2.2	
Hexachlorocyclopentadiene	0.281	0.306	0.050	8.9	
2,4,6-Trichlorophenol	0.403	0.404		0.2	20.0
2-Fluorobiphenyl	1.376	1.487		8.1	
2,4,5-Trichlorophenol	0.474	0.470		-0.8	
1,1-Biphenyl	1.604	1.636		2.0	
2-Chloronaphthalene	1.174	1.179		0.4	
2-Nitroaniline	0.428	0.427		-0.2	
Dimethylphthalate	1.452	1.461		0.6	
Acenaphthylene	2.005	1.994		-0.5	
2,6-Dinitrotoluene	0.313	0.320		2.2	
3-Nitroaniline	0.375	0.356		-5.1	
Acenaphthene	1.164	1.184		1.7	20.0
2,4-Dinitrophenol	0.162	0.173	0.050	6.8	
4-Nitrophenol	0.262	0.212	0.050	-19.1	
Dibenzofuran	1.818	1.814		-0.2	
2,4-Dinitrotoluene	0.413	0.427		3.4	

Form VII SV-1

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM Case No.: O3645 SAS No.: O3645 SDG No.: O3645

Instrument ID: BNA_F Calibration Date/Time: 07/19/2023 13:01

Lab File ID: BF134355.D Init. Calib. Date(s): 06/26/2023 06/26/2023

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 15:19 19:21

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Diethylphthalate	1.513	1.539		1.7	
4-Chlorophenyl-phenylether	0.682	0.714		4.7	
Fluorene	1.415	1.449		2.4	
4-Nitroaniline	0.378	0.363		-4.0	
4,6-Dinitro-2-methylphenol	0.109	0.119		9.2	
n-Nitrosodiphenylamine	0.639	0.641		0.3	20.0
2,4,6-Tribromophenol	0.251	0.288		14.7	
4-Bromophenyl-phenylether	0.213	0.228		7.0	
Hexachlorobenzene	0.226	0.243		7.5	
Atrazine	0.177	0.181		2.3	
Pentachlorophenol	0.135	0.114		-15.6	20.0
Phenanthrene	1.007	1.017		1.0	
Anthracene	1.047	1.055		0.8	
Carbazole	0.959	0.965		0.6	
Di-n-butylphthalate	1.140	1.193		4.6	
Fluoranthene	1.088	1.140		4.8	20.0
Pyrene	1.861	1.720		-7.6	
Terphenyl-d14	1.243	1.199		-3.5	
Butylbenzylphthalate	0.698	0.688		-1.4	
3,3-Dichlorobenzidine	0.439	0.437		-0.5	
Benzo(a)anthracene	1.387	1.378		-0.6	
Chrysene	1.343	1.309		-2.5	
Bis(2-ethylhexyl)phthalate	0.802	0.876		9.2	
Di-n-octyl phthalate	1.179	1.282		8.7	20.0
Benzo(b)fluoranthene	1.176	1.226		4.3	
Benzo(k)fluoranthene	1.197	1.181		-1.3	
Benzo(a)pyrene	1.137	1.125		-1.1	20.0
Indeno(1,2,3-cd)pyrene	1.388	1.313		-5.4	
Dibenzo(a,h)anthracene	1.134	1.079		-4.8	
Benzo(g,h,i)perylene	1.169	1.060		-9.3	
1,2,4,5-Tetrachlorobenzene	0.593	0.631		6.4	
1,4-Dioxane	0.493	0.511		3.7	20.0
2,3,4,6-Tetrachlorophenol	0.374	0.367		-1.9	

All other compounds must meet a minimum RRF of 0.010.

Form VII SV-1

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM Case No.: O3645 SAS No.: O3645 SDG No.: O3645

Instrument ID: BNA_F Calibration Date/Time: 07/28/2023 16:29

Lab File ID: BF134518.D Init. Calib. Date(s): 07/24/2023 07/24/2023

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 13:46 17:44

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.211	1.173		-3.1	
Benzaldehyde	0.794	0.729		-8.2	
Phenol-d6	1.483	1.415		-4.6	
Phenol	1.543	1.479		-4.1	20.0
bis(2-Chloroethyl)ether	1.077	1.099		2.0	
2-Chlorophenol	1.226	1.159		-5.5	
2-Methylphenol	1.094	1.036		-5.3	
2,2-oxybis(1-Chloropropane)	1.586	1.740		9.7	
Acetophenone	0.497	0.444		-10.7	
3+4-Methylphenols	1.400	1.315		-6.1	
n-Nitroso-di-n-propylamine	0.923	0.934	0.050	1.2	
Nitrobenzene-d5	0.395	0.352		-10.9	
Hexachloroethane	0.521	0.471		-9.6	
Nitrobenzene	0.393	0.357		-9.2	
Isophorone	0.659	0.653		-0.9	
2-Nitrophenol	0.181	0.174		-3.9	20.0
2,4-Dimethylphenol	0.285	0.269		-5.6	
bis(2-Chloroethoxy)methane	0.367	0.368		0.3	
2,4-Dichlorophenol	0.285	0.268		-6.0	20.0
Naphthalene	0.995	0.914		-8.1	
4-Chloroaniline	0.411	0.396		-3.7	
Hexachlorobutadiene	0.206	0.180		-12.6	20.0
Caprolactam	0.087	0.092		5.7	
4-Chloro-3-methylphenol	0.329	0.315		-4.3	20.0
2-Methylnaphthalene	0.692	0.656		-5.2	
Hexachlorocyclopentadiene	0.152	0.159	0.050	4.6	
2,4,6-Trichlorophenol	0.407	0.369		-9.3	20.0
2-Fluorobiphenyl	1.523	1.311		-14.0	
2,4,5-Trichlorophenol	0.474	0.424		-10.5	
1,1-Biphenyl	1.648	1.449		-12.1	
2-Chloronaphthalene	1.215	1.061		-12.7	
2-Nitroaniline	0.438	0.391		-10.7	
Dimethylphthalate	1.483	1.367		-7.8	
Acenaphthylene	2.053	1.793		-12.7	
2,6-Dinitrotoluene	0.325	0.300		-7.7	
3-Nitroaniline	0.373	0.344		-7.8	
Acenaphthene	1.213	1.072		-11.6	20.0
2,4-Dinitrophenol	0.143	0.135	0.050	-5.6	
4-Nitrophenol	0.199	0.196	0.050	-1.5	
Dibenzofuran	1.867	1.651		-11.6	
2,4-Dinitrotoluene	0.437	0.392		-10.3	

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM Case No.: O3645 SAS No.: O3645 SDG No.: O3645

Instrument ID: BNA_F Calibration Date/Time: 07/28/2023 16:29

Lab File ID: BF134518.D Init. Calib. Date(s): 07/24/2023 07/24/2023

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 13:46 17:44

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Diethylphthalate	1.535	1.478		-3.7	
4-Chlorophenyl-phenylether	0.719	0.666		-7.4	
Fluorene	1.506	1.366		-9.3	
4-Nitroaniline	0.383	0.327		-14.6	
4,6-Dinitro-2-methylphenol	0.115	0.108		-6.1	
n-Nitrosodiphenylamine	0.636	0.579		-9.0	20.0
2,4,6-Tribromophenol	0.284	0.259		-8.8	
4-Bromophenyl-phenylether	0.219	0.203		-7.3	
Hexachlorobenzene	0.247	0.222		-10.1	
Atrazine	0.177	0.164		-7.3	
Pentachlorophenol	0.104	0.105		1.0	20.0
Phenanthrene	1.045	0.915		-12.4	
Anthracene	1.079	0.945		-12.4	
Carbazole	1.016	0.881		-13.3	
Di-n-butylphthalate	1.166	1.125		-3.5	
Fluoranthene	1.218	1.018		-16.4	20.0
Pyrene	1.590	1.553		-2.3	
Terphenyl-d14	1.146	1.106		-3.5	
Butylbenzylphthalate	0.637	0.659		3.5	
3,3-Dichlorobenzidine	0.442	0.368		-16.7	
Benzo(a)anthracene	1.395	1.232		-11.7	
Chrysene	1.335	1.187		-11.1	
Bis(2-ethylhexyl)phthalate	0.774	0.863		11.5	
Di-n-octyl phthalate	1.075	1.220		13.5	20.0
Benzo(b)fluoranthene	1.251	1.180		-5.7	
Benzo(k)fluoranthene	1.230	1.121		-8.9	
Benzo(a)pyrene	1.157	1.032		-10.8	20.0
Indeno(1,2,3-cd)pyrene	1.307	1.156		-11.6	
Dibenzo(a,h)anthracene	1.055	0.957		-9.3	
Benzo(g,h,i)perylene	1.083	0.966		-10.8	
1,2,4,5-Tetrachlorobenzene	0.634	0.552		-12.9	
1,4-Dioxane	0.513	0.415		-19.1	20.0
2,3,4,6-Tetrachlorophenol	0.364	0.351		-3.6	

All other compounds must meet a minimum RRF of 0.010.

Form VII SV-1

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM Case No.: O3645 SAS No.: O3645 SDG No.: O3645

Instrument ID: BNA_F Calibration Date/Time: 08/01/2023 14:27

Lab File ID: BF134547.D Init. Calib. Date(s): 08/01/2023 08/01/2023

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 07:51 11:47

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.316	1.223		-7.1	
Benzaldehyde	0.917	0.752		-18.0	
Phenol-d6	1.682	1.592		-5.4	
Phenol	1.657	1.566		-5.5	20.0
bis(2-Chloroethyl)ether	1.317	1.262		-4.2	
2-Chlorophenol	1.327	1.292		-2.6	
2-Methylphenol	1.173	1.131		-3.6	
2,2-oxybis(1-Chloropropane)	2.063	1.983		-3.9	
Acetophenone	0.462	0.421		-8.9	
3+4-Methylphenols	1.414	1.345		-4.9	
n-Nitroso-di-n-propylamine	1.007	0.939	0.050	-6.8	
Nitrobenzene-d5	0.320	0.333		4.1	
Hexachloroethane	0.483	0.477		-1.2	
Nitrobenzene	0.346	0.350		1.2	
Isophorone	0.698	0.655		-6.2	
2-Nitrophenol	0.122	0.147		20.5	20.0
2,4-Dimethylphenol	0.311	0.295		-5.1	
bis(2-Chloroethoxy)methane	0.418	0.397		-5.0	
2,4-Dichlorophenol	0.283	0.270		-4.6	20.0
Naphthalene	1.005	0.928		-7.7	
4-Chloroaniline	0.448	0.409		-8.7	
Hexachlorobutadiene	0.174	0.165		-5.2	20.0
Caprolactam	0.091	0.087		-4.4	
4-Chloro-3-methylphenol	0.299	0.284		-5.0	20.0
2-Methylnaphthalene	0.666	0.621		-6.8	
Hexachlorocyclopentadiene	0.283	0.291	0.050	2.8	
2,4,6-Trichlorophenol	0.381	0.373		-2.1	20.0
2-Fluorobiphenyl	1.203	1.132		-5.9	
2,4,5-Trichlorophenol	0.435	0.430		-1.1	
1,1-Biphenyl	1.555	1.466		-5.7	
2-Chloronaphthalene	1.165	1.093		-6.2	
2-Nitroaniline	0.316	0.362		14.6	
Dimethylphthalate	1.363	1.295		-5.0	
Acenaphthylene	1.832	1.718		-6.2	
2,6-Dinitrotoluene	0.248	0.279		12.5	
3-Nitroaniline	0.304	0.331		8.9	
Acenaphthene	1.187	1.129		-4.9	20.0
2,4-Dinitrophenol	0.079	0.089	0.050	12.7	
4-Nitrophenol	0.248	0.250	0.050	0.8	
Dibenzofuran	1.690	1.581		-6.4	
2,4-Dinitrotoluene	0.292	0.345		18.2	

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM Case No.: O3645 SAS No.: O3645 SDG No.: O3645

Instrument ID: BNA_F Calibration Date/Time: 08/01/2023 14:27

Lab File ID: BF134547.D Init. Calib. Date(s): 08/01/2023 08/01/2023

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 07:51 11:47

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Diethylphthalate	1.292	1.240		-4.0	
4-Chlorophenyl-phenylether	0.605	0.560		-7.4	
Fluorene	1.231	1.118		-9.2	
4-Nitroaniline	0.298	0.315		5.7	
4,6-Dinitro-2-methylphenol	0.069	0.076		10.1	
n-Nitrosodiphenylamine	0.637	0.604		-5.2	20.0
2,4,6-Tribromophenol	0.204	0.206		1.0	
4-Bromophenyl-phenylether	0.219	0.210		-4.1	
Hexachlorobenzene	0.231	0.219		-5.2	
Atrazine	0.172	0.170		-1.2	
Pentachlorophenol	0.143	0.152		6.3	20.0
Phenanthrene	1.062	0.995		-6.3	
Anthracene	1.085	1.004		-7.5	
Carbazole	0.969	0.896		-7.5	
Di-n-butylphthalate	1.029	1.012		-1.7	
Fluoranthene	1.122	1.038		-7.5	20.0
Pyrene	1.731	1.672		-3.4	
Terphenyl-d14	1.135	1.091		-3.9	
Butylbenzylphthalate	0.585	0.625		6.8	
3,3-Dichlorobenzidine	0.415	0.407		-1.9	
Benzo(a)anthracene	1.430	1.385		-3.1	
Chrysene	1.393	1.339		-3.9	
Bis(2-ethylhexyl)phthalate	0.689	0.716		3.9	
Di-n-octyl phthalate	1.047	1.095		4.6	20.0
Benzo(b)fluoranthene	1.220	1.171		-4.0	
Benzo(k)fluoranthene	1.215	1.195		-1.6	
Benzo(a)pyrene	1.137	1.101		-3.2	20.0
Indeno(1,2,3-cd)pyrene	1.176	1.164		-1.0	
Dibenzo(a,h)anthracene	0.951	0.962		1.2	
Benzo(g,h,i)perylene	0.970	0.963		-0.7	
1,2,4,5-Tetrachlorobenzene	0.582	0.543		-6.7	
1,4-Dioxane	0.605	0.560		-7.4	20.0
2,3,4,6-Tetrachlorophenol	0.344	0.338		-1.7	

All other compounds must meet a minimum RRF of 0.010.

Form VII SV-1

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM Case No.: O3645 SAS No.: O3645 SDG No.: O3645

Instrument ID: BNA_G Calibration Date/Time: 08/02/2023 08:34

Lab File ID: BG058569.D Init. Calib. Date(s): 07/28/2023 07/28/2023

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 09:21 14:09

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.309	1.312		0.2	
Benzaldehyde	0.989	0.906		-8.4	
Phenol-d6	1.821	1.850		1.6	
Phenol	1.779	1.803		1.3	20.0
bis(2-Chloroethyl)ether	1.402	1.449		3.4	
2-Chlorophenol	1.284	1.306		1.7	
2-Methylphenol	1.300	1.303		0.2	
2,2-oxybis(1-Chloropropane)	2.278	2.289		0.5	
Acetophenone	0.536	0.527		-1.7	
3+4-Methylphenols	1.759	1.842		4.7	
n-Nitroso-di-n-propylamine	1.176	1.200	0.050	2.0	
Nitrobenzene-d5	0.407	0.396		-2.7	
Hexachloroethane	0.500	0.492		-1.6	
Nitrobenzene	0.414	0.399		-3.6	
Isophorone	0.841	0.816		-3.0	
2-Nitrophenol	0.180	0.173		-3.9	20.0
2,4-Dimethylphenol	0.299	0.296		-1.0	
bis(2-Chloroethoxy)methane	0.458	0.449		-2.0	
2,4-Dichlorophenol	0.310	0.301		-2.9	20.0
Naphthalene	1.054	1.016		-3.6	
4-Chloroaniline	0.445	0.453		1.8	
Hexachlorobutadiene	0.230	0.216		-6.1	20.0
Caprolactam	0.115	0.125		8.7	
4-Chloro-3-methylphenol	0.384	0.371		-3.4	20.0
2-Methylnaphthalene	0.754	0.721		-4.4	
Hexachlorocyclopentadiene	0.236	0.213	0.050	-9.7	
2,4,6-Trichlorophenol	0.422	0.402		-4.7	20.0
2-Fluorobiphenyl	1.335	1.270		-4.9	
2,4,5-Trichlorophenol	0.497	0.470		-5.4	
1,1-Biphenyl	1.374	1.304		-5.1	
2-Chloronaphthalene	1.071	1.014		-5.3	
2-Nitroaniline	0.409	0.407		-0.5	
Dimethylphthalate	1.502	1.489		-0.9	
Acenaphthylene	1.793	1.719		-4.1	
2,6-Dinitrotoluene	0.330	0.326		-1.2	
3-Nitroaniline	0.330	0.355		7.6	
Acenaphthene	1.036	0.997		-3.8	20.0
2,4-Dinitrophenol	0.150	0.171	0.050	14.0	
4-Nitrophenol	0.222	0.260	0.050	17.1	
Dibenzofuran	1.780	1.720		-3.4	
2,4-Dinitrotoluene	0.457	0.484		5.9	

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM Case No.: O3645 SAS No.: O3645 SDG No.: O3645

Instrument ID: BNA_G Calibration Date/Time: 08/02/2023 08:34

Lab File ID: BG058569.D Init. Calib. Date(s): 07/28/2023 07/28/2023

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 09:21 14:09

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Diethylphthalate	1.530	1.606		5.0	
4-Chlorophenyl-phenylether	0.788	0.761		-3.4	
Fluorene	1.414	1.385		-2.1	
4-Nitroaniline	0.312	0.381		22.1	
4,6-Dinitro-2-methylphenol	0.110	0.115		4.5	
n-Nitrosodiphenylamine	0.521	0.476		-8.6	20.0
2,4,6-Tribromophenol	0.328	0.327		-0.3	
4-Bromophenyl-phenylether	0.227	0.203		-10.6	
Hexachlorobenzene	0.240	0.214		-10.8	
Atrazine	0.176	0.185		5.1	
Pentachlorophenol	0.145	0.148		2.1	20.0
Phenanthrene	0.948	0.902		-4.9	
Anthracene	0.973	0.929		-4.5	
Carbazole	0.858	0.897		4.5	
Di-n-butylphthalate	1.075	1.187		10.4	
Fluoranthene	1.139	1.215		6.7	20.0
Pyrene	1.361	1.313		-3.5	
Terphenyl-d14	1.064	1.021		-4.0	
Butylbenzylphthalate	0.559	0.555		-0.7	
3,3-Dichlorobenzidine	0.465	0.475		2.2	
Benzo(a)anthracene	1.376	1.326		-3.6	
Chrysene	1.320	1.268		-3.9	
Bis(2-ethylhexyl)phthalate	0.817	0.810		-0.9	
Di-n-octyl phthalate	1.436	1.438		0.1	20.0
Benzo(b)fluoranthene	1.085	1.055		-2.8	
Benzo(k)fluoranthene	1.090	1.068		-2.0	
Benzo(a)pyrene	1.065	1.043		-2.1	20.0
Indeno(1,2,3-cd)pyrene	1.331	1.286		-3.4	
Dibenzo(a,h)anthracene	1.100	1.065		-3.2	
Benzo(g,h,i)perylene	1.103	1.070		-3.0	
1,2,4,5-Tetrachlorobenzene	0.614	0.577		-6.0	
1,4-Dioxane	0.634	0.617		-2.7	20.0
2,3,4,6-Tetrachlorophenol	0.424	0.411		-3.1	

All other compounds must meet a minimum RRF of 0.010.

Form VII SV-1

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM Case No.: O3645 SAS No.: O3645 SDG No.: O3645

Instrument ID: BNA_M Calibration Date/Time: 07/28/2023 17:11

Lab File ID: BM041169.D Init. Calib. Date(s): 07/28/2023 07/28/2023

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 10:14 14:38

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.338	1.473		10.1	
Benzaldehyde	0.915	0.956		4.5	
Phenol-d6	1.735	1.969		13.5	
Phenol	1.675	1.893		13.0	20.0
bis(2-Chloroethyl)ether	1.356	1.497		10.4	
2-Chlorophenol	1.306	1.465		12.2	
2-Methylphenol	1.145	1.312		14.6	
2,2-oxybis(1-Chloropropane)	1.807	2.013		11.4	
Acetophenone	0.530	0.592		11.7	
3+4-Methylphenols	1.530	1.775		16.0	
n-Nitroso-di-n-propylamine	1.054	1.222	0.050	15.9	
Nitrobenzene-d5	0.430	0.486		13.0	
Hexachloroethane	0.532	0.597		12.2	
Nitrobenzene	0.435	0.489		12.4	
Isophorone	0.730	0.825		13.0	
2-Nitrophenol	0.170	0.197		15.9	20.0
2,4-Dimethylphenol	0.299	0.342		14.4	
bis(2-Chloroethoxy)methane	0.457	0.513		12.3	
2,4-Dichlorophenol	0.302	0.342		13.2	20.0
Naphthalene	1.085	1.202		10.8	
4-Chloroaniline	0.434	0.501		15.4	
Hexachlorobutadiene	0.200	0.217		8.5	20.0
Caprolactam	0.087	0.100		14.9	
4-Chloro-3-methylphenol	0.318	0.363		14.2	20.0
2-Methylnaphthalene	0.732	0.823		12.4	
Hexachlorocyclopentadiene	0.344	0.375	0.050	9.0	
2,4,6-Trichlorophenol	0.416	0.471		13.2	20.0
2-Fluorobiphenyl	1.583	1.760		11.2	
2,4,5-Trichlorophenol	0.482	0.545		13.1	
1,1-Biphenyl	1.621	1.805		11.4	
2-Chloronaphthalene	1.211	1.351		11.6	
2-Nitroaniline	0.386	0.456		18.1	
Dimethylphthalate	1.504	1.658		10.2	
Acenaphthylene	1.954	2.210		13.1	
2,6-Dinitrotoluene	0.312	0.357		14.4	
3-Nitroaniline	0.326	0.388		19.0	
Acenaphthene	1.177	1.313		11.6	20.0
2,4-Dinitrophenol	0.180	0.200	0.050	11.1	
4-Nitrophenol	0.260	0.298	0.050	14.6	
Dibenzofuran	1.921	2.131		10.9	
2,4-Dinitrotoluene	0.402	0.472		17.4	

Form VII SV-1

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM Case No.: O3645 SAS No.: O3645 SDG No.: O3645

Instrument ID: BNA_M Calibration Date/Time: 07/28/2023 17:11

Lab File ID: BM041169.D Init. Calib. Date(s): 07/28/2023 07/28/2023

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 10:14 14:38

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Diethylphthalate	1.455	1.612		10.8	
4-Chlorophenyl-phenylether	0.759	0.848		11.7	
Fluorene	1.515	1.702		12.3	
4-Nitroaniline	0.284	0.351		23.6	
4,6-Dinitro-2-methylphenol	0.121	0.136		12.4	
n-Nitrosodiphenylamine	0.622	0.705		13.3	20.0
2,4,6-Tribromophenol	0.283	0.325		14.8	
4-Bromophenyl-phenylether	0.219	0.246		12.3	
Hexachlorobenzene	0.244	0.270		10.7	
Atrazine	0.163	0.193		18.4	
Pentachlorophenol	0.169	0.198		17.2	20.0
Phenanthrene	1.111	1.236		11.3	
Anthracene	1.099	1.247		13.5	
Carbazole	0.995	1.132		13.8	
Di-n-butylphthalate	1.124	1.267		12.7	
Fluoranthene	1.248	1.402		12.3	20.0
Pyrene	1.399	1.564		11.8	
Terphenyl-d14	1.106	1.248		12.8	
Butylbenzylphthalate	0.511	0.585		14.5	
3,3-Dichlorobenzidine	0.442	0.511		15.6	
Benzo(a)anthracene	1.356	1.530		12.8	
Chrysene	1.311	1.463		11.6	
Bis(2-ethylhexyl)phthalate	0.730	0.825		13.0	
Di-n-octyl phthalate	1.291	1.384		7.2	20.0
Benzo(b)fluoranthene	1.188	1.346		13.3	
Benzo(k)fluoranthene	1.215	1.349		11.0	
Benzo(a)pyrene	1.142	1.294		13.3	20.0
Indeno(1,2,3-cd)pyrene	1.470	1.676		13.9	
Dibenzo(a,h)anthracene	1.226	1.393		13.6	
Benzo(g,h,i)perylene	1.200	1.367		13.9	
1,2,4,5-Tetrachlorobenzene	0.649	0.711		9.6	
1,4-Dioxane	0.572	0.618		8.0	20.0
2,3,4,6-Tetrachlorophenol	0.390	0.439		12.6	

All other compounds must meet a minimum RRF of 0.010.

Form VII SV-1

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM Case No.: O3645 SAS No.: O3645 SDG No.: O3645

Instrument ID: BNA_P Calibration Date/Time: 07/28/2023 08:03

Lab File ID: BP016411.D Init. Calib. Date(s): 07/27/2023 07/27/2023

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 11:03 15:03

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.226	1.299		6.0	
Benzaldehyde	0.866	0.889		2.7	
Phenol-d6	1.680	1.786		6.3	
Phenol	1.632	1.737		6.4	20.0
bis(2-Chloroethyl)ether	1.326	1.399		5.5	
2-Chlorophenol	1.285	1.350		5.1	
2-Methylphenol	1.176	1.244		5.8	
2,2-oxybis(1-Chloropropane)	1.504	1.643		9.2	
Acetophenone	0.505	0.518		2.6	
3+4-Methylphenols	1.597	1.691		5.9	
n-Nitroso-di-n-propylamine	1.053	1.118	0.050	6.2	
Nitrobenzene-d5	0.357	0.376		5.3	
Hexachloroethane	0.499	0.519		4.0	
Nitrobenzene	0.367	0.388		5.7	
Isophorone	0.721	0.750		4.0	
2-Nitrophenol	0.141	0.153		8.5	20.0
2,4-Dimethylphenol	0.323	0.330		2.2	
bis(2-Chloroethoxy)methane	0.442	0.460		4.1	
2,4-Dichlorophenol	0.302	0.308		2.0	20.0
Naphthalene	1.046	1.055		0.9	
4-Chloroaniline	0.472	0.480		1.7	
Hexachlorobutadiene	0.194	0.182		-6.2	20.0
Caprolactam	0.110	0.112		1.8	
4-Chloro-3-methylphenol	0.336	0.346		3.0	20.0
2-Methylnaphthalene	0.760	0.762		0.3	
Hexachlorocyclopentadiene	0.305	0.309	0.050	1.3	
2,4,6-Trichlorophenol	0.390	0.402		3.1	20.0
2-Fluorobiphenyl	1.395	1.387		-0.6	
2,4,5-Trichlorophenol	0.473	0.484		2.3	
1,1-Biphenyl	1.525	1.551		1.7	
2-Chloronaphthalene	1.150	1.171		1.8	
2-Nitroaniline	0.324	0.366		13.0	
Dimethylphthalate	1.559	1.562		0.2	
Acenaphthylene	1.908	1.958		2.6	
2,6-Dinitrotoluene	0.319	0.335		5.0	
3-Nitroaniline	0.361	0.387		7.2	
Acenaphthene	1.135	1.159		2.1	20.0
2,4-Dinitrophenol	0.121	0.124	0.050	2.5	
4-Nitrophenol	0.283	0.301	0.050	6.4	
Dibenzofuran	1.861	1.866		0.3	
2,4-Dinitrotoluene	0.416	0.449		7.9	

Form VII SV-1

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM Case No.: O3645 SAS No.: O3645 SDG No.: O3645

Instrument ID: BNA_P Calibration Date/Time: 07/28/2023 08:03

Lab File ID: BP016411.D Init. Calib. Date(s): 07/27/2023 07/27/2023

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 11:03 15:03

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Diethylphthalate	1.549	1.566		1.1	
4-Chlorophenyl-phenylether	0.738	0.714		-3.3	
Fluorene	1.462	1.453		-0.6	
4-Nitroaniline	0.358	0.379		5.9	
4,6-Dinitro-2-methylphenol	0.084	0.092		9.5	
n-Nitrosodiphenylamine	0.589	0.616		4.6	20.0
2,4,6-Tribromophenol	0.294	0.259		-11.9	
4-Bromophenyl-phenylether	0.212	0.211		-0.5	
Hexachlorobenzene	0.236	0.226		-4.2	
Atrazine	0.175	0.179		2.3	
Pentachlorophenol	0.163	0.159		-2.5	20.0
Phenanthrene	1.062	1.076		1.3	
Anthracene	1.068	1.096		2.6	
Carbazole	1.001	1.026		2.5	
Di-n-butylphthalate	1.158	1.238		6.9	
Fluoranthene	1.245	1.231		-1.1	20.0
Pyrene	1.341	1.487		10.9	
Terphenyl-d14	0.947	1.013		7.0	
Butylbenzylphthalate	0.527	0.619		17.5	
3,3-Dichlorobenzidine	0.441	0.458		3.9	
Benzo(a)anthracene	1.342	1.394		3.9	
Chrysene	1.281	1.312		2.4	
Bis(2-ethylhexyl)phthalate	0.791	0.901		13.9	
Di-n-octyl phthalate	1.330	1.443		8.5	20.0
Benzo(b)fluoranthene	1.159	1.283		10.7	
Benzo(k)fluoranthene	1.179	1.279		8.5	
Benzo(a)pyrene	1.123	1.187		5.7	20.0
Indeno(1,2,3-cd)pyrene	1.348	1.237		-8.2	
Dibenzo(a,h)anthracene	1.124	1.048		-6.8	
Benzo(g,h,i)perylene	1.084	0.980		-9.6	
1,2,4,5-Tetrachlorobenzene	0.608	0.595		-2.1	
1,4-Dioxane	0.478	0.507		6.1	20.0
2,3,4,6-Tetrachlorophenol	0.389	0.380		-2.3	

All other compounds must meet a minimum RRF of 0.010.

Form VII SV-1

CHEMTECH
284 Sheffield Street, Mountainside, New Jersey - 07092
Phone: (908) 789 8900 Fax: (908) 789 8922

LAB CHRONICLE

OrderID:	O3645	**OrderDate:**	7/17/2023 9:31:59 AM
Client:	LaBella Associates P.C.	**Project:**	Mackenna Parcels
Contact:	Andrew T. Benkleman	**Location:**	I11,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
O3645-01	**SB-02-(3-5)**	**SOIL**			**07/12/23**			**07/17/23**
			PCB Group1	8082A		07/18/23	07/18/23	
O3645-02	**SB-04-(1-5)**	**SOIL**			**07/12/23**			**07/17/23**
			PCB Group1	8082A		07/18/23	07/18/23	
O3645-03	**SB-07-(1-3)**	**SOIL**			**07/13/23**			**07/17/23**
			PCB Group1	8082A		07/18/23	07/18/23	
O3645-04	**SB-08-(0.5-2.0)**	**SOIL**			**07/13/23**			**07/17/23**
			PCB Group1	8082A		07/18/23	07/18/23	
O3645-05	**SB-09-(2.0-4.0)**	**SOIL**			**07/13/23**			**07/17/23**
			PCB Group1	8082A		07/18/23	07/18/23	
O3645-06	**SB-10-(0.5-2.0)**	**SOIL**			**07/13/23**			**07/17/23**
			PCB Group1	8082A		07/18/23	07/18/23	
O3645-07	**DUP**	**SOIL**			**07/12/23**			**07/17/23**
			PCB Group1	8082A		07/18/23	07/18/23	
O3645-08	**RINSATE-BLANK**	**WATER**			**07/12/23**			**07/17/23**
			PCB Group1	8082A		07/18/23	07/19/23	

Hit Summary Sheet
SW-846

SDG No.: O3645 **Order ID:** O3645

Client: LaBella Associates P.C. **Project ID:** Mackenna Parcels

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID :								
			Total Concentration:	0.000				

SAMPLE DATA

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/12/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-02-(3-5)	SDG No.:	O3645
Lab Sample ID:	O3645-01	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	86.3 Decanted:
Sample Wt/Vol:	30.05 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB Group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PQ062351.D	1	07/18/23 09:10	07/18/23 17:29	PB154254

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	19.7	U	4.10	19.7	ug/kg
11104-28-2	Aroclor-1221	19.7	U	6.80	19.7	ug/kg
11141-16-5	Aroclor-1232	19.7	U	5.20	19.7	ug/kg
53469-21-9	Aroclor-1242	19.7	U	3.60	19.7	ug/kg
12672-29-6	Aroclor-1248	19.7	U	3.30	19.7	ug/kg
11097-69-1	Aroclor-1254	19.7	U	4.30	19.7	ug/kg
37324-23-5	Aroclor-1262	19.7	U	3.10	19.7	ug/kg
11100-14-4	Aroclor-1268	19.7	U	3.80	19.7	ug/kg
11096-82-5	Aroclor-1260	19.7	U	3.90	19.7	ug/kg
Total PCBs	Total PCBs	19.7	U	6.60	19.7	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	22.2		40 - 162	111%	SPK: 20
2051-24-3	Decachlorobiphenyl	21.9		32 - 176	110%	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:	LaBella Associates P.C.	Date Collected:	07/12/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-04-(1-5)	SDG No.:	O3645
Lab Sample ID:	O3645-02	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	91.3 Decanted:
Sample Wt/Vol:	30.02 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB Group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PQ062352.D	1	07/18/23 09:10	07/18/23 17:44	PB154254

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	18.6	U	3.90	18.6	ug/kg
11104-28-2	Aroclor-1221	18.6	U	6.40	18.6	ug/kg
11141-16-5	Aroclor-1232	18.6	U	4.90	18.6	ug/kg
53469-21-9	Aroclor-1242	18.6	U	3.40	18.6	ug/kg
12672-29-6	Aroclor-1248	18.6	U	3.10	18.6	ug/kg
11097-69-1	Aroclor-1254	18.6	U	4.10	18.6	ug/kg
37324-23-5	Aroclor-1262	18.6	U	3.00	18.6	ug/kg
11100-14-4	Aroclor-1268	18.6	U	3.60	18.6	ug/kg
11096-82-5	Aroclor-1260	18.6	U	3.70	18.6	ug/kg
Total PCBs	Total PCBs	18.6	U	6.30	18.6	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	22.0		40 - 162	110%	SPK: 20
2051-24-3	Decachlorobiphenyl	20.5		32 - 176	102%	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

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/13/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-07-(1-3)	SDG No.:	O3645
Lab Sample ID:	O3645-03	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	79.5 Decanted:
Sample Wt/Vol:	30.09 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB Group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PQ062353.D	1	07/18/23 09:10	07/18/23 17:58	PB154254

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	21.3	U	4.50	21.3	ug/kg
11104-28-2	Aroclor-1221	21.3	U	7.40	21.3	ug/kg
11141-16-5	Aroclor-1232	21.3	U	5.70	21.3	ug/kg
53469-21-9	Aroclor-1242	21.3	U	3.90	21.3	ug/kg
12672-29-6	Aroclor-1248	21.3	U	3.50	21.3	ug/kg
11097-69-1	Aroclor-1254	21.3	U	4.70	21.3	ug/kg
37324-23-5	Aroclor-1262	21.3	U	3.40	21.3	ug/kg
11100-14-4	Aroclor-1268	21.3	U	4.10	21.3	ug/kg
11096-82-5	Aroclor-1260	21.3	U	4.20	21.3	ug/kg
Total PCBs	Total PCBs	21.3	U	7.20	21.3	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	22.1		40 - 162	110%	SPK: 20
2051-24-3	Decachlorobiphenyl	20.4		32 - 176	102%	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:	LaBella Associates P.C.	Date Collected:	07/13/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-08-(0.5-2.0)	SDG No.:	O3645
Lab Sample ID:	O3645-04	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	74.6 Decanted:
Sample Wt/Vol:	30.01 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB Group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PQ062354.D	1	07/18/23 09:10	07/18/23 18:13	PB154254

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	22.8	U	4.80	22.8	ug/kg
11104-28-2	Aroclor-1221	22.8	U	7.90	22.8	ug/kg
11141-16-5	Aroclor-1232	22.8	U	6.10	22.8	ug/kg
53469-21-9	Aroclor-1242	22.8	U	4.20	22.8	ug/kg
12672-29-6	Aroclor-1248	22.8	U	3.80	22.8	ug/kg
11097-69-1	Aroclor-1254	22.8	U	5.00	22.8	ug/kg
37324-23-5	Aroclor-1262	22.8	U	3.60	22.8	ug/kg
11100-14-4	Aroclor-1268	22.8	U	4.40	22.8	ug/kg
11096-82-5	Aroclor-1260	22.8	U	4.50	22.8	ug/kg
Total PCBs	Total PCBs	22.8	U	7.70	22.8	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	22.2		40 - 162	111%	SPK: 20
2051-24-3	Decachlorobiphenyl	17.5		32 - 176	87%	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

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/13/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-09-(2.0-4.0)	SDG No.:	O3645
Lab Sample ID:	O3645-05	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	79.4 Decanted:
Sample Wt/Vol:	30.06 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB Group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PQ062355.D	1	07/18/23 09:10	07/18/23 18:28	PB154254

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	21.4	U	4.50	21.4	ug/kg
11104-28-2	Aroclor-1221	21.4	U	7.40	21.4	ug/kg
11141-16-5	Aroclor-1232	21.4	U	5.70	21.4	ug/kg
53469-21-9	Aroclor-1242	21.4	U	3.90	21.4	ug/kg
12672-29-6	Aroclor-1248	21.4	U	3.50	21.4	ug/kg
11097-69-1	Aroclor-1254	21.4	U	4.70	21.4	ug/kg
37324-23-5	Aroclor-1262	21.4	U	3.40	21.4	ug/kg
11100-14-4	Aroclor-1268	21.4	U	4.10	21.4	ug/kg
11096-82-5	Aroclor-1260	21.4	U	4.20	21.4	ug/kg
Total PCBs	Total PCBs	21.4	U	7.20	21.4	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	17.9		40 - 162	89%	SPK: 20
2051-24-3	Decachlorobiphenyl	11.0		32 - 176	55%	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:	LaBella Associates P.C.	Date Collected:	07/13/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-10-(0.5-2.0)	SDG No.:	O3645
Lab Sample ID:	O3645-06	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	83.3 Decanted:
Sample Wt/Vol:	30.08 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB Group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PQ062356.D	1	07/18/23 09:10	07/18/23 18:42	PB154254

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	20.4	U	4.30	20.4	ug/kg
11104-28-2	Aroclor-1221	20.4	U	7.00	20.4	ug/kg
11141-16-5	Aroclor-1232	20.4	U	5.40	20.4	ug/kg
53469-21-9	Aroclor-1242	20.4	U	3.70	20.4	ug/kg
12672-29-6	Aroclor-1248	20.4	U	3.40	20.4	ug/kg
11097-69-1	Aroclor-1254	20.4	U	4.50	20.4	ug/kg
37324-23-5	Aroclor-1262	20.4	U	3.30	20.4	ug/kg
11100-14-4	Aroclor-1268	20.4	U	4.00	20.4	ug/kg
11096-82-5	Aroclor-1260	20.4	U	4.00	20.4	ug/kg
Total PCBs	Total PCBs	20.4	U	6.90	20.4	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	22.0		40 - 162	110%	SPK: 20
2051-24-3	Decachlorobiphenyl	20.8		32 - 176	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:	LaBella Associates P.C.	Date Collected:	07/12/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	DUP	SDG No.:	O3645
Lab Sample ID:	O3645-07	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	80.8 Decanted:
Sample Wt/Vol:	30.05 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB Group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PQ062357.D	1	07/18/23 09:10	07/18/23 18:57	PB154254

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	21.0	U	4.40	21.0	ug/kg
11104-28-2	Aroclor-1221	21.0	U	7.30	21.0	ug/kg
11141-16-5	Aroclor-1232	21.0	U	5.60	21.0	ug/kg
53469-21-9	Aroclor-1242	21.0	U	3.90	21.0	ug/kg
12672-29-6	Aroclor-1248	21.0	U	3.50	21.0	ug/kg
11097-69-1	Aroclor-1254	21.0	U	4.60	21.0	ug/kg
37324-23-5	Aroclor-1262	21.0	U	3.40	21.0	ug/kg
11100-14-4	Aroclor-1268	21.0	U	4.10	21.0	ug/kg
11096-82-5	Aroclor-1260	21.0	U	4.10	21.0	ug/kg
Total PCBs	Total PCBs	21.0	U	7.10	21.0	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	18.2		40 - 162	91%	SPK: 20
2051-24-3	Decachlorobiphenyl	15.1		32 - 176	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:	LaBella Associates P.C.	Date Collected:	07/12/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	RINSATE-BLANK	SDG No.:	O3645
Lab Sample ID:	O3645-08	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB Group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PQ062374.D	1	07/18/23 08:50	07/19/23 00:04	PB154263

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.50	U	0.15	0.50	ug/L
11104-28-2	Aroclor-1221	0.50	U	0.22	0.50	ug/L
11141-16-5	Aroclor-1232	0.50	U	0.18	0.50	ug/L
53469-21-9	Aroclor-1242	0.50	U	0.18	0.50	ug/L
12672-29-6	Aroclor-1248	0.50	U	0.15	0.50	ug/L
11097-69-1	Aroclor-1254	0.50	U	0.15	0.50	ug/L
37324-23-5	Aroclor-1262	0.50	U	0.16	0.50	ug/L
11100-14-4	Aroclor-1268	0.50	U	0.13	0.50	ug/L
11096-82-5	Aroclor-1260	0.50	U	0.16	0.50	ug/L
Total PCBs	Total PCBs	0.50	U	0.22	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	19.7		21 - 155	98%	SPK: 20
2051-24-3	Decachlorobiphenyl	19.6		10 - 173	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

QC SUMMARY

Surrogate Summary

SDG No.: O3645

Client: LaBella Associates P.C.

Analytical Method: 8082A

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits Low	Limits High
I.BLK-PQ061834.D	PIBLK-PQ061834.D	Tetrachloro-m-xylene	1	20	20.0	100		60	140
		Decachlorobiphenyl	1	20	20.9	105		60	140
		Tetrachloro-m-xylene	2	20	20.3	101		60	140
		Decachlorobiphenyl	2	20	20.5	102		60	140
I.BLK-PQ062334.D	PIBLK-PQ062334.D	Tetrachloro-m-xylene	1	20	15.0	75		60	140
		Decachlorobiphenyl	1	20	17.2	86		60	140
		Tetrachloro-m-xylene	2	20	17.7	89		60	140
		Decachlorobiphenyl	2	20	18.5	92		60	140
PB154254BL	PB154254BL	Tetrachloro-m-xylene	1	20	17.0	85		40	162
		Decachlorobiphenyl	1	20	19.4	97		32	176
		Tetrachloro-m-xylene	2	20	19.1	96		40	162
		Decachlorobiphenyl	2	20	20.4	102		32	176
PB154254BS	PB154254BS	Tetrachloro-m-xylene	1	20	16.9	84		40	162
		Decachlorobiphenyl	1	20	19.0	95		32	176
		Tetrachloro-m-xylene	2	20	18.2	91		40	162
		Decachlorobiphenyl	2	20	19.8	99		32	176
I.BLK-PQ062346.D	PIBLK-PQ062346.D	Tetrachloro-m-xylene	1	20	15.9	79		60	140
		Decachlorobiphenyl	1	20	17.1	85		60	140
		Tetrachloro-m-xylene	2	20	18.4	92		60	140
		Decachlorobiphenyl	2	20	18.0	90		60	140
O3645-01	SB-02-(3-5)	Tetrachloro-m-xylene	1	20	19.6	98		40	162
		Decachlorobiphenyl	1	20	20.4	102		32	176
		Tetrachloro-m-xylene	2	20	22.2	111		40	162
		Decachlorobiphenyl	2	20	21.9	110		32	176
O3645-02	SB-04-(1-5)	Tetrachloro-m-xylene	1	20	19.9	99		40	162
		Decachlorobiphenyl	1	20	19.6	98		32	176
		Tetrachloro-m-xylene	2	20	22.0	110		40	162
		Decachlorobiphenyl	2	20	20.5	102		32	176
O3645-03	SB-07-(1-3)	Tetrachloro-m-xylene	1	20	19.3	96		40	162
		Decachlorobiphenyl	1	20	19.1	95		32	176
		Tetrachloro-m-xylene	2	20	22.1	110		40	162
		Decachlorobiphenyl	2	20	20.4	102		32	176
O3645-04	SB-08-(0.5-2.0)	Tetrachloro-m-xylene	1	20	19.6	98		40	162
		Decachlorobiphenyl	1	20	16.6	83		32	176
		Tetrachloro-m-xylene	2	20	22.2	111		40	162
		Decachlorobiphenyl	2	20	17.5	87		32	176
O3645-05	SB-09-(2.0-4.0)	Tetrachloro-m-xylene	1	20	15.9	80		40	162
		Decachlorobiphenyl	1	20	10.8	54		32	176
		Tetrachloro-m-xylene	2	20	17.9	89		40	162
		Decachlorobiphenyl	2	20	11.0	55		32	176
O3645-06	SB-10-(0.5-2.0)	Tetrachloro-m-xylene	1	20	22.0	110		40	162
		Decachlorobiphenyl	1	20	20.5	103		32	176
		Tetrachloro-m-xylene	2	20	20.7	104		40	162

Surrogate Summary

SDG No.: O3645

Client: LaBella Associates P.C.

Analytical Method: 8082A

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits Low	Limits High
O3645-06	SB-10-(0.5-2.0)	Decachlorobiphenyl	2	20	20.8	104		32	176
O3645-07	DUP	Tetrachloro-m-xylene	1	20	15.8	79		40	162
		Decachlorobiphenyl	1	20	14.0	70		32	176
		Tetrachloro-m-xylene	2	20	18.2	91		40	162
		Decachlorobiphenyl	2	20	15.1	76		32	176
O3645-09MS	SB-04-(1-5)MS	Tetrachloro-m-xylene	1	20	18.7	93		40	162
		Decachlorobiphenyl	1	20	18.7	93		32	176
		Tetrachloro-m-xylene	2	20	20.3	102		40	162
		Decachlorobiphenyl	2	20	19.7	98		32	176
O3645-10MSD	SB-04-(1-5)MSD	Tetrachloro-m-xylene	1	20	18.9	94		40	162
		Decachlorobiphenyl	1	20	19.0	95		32	176
		Tetrachloro-m-xylene	2	20	20.3	101		40	162
		Decachlorobiphenyl	2	20	19.7	99		32	176
I.BLK-PQ062368.D	PIBLK-PQ062368.D	Tetrachloro-m-xylene	1	20	16.7	84		60	140
		Decachlorobiphenyl	1	20	18.3	92		60	140
		Tetrachloro-m-xylene	2	20	19.3	96		60	140
		Decachlorobiphenyl	2	20	19.7	98		60	140
PB154263BL	PB154263BL	Tetrachloro-m-xylene	1	20	17.1	86		21	155
		Decachlorobiphenyl	1	20	19.8	99		10	173
		Tetrachloro-m-xylene	2	20	19.5	98		21	155
		Decachlorobiphenyl	2	20	21.1	106		10	173
PB154263BS	PB154263BS	Tetrachloro-m-xylene	1	20	17.4	87		21	155
		Decachlorobiphenyl	1	20	19.8	99		10	173
		Tetrachloro-m-xylene	2	20	18.9	95		21	155
		Decachlorobiphenyl	2	20	20.6	103		10	173
PB154263BSD	PB154263BSD	Tetrachloro-m-xylene	1	20	17.2	86		21	155
		Decachlorobiphenyl	1	20	19.9	100		10	173
		Tetrachloro-m-xylene	2	20	18.5	93		21	155
		Decachlorobiphenyl	2	20	21.0	105		10	173
O3645-08	RINSATE-BLANK	Tetrachloro-m-xylene	1	20	17.0	85		21	155
		Decachlorobiphenyl	1	20	18.3	91		10	173
		Tetrachloro-m-xylene	2	20	19.7	98		21	155
		Decachlorobiphenyl	2	20	19.6	98		10	173
I.BLK-PQ062377.D	PIBLK-PQ062377.D	Tetrachloro-m-xylene	1	20	16.9	84		60	140
		Decachlorobiphenyl	1	20	19.1	96		60	140
		Tetrachloro-m-xylene	2	20	19.7	99		60	140
		Decachlorobiphenyl	2	20	20.3	102		60	140

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: O3645

Client: LaBella Associates P.C.

Analytical Method: 8082A **DataFile :** PQ062358.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Client Sample ID:	**SB-04-(1-5)MS**											
O3645-09MS	AR1016	182.2	0	182	ug/kg	100				70	142	
	AR1260	182.2	0	183	ug/kg	100				50	147	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: O3645

Client: LaBella Associates P.C.

Analytical Method: 8082A **DataFile :** PQ062359.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Client Sample ID:	**SB-04-(1-5)MSD**											
O3645-10MSD	AR1016	182.1	0	184	ug/kg	101		1		70	142	20
	AR1260	182.1	0	187	ug/kg	103		3		50	147	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: O3645

Client: LaBella Associates P.C.

Analytical Method: 8082A **Datafile :** PQ062336.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB154254BS	AR1016	166.7	143	ug/kg	86				71	120	
	AR1260	166.7	151	ug/kg	91				65	130	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: O3645

Client: LaBella Associates P.C.

Analytical Method: 8082A **Datafile :** PQ062371.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB154263BS	AR1016	5	4.40	ug/L	88				61	112	
	AR1260	5	4.60	ug/L	92				48	142	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: O3645

Client: LaBella Associates P.C.

Analytical Method: 8082A **Datafile :** PQ062372.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB154263BSD	AR1016	5	4.30	ug/L	86	2			61	112	20
	AR1260	5	4.60	ug/L	92	0			48	142	20

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB154254BL

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM Case No.: O3645 SAS No.: O3645 SDG NO.: O3645

Lab Sample ID: PB154254BL Lab File ID: PQ062335.D

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

Sulfur Cleanup: (Y/N) N Date Extracted: 07/18/2023

Date Analyzed (1): 07/18/2023 Date Analyzed (2): 07/18/2023

Time Analyzed (1): 13:20 Time Analyzed (2): 13:20

Instrument ID (1): ECD_Q Instrument ID (2): ECD_Q

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
PB154254BS	PB154254BS	PQ062336.D	07/18/2023	07/18/2023
SB-02-(3-5)	O3645-01	PQ062351.D	07/18/2023	07/18/2023
SB-04-(1-5)	O3645-02	PQ062352.D	07/18/2023	07/18/2023
SB-07-(1-3)	O3645-03	PQ062353.D	07/18/2023	07/18/2023
SB-08-(0.5-2.0)	O3645-04	PQ062354.D	07/18/2023	07/18/2023
SB-09-(2.0-4.0)	O3645-05	PQ062355.D	07/18/2023	07/18/2023
SB-10-(0.5-2.0)	O3645-06	PQ062356.D	07/18/2023	07/18/2023
DUP	O3645-07	PQ062357.D	07/18/2023	07/18/2023
SB-04-(1-5)MS	O3645-09MS	PQ062358.D	07/18/2023	07/18/2023
SB-04-(1-5)MSD	O3645-10MSD	PQ062359.D	07/18/2023	07/18/2023

COMMENTS:

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB154263BL

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM Case No.: O3645 SAS No.: O3645 SDG NO.: O3645

Lab Sample ID: PB154263BL Lab File ID: PQ062370.D

Matrix: (soil/water) WATER Extraction: (Type) SEPF

Sulfur Cleanup: (Y/N) N Date Extracted: 07/18/2023

Date Analyzed (1): 07/18/2023 Date Analyzed (2): 07/18/2023

Time Analyzed (1): 23:06 Time Analyzed (2): 23:06

Instrument ID (1): ECD_Q Instrument ID (2): ECD_Q

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
PB154263BS	PB154263BS	PQ062371.D	07/18/2023	07/18/2023
PB154263BSD	PB154263BSD	PQ062372.D	07/18/2023	07/18/2023
RINSATE-BLANK	O3645-08	PQ062374.D	07/19/2023	07/19/2023

COMMENTS:

CALIBRATION SUMMARY

RETENTION TIMES OF INITIAL CALIBRATION

Contract: LABE01

Lab Code: CHEM **Case No.:** O3645 **SAS No.:** O3645 **SDG NO.:** O3645

Instrument ID: ECD_Q **Calibration Date(s):** 07/01/2023 07/01/2023

Calibration Times: 03:04 09:39

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

LAB FILE ID: RT 1000 = PQ061835.D RT 750 = PQ061836.D

RT 500 = PQ061837.D RT 250 = PQ061838.D RT 050 = PQ061839.D

COMPOUND		RT 1000	RT 750	RT 500	RT 250	RT 050	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Aroclor-1016-1	(1)	4.51	4.51	4.50	4.51	4.51	4.51	4.41	4.61
Aroclor-1016-2	(2)	4.52	4.52	4.52	4.52	4.52	4.52	4.42	4.62
Aroclor-1016-3	(3)	4.58	4.58	4.58	4.58	4.58	4.58	4.48	4.68
Aroclor-1016-4	(4)	4.67	4.67	4.67	4.67	4.67	4.67	4.57	4.77
Aroclor-1016-5	(5)	4.96	4.96	4.96	4.96	4.96	4.96	4.86	5.06
Aroclor-1260-1	(1)	6.06	6.06	6.06	6.06	6.06	6.06	5.96	6.16
Aroclor-1260-2	(2)	6.32	6.32	6.32	6.32	6.32	6.32	6.22	6.42
Aroclor-1260-3	(3)	6.68	6.68	6.68	6.68	6.68	6.68	6.58	6.78
Aroclor-1260-4	(4)	6.89	6.89	6.89	6.89	6.89	6.89	6.79	6.99
Aroclor-1260-5	(5)	7.21	7.21	7.20	7.20	7.20	7.20	7.10	7.30
Decachlorobiphenyl		8.58	8.59	8.58	8.58	8.58	8.58	8.48	8.68
Tetrachloro-m-xylene		3.41	3.41	3.40	3.41	3.40	3.41	3.31	3.51
Aroclor-1242-1	(1)	4.51	4.51	4.50	4.50	4.50	4.50	4.40	4.60
Aroclor-1242-2	(2)	4.52	4.52	4.52	4.52	4.52	4.52	4.42	4.62
Aroclor-1242-3	(3)	4.58	4.58	4.58	4.58	4.58	4.58	4.48	4.68
Aroclor-1242-4	(4)	4.67	4.67	4.67	4.67	4.67	4.67	4.57	4.77
Aroclor-1242-5	(5)	5.39	5.39	5.39	5.39	5.39	5.39	5.29	5.49
Decachlorobiphenyl		8.58	8.58	8.58	8.58	8.58	8.58	8.48	8.68
Tetrachloro-m-xylene		3.40	3.41	3.40	3.40	3.40	3.40	3.30	3.50
Aroclor-1248-1	(1)	4.51	4.52	4.50	4.50	4.51	4.51	4.41	4.61
Aroclor-1248-2	(2)	4.77	4.79	4.77	4.77	4.77	4.77	4.67	4.87
Aroclor-1248-3	(3)	4.96	4.98	4.96	4.96	4.96	4.96	4.86	5.06
Aroclor-1248-4	(4)	5.35	5.37	5.35	5.35	5.35	5.36	5.26	5.46
Aroclor-1248-5	(5)	5.39	5.41	5.39	5.39	5.39	5.39	5.29	5.49
Decachlorobiphenyl		8.58	8.60	8.58	8.58	8.58	8.59	8.49	8.69
Tetrachloro-m-xylene		3.40	3.42	3.40	3.40	3.40	3.41	3.31	3.51
Aroclor-1254-1	(1)	5.33	5.33	5.33	5.33	5.33	5.33	5.23	5.43
Aroclor-1254-2	(2)	5.54	5.54	5.54	5.54	5.54	5.54	5.44	5.64
Aroclor-1254-3	(3)	5.90	5.90	5.90	5.90	5.90	5.90	5.80	6.00
Aroclor-1254-4	(4)	6.18	6.18	6.18	6.18	6.18	6.18	6.08	6.28
Aroclor-1254-5	(5)	6.60	6.60	6.59	6.60	6.60	6.60	6.50	6.70
Decachlorobiphenyl		8.58	8.58	8.58	8.58	8.58	8.58	8.48	8.68
Tetrachloro-m-xylene		3.40	3.40	3.40	3.40	3.40	3.40	3.30	3.50
Aroclor-1268-1	(1)	7.48	7.48	7.48	7.48	7.48	7.48	7.38	7.58
Aroclor-1268-2	(2)	7.56	7.56	7.56	7.56	7.56	7.56	7.46	7.66
Aroclor-1268-3	(3)	7.74	7.74	7.74	7.74	7.74	7.74	7.64	7.84
Aroclor-1268-4	(4)	8.06	8.06	8.06	8.06	8.06	8.06	7.96	8.16
Aroclor-1268-5	(5)	8.35	8.35	8.35	8.35	8.35	8.35	8.25	8.45

RETENTION TIMES OF INITIAL CALIBRATION

Decachlorobiphenyl	8.58	8.58	8.58	8.58	8.58	8.58	8.48	8.68
Tetrachloro-m-xylene	3.40	3.40	3.40	3.40	3.40	3.40	3.30	3.50

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RETENTION TIMES OF INITIAL CALIBRATION

Contract: LABE01

Lab Code: CHEM **Case No.:** O3645 **SAS No.:** O3645 **SDG NO.:** O3645

Instrument ID: ECD_Q **Calibration Date(s):** 07/01/2023 07/01/2023

Calibration Times: 03:04 09:39

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

LAB FILE ID: RT 1000 = PQ061835.D RT 750 = PQ061836.D

RT 500 = PQ061837.D RT 250 = PQ061838.D RT 050 = PQ061839.D

COMPOUND		RT 1000	RT 750	RT 500	RT 250	RT 050	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Aroclor-1016-1	(1)	3.76	3.76	3.76	3.76	3.76	3.76	3.66	3.86
Aroclor-1016-2	(2)	3.78	3.78	3.78	3.78	3.78	3.78	3.68	3.88
Aroclor-1016-3	(3)	3.94	3.94	3.94	3.94	3.94	3.94	3.84	4.04
Aroclor-1016-4	(4)	3.99	3.99	3.99	3.99	3.99	3.99	3.89	4.09
Aroclor-1016-5	(5)	4.18	4.18	4.18	4.18	4.18	4.18	4.08	4.28
Aroclor-1260-1	(1)	5.17	5.17	5.17	5.17	5.17	5.17	5.07	5.27
Aroclor-1260-2	(2)	5.36	5.36	5.36	5.36	5.36	5.36	5.26	5.46
Aroclor-1260-3	(3)	5.51	5.50	5.50	5.50	5.50	5.50	5.40	5.60
Aroclor-1260-4	(4)	5.97	5.97	5.97	5.97	5.97	5.97	5.87	6.07
Aroclor-1260-5	(5)	6.21	6.21	6.21	6.21	6.21	6.21	6.11	6.31
Decachlorobiphenyl		7.53	7.53	7.53	7.53	7.53	7.53	7.43	7.63
Tetrachloro-m-xylene		2.76	2.76	2.76	2.76	2.76	2.76	2.66	2.86
Aroclor-1242-1	(1)	3.76	3.76	3.76	3.76	3.76	3.76	3.66	3.86
Aroclor-1242-2	(2)	3.78	3.78	3.78	3.78	3.78	3.78	3.68	3.88
Aroclor-1242-3	(3)	3.94	3.94	3.94	3.94	3.94	3.94	3.84	4.04
Aroclor-1242-4	(4)	4.02	4.02	4.02	4.02	4.02	4.02	3.92	4.12
Aroclor-1242-5	(5)	4.52	4.52	4.52	4.52	4.52	4.52	4.42	4.62
Decachlorobiphenyl		7.53	7.53	7.53	7.53	7.53	7.53	7.43	7.63
Tetrachloro-m-xylene		2.76	2.76	2.76	2.76	2.76	2.76	2.66	2.86
Aroclor-1248-1	(1)	3.76	3.76	3.76	3.76	3.76	3.76	3.66	3.86
Aroclor-1248-2	(2)	3.99	3.99	3.99	3.99	3.99	3.99	3.89	4.09
Aroclor-1248-3	(3)	4.02	4.02	4.02	4.02	4.02	4.02	3.92	4.12
Aroclor-1248-4	(4)	4.18	4.18	4.18	4.18	4.18	4.18	4.08	4.28
Aroclor-1248-5	(5)	4.55	4.55	4.55	4.56	4.55	4.55	4.45	4.65
Decachlorobiphenyl		7.53	7.53	7.53	7.53	7.53	7.53	7.43	7.63
Tetrachloro-m-xylene		2.76	2.76	2.76	2.76	2.76	2.76	2.66	2.86
Aroclor-1254-1	(1)	4.52	4.52	4.52	4.52	4.52	4.52	4.42	4.62
Aroclor-1254-2	(2)	4.66	4.66	4.66	4.66	4.66	4.66	4.56	4.76
Aroclor-1254-3	(3)	5.04	5.04	5.04	5.04	5.04	5.04	4.94	5.14
Aroclor-1254-4	(4)	5.27	5.27	5.27	5.27	5.27	5.27	5.17	5.37
Aroclor-1254-5	(5)	5.68	5.68	5.68	5.68	5.68	5.68	5.58	5.78
Decachlorobiphenyl		7.53	7.53	7.53	7.53	7.53	7.53	7.43	7.63
Tetrachloro-m-xylene		2.76	2.76	2.76	2.76	2.76	2.76	2.66	2.86
Aroclor-1268-1	(1)	6.49	6.49	6.49	6.49	6.49	6.49	6.39	6.59
Aroclor-1268-2	(2)	6.55	6.55	6.55	6.55	6.55	6.55	6.45	6.65
Aroclor-1268-3	(3)	6.75	6.75	6.75	6.75	6.75	6.75	6.65	6.85
Aroclor-1268-4	(4)	7.04	7.05	7.04	7.04	7.04	7.04	6.94	7.14
Aroclor-1268-5	(5)	7.31	7.31	7.31	7.31	7.31	7.31	7.21	7.41

RETENTION TIMES OF INITIAL CALIBRATION

Decachlorobiphenyl	7.53	7.53	7.53	7.53	7.53	7.53	7.43	7.63
Tetrachloro-m-xylene	2.76	2.76	2.76	2.76	2.76	2.76	2.66	2.86

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: LABE01

Lab Code: CHEM **Case No.:** O3645 **SAS No.:** O3645 **SDG NO.:** O3645

Instrument ID: ECD_Q **Calibration Date(s):** 07/01/2023 07/01/2023

Calibration Times: 03:04 09:39

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

LAB FILE ID: **CF 1000 =** PQ061835.D **CF 750 =** PQ061836.D

CF 500 = PQ061837.D **CF 250 =** PQ061838.D **CF 050 =** PQ061839.D

COMPOUND		CF 1000	CF 750	CF 500	CF 250	CF 050	CF	% RSD
Aroclor-1016-1	(1)	165606472	168587108	168279828	173074120	148042080	164717922	6
Aroclor-1016-2	(2)	247560975	249293749	253818164	255974056	229694860	247268361	4
Aroclor-1016-3	(3)	150077294	151886135	155061318	159342292	145661180	152405644	3
Aroclor-1016-4	(4)	124334874	126646800	127062662	128148620	120533360	125345263	2
Aroclor-1016-5	(5)	119371211	120721977	123605514	127074876	117810760	121716868	3
Aroclor-1260-1	(1)	231814227	235194988	240387124	246556300	225705360	235931600	3
Aroclor-1260-2	(2)	279196652	283551855	291520792	302056716	287736360	288812475	3
Aroclor-1260-3	(3)	173388700	176639817	179706544	182823904	170323020	176576397	3
Aroclor-1260-4	(4)	210284099	210424784	214539528	217817712	200182560	210649737	3
Aroclor-1260-5	(5)	412460898	413449515	416848222	422145980	388140340	410608991	3
Decachlorobiphenyl		3560536330	3598491653	3708541760	3812346240	3483867600	3632756717	4
Tetrachloro-m-xylene		4971885790	5007263680	5010988940	4997077760	4403745600	4878192354	5
Aroclor-1242-1	(1)	124524411	126682077	133440674	140965868	127907400	130704086	5
Aroclor-1242-2	(2)	184136155	188234016	198320918	205515132	194485600	194138364	4
Aroclor-1242-3	(3)	113505199	115500193	122524800	127344280	125346160	120844126	5
Aroclor-1242-4	(4)	93901035	95558696	100364786	103374896	94229320	97485747	4
Aroclor-1242-5	(5)	95677681	97879572	101772924	102714020	80606100	95730059	9
Decachlorobiphenyl		3533771350	3610739173	3802574500	3962058280	3805163600	3742861381	5
Tetrachloro-m-xylene		4950194780	5004502187	5187781380	5287630280	4912333200	5068488365	3
Aroclor-1248-1	(1)	101532881	103687529	108736062	112130504	93806240	103978643	7
Aroclor-1248-2	(2)	134889130	139425571	147651332	153806584	142537960	143662115	5
Aroclor-1248-3	(3)	164978029	170853717	179018774	187073532	166639960	173712802	5
Aroclor-1248-4	(4)	185288890	189404373	199301686	204440340	181217120	191930482	5
Aroclor-1248-5	(5)	180028262	184065977	192382298	197077708	152056120	181122073	10
Decachlorobiphenyl		3664865420	3781469267	3950746120	4071747840	3769946600	3847755049	4
Tetrachloro-m-xylene		5090313230	5180775573	5376645620	5365159400	4583519000	5119282565	6
Aroclor-1254-1	(1)	174947235	182221152	189004822	201060728	181872800	185821347	5
Aroclor-1254-2	(2)	272892699	284048927	295200784	312967580	288454940	290712986	5
Aroclor-1254-3	(3)	291946447	302580463	313643486	329864396	297666480	307140254	5
Aroclor-1254-4	(4)	218598125	226803107	234355736	246201544	235006600	232193022	4
Aroclor-1254-5	(5)	246047511	255897805	263067528	274909848	244428160	256870170	5
Decachlorobiphenyl		3513306230	3668168107	3822823440	4035338440	3590789200	3726085083	6
Tetrachloro-m-xylene		4921362040	5059775373	5165316320	5320773480	4580343800	5009514203	6
Aroclor-1268-1	(1)	531388133	566293227	576692258	604194540	558824420	567478516	5

CALIBRATION FACTOR OF INITIAL CALIBRATION

Aroclor-1268-2	(2)	480782556	512147229	521329926	541591684	493512160	509872711	5
Aroclor-1268-3	(3)	403398958	426826568	435636530	454506476	413495000	426772706	5
Aroclor-1268-4	(4)	170693328	182408305	187404518	195352812	179066320	182985057	5
Aroclor-1268-5	(5)	1210434141	1274612009	1285398726	1327423944	1205895980	1260752960	4
Decachlorobiphenyl		5706612520	6040381307	6203210740	6528972000	6022348400	6100304993	5
Tetrachloro-m-xylene		4440312980	4976652440	5029655640	5154754000	4574560600	4835187132	6

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: LABE01

Lab Code: CHEM **Case No.:** O3645 **SAS No.:** O3645 **SDG NO.:** O3645

Instrument ID: ECD_Q **Calibration Date(s):** 07/01/2023 07/01/2023

Calibration Times: 03:04 09:39

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

LAB FILE ID: **CF 1000 =** PQ061835.D **CF 750 =** PQ061836.D

CF 500 = PQ061837.D **CF 250 =** PQ061838.D **CF 050 =** PQ061839.D

COMPOUND		CF 1000	CF 750	CF 500	CF 250	CF 050	CF	% RSD
Aroclor-1016-1	(1)	95059022	100157919	99799326	105174560	94686200	98975405	4
Aroclor-1016-2	(2)	140213069	146382796	145788530	149864596	138745900	144198978	3
Aroclor-1016-3	(3)	74786721	75833213	78160364	80901460	67531680	75442688	7
Aroclor-1016-4	(4)	63418735	64095188	68213824	70076988	62590960	65679139	5
Aroclor-1016-5	(5)	78296673	79238107	84420330	87299528	80653440	81981616	5
Aroclor-1260-1	(1)	161890943	164359937	167452506	174667128	164395480	166553199	3
Aroclor-1260-2	(2)	201684425	202946975	205146426	212979324	216973060	207946042	3
Aroclor-1260-3	(3)	191493597	193267276	193234216	199942564	194855680	194558667	2
Aroclor-1260-4	(4)	143361581	144799459	146642604	151842772	142661280	145861539	3
Aroclor-1260-5	(5)	331016196	331550343	341865748	339399112	316463560	332058992	3
Decachlorobiphenyl		3244904370	3282789987	3379152400	3447802080	3306245600	3332178887	2
Tetrachloro-m-xylene		2594635550	2551389520	2556156360	2576840440	2266505800	2509105534	5
Aroclor-1242-1	(1)	73698107	74437112	79858234	80347240	78354680	77339075	4
Aroclor-1242-2	(2)	108257772	107835555	112148394	116909188	110642440	111158670	3
Aroclor-1242-3	(3)	57751145	56938439	60424816	62094336	55671540	58576055	4
Aroclor-1242-4	(4)	55063545	55221313	59163236	62162688	61530100	58628176	6
Aroclor-1242-5	(5)	78281292	78798571	85166684	87316496	84900040	82892617	5
Decachlorobiphenyl		3229344350	3289877853	3455487080	3591382080	3447112400	3402640753	4
Tetrachloro-m-xylene		2528835730	2565765880	2677311680	2755265760	2475753000	2600586410	4
Aroclor-1248-1	(1)	60440678	61539253	64431884	68004820	58185180	62520363	6
Aroclor-1248-2	(2)	89666096	90573249	99854226	100027184	88723080	93768767	6
Aroclor-1248-3	(3)	86657239	87438648	95906086	96140928	86575700	90543720	6
Aroclor-1248-4	(4)	107902999	109888035	117922082	120961700	107522420	112839447	5
Aroclor-1248-5	(5)	109111515	110888256	116446744	118957708	104758760	112032597	5
Decachlorobiphenyl		3342610600	3429675080	3552526200	3654544480	3358565400	3467584352	4
Tetrachloro-m-xylene		2678444770	2696577307	2804395640	2821488920	2377414200	2675664167	7
Aroclor-1254-1	(1)	151435820	159158548	165411510	173122860	158185340	161462816	5
Aroclor-1254-2	(2)	137765424	144324716	151964748	159613020	142455180	147224618	6
Aroclor-1254-3	(3)	223111474	230822475	238332084	248809572	227429620	233701045	4
Aroclor-1254-4	(4)	144872408	150280927	154715092	162566192	149636640	152414252	4
Aroclor-1254-5	(5)	222142384	229320547	236798280	245922724	219797940	230796375	5
Decachlorobiphenyl		3224437400	3348442893	3455695460	3635268600	3249297200	3382628311	5
Tetrachloro-m-xylene		2568073960	2671571387	2735483240	2796189240	2386017000	2631466965	6
Aroclor-1268-1	(1)	433587545	470156204	480606830	499635636	468700980	470537439	5

CALIBRATION FACTOR OF INITIAL CALIBRATION

Aroclor-1268-2	(2)	394473975	427250947	436152456	450464948	410168000	423702065	5
Aroclor-1268-3	(3)	341277649	368810072	377986076	392360544	361163780	368319624	5
Aroclor-1268-4	(4)	146834989	160380248	163835508	170793916	157836920	159936316	6
Aroclor-1268-5	(5)	1093539582	1185840700	1196216218	1241444432	1117723940	1166952974	5
Decachlorobiphenyl		5085668100	5517473467	5647781640	5933945560	5533657000	5543705153	6
Tetrachloro-m-xylene		2291736150	2609303413	2671391600	2725314320	2333966400	2526342377	8

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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: LABE01

Lab Code: CHEM **Case No.:** O3645 **SAS No.:** O3645 **SDG NO.:** O3645

Instrument ID: ECD_Q **Date(s) Analyzed:** 07/01/2023 07/01/2023

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	3.61	3.51	3.71	60107800
		2	3.68	3.58	3.78	44932600
		3	3.75	3.65	3.85	140518000
		4	0.00			0
		5	0.00			0
Aroclor-1232	500	1	3.75	3.65	3.85	105601000
		2	4.25	4.15	4.35	59151200
		3	4.52	4.42	4.62	113081000
		4	4.67	4.57	4.77	56666400
		5	4.77	4.67	4.87	40050000
Aroclor-1262	500	1	6.68	6.58	6.78	304942000
		2	7.20	7.10	7.30	526714000
		3	7.48	7.38	7.58	352304000
		4	7.55	7.45	7.65	266720000
		5	8.06	7.96	8.16	177509000

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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: LABE01

Lab Code: CHEM **Case No.:** O3645 **SAS No.:** O3645 **SDG NO.:** O3645

Instrument ID: ECD_Q **Date(s) Analyzed:** 07/01/2023 07/01/2023

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	2.96	2.86	3.06	32996600
		2	3.04	2.94	3.14	25400000
		3	3.11	3.01	3.21	77090800
		4	0.00			0
		5	0.00			0
Aroclor-1232	500	1	3.11	3.01	3.21	57298600
		2	3.78	3.68	3.88	66555000
		3	3.94	3.84	4.04	34555000
		4	4.02	3.92	4.12	29739800
		5	4.18	4.08	4.28	35660800
Aroclor-1262	500	1	5.72	5.62	5.82	232472000
		2	5.97	5.87	6.07	216208000
		3	6.49	6.39	6.59	174328000
		4	6.55	6.45	6.65	322294000
		5	7.04	6.94	7.14	155115000

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CALIBRATION VERIFICATION SUMMARY

Contract: LABE01

Lab Code: CHEM **Case No.:** O3645 **SAS No.:** O3645 **SDG NO.:** O3645

Continuing Calib Date: 07/18/2023 **Initial Calibration Date(s):** 07/01/2023 07/01/2023

Continuing Calib Time: 10:46 **Initial Calibration Time(s):** 03:04 09:39

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

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Aroclor-1016-1	(1)	4.51	4.50	4.40	4.60	-0.01
Aroclor-1016-2	(2)	4.53	4.52	4.42	4.62	-0.01
Aroclor-1016-3	(3)	4.58	4.58	4.48	4.68	0.00
Aroclor-1016-4	(4)	4.67	4.67	4.57	4.77	0.00
Aroclor-1016-5	(5)	4.96	4.96	4.86	5.06	0.00
Aroclor-1260-1	(1)	6.06	6.06	5.96	6.16	0.00
Aroclor-1260-2	(2)	6.33	6.32	6.22	6.42	0.00
Aroclor-1260-3	(3)	6.68	6.68	6.58	6.78	0.00
Aroclor-1260-4	(4)	6.90	6.89	6.79	6.99	-0.01
Aroclor-1260-5	(5)	7.21	7.20	7.10	7.30	-0.01
Tetrachloro-m-xylene		3.41	3.40	3.30	3.50	0.00
Decachlorobiphenyl		8.59	8.58	8.48	8.68	-0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: LABE01

Lab Code: CHEM **Case No.:** O3645 **SAS No.:** O3645 **SDG NO.:** O3645

Continuing Calib Date: 07/18/2023 **Initial Calibration Date(s):** 07/01/2023 07/01/2023

Continuing Calib Time: 10:46 **Initial Calibration Time(s):** 03:04 09:39

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

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Aroclor-1016-1	(1)	3.76	3.76	3.66	3.86	0.00
Aroclor-1016-2	(2)	3.77	3.78	3.68	3.88	0.01
Aroclor-1016-3	(3)	3.93	3.94	3.84	4.04	0.01
Aroclor-1016-4	(4)	3.98	3.99	3.89	4.09	0.01
Aroclor-1016-5	(5)	4.18	4.18	4.08	4.28	0.00
Aroclor-1260-1	(1)	5.17	5.17	5.07	5.27	0.00
Aroclor-1260-2	(2)	5.36	5.36	5.26	5.46	0.00
Aroclor-1260-3	(3)	5.50	5.50	5.40	5.60	0.00
Aroclor-1260-4	(4)	5.96	5.97	5.87	6.07	0.01
Aroclor-1260-5	(5)	6.21	6.21	6.11	6.31	0.00
Tetrachloro-m-xylene		2.76	2.76	2.66	2.86	0.00
Decachlorobiphenyl		7.53	7.53	7.43	7.63	0.00

CALIBRATION VERIFICATION SUMMARY

Contract: LABE01

Lab Code: CHEM **Case No.:** O3645 **SAS No.:** O3645 **SDG NO.:** O3645

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 07/01/2023 07/01/2023

Client Sample No.: CCAL01 **Date Analyzed:** 07/18/2023

Lab Sample No.: AR1660CCC500 **Data File :** PQ062330.D **Time Analyzed:** 10:46

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.506	4.404	4.604	435.010	500.000	-13.0
Aroclor-1016-2	4.525	4.424	4.624	440.300	500.000	-11.9
Aroclor-1016-3	4.582	4.481	4.681	447.110	500.000	-10.6
Aroclor-1016-4	4.674	4.573	4.773	448.020	500.000	-10.4
Aroclor-1016-5	4.961	4.860	5.060	451.440	500.000	-9.7
Aroclor-1260-1	6.064	5.963	6.163	458.520	500.000	-8.3
Aroclor-1260-2	6.325	6.223	6.423	459.870	500.000	-8.0
Aroclor-1260-3	6.679	6.576	6.776	467.690	500.000	-6.5
Aroclor-1260-4	6.896	6.793	6.993	472.830	500.000	-5.4
Aroclor-1260-5	7.207	7.104	7.304	467.990	500.000	-6.4
Decachlorobiphenyl	8.588	8.484	8.684	45.830	50.000	-8.3
Tetrachloro-m-xylene	3.405	3.304	3.504	41.930	50.000	-16.1

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CALIBRATION VERIFICATION SUMMARY

Contract: LABE01

Lab Code: CHEM **Case No.:** O3645 **SAS No.:** O3645 **SDG NO.:** O3645

GC Column: ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 07/01/2023 07/01/2023

Client Sample No.: CCAL01 **Date Analyzed:** 07/18/2023

Lab Sample No.: AR1660CCC500 **Data File :** PQ062330.D **Time Analyzed:** 10:46

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	3.757	3.661	3.861	476.630	500.000	-4.7
Aroclor-1016-2	3.772	3.676	3.876	480.140	500.000	-4.0
Aroclor-1016-3	3.932	3.836	4.036	476.220	500.000	-4.8
Aroclor-1016-4	3.982	3.886	4.086	466.920	500.000	-6.6
Aroclor-1016-5	4.176	4.080	4.280	471.460	500.000	-5.7
Aroclor-1260-1	5.169	5.073	5.273	505.480	500.000	1.1
Aroclor-1260-2	5.360	5.263	5.463	497.450	500.000	-0.5
Aroclor-1260-3	5.500	5.404	5.604	508.590	500.000	1.7
Aroclor-1260-4	5.962	5.867	6.067	503.010	500.000	0.6
Aroclor-1260-5	6.210	6.113	6.313	507.420	500.000	1.5
Decachlorobiphenyl	7.526	7.429	7.629	49.070	50.000	-1.9
Tetrachloro-m-xylene	2.756	2.659	2.859	47.800	50.000	-4.4

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CALIBRATION VERIFICATION SUMMARY

Contract: LABE01

Lab Code: CHEM **Case No.:** O3645 **SAS No.:** O3645 **SDG NO.:** O3645

Continuing Calib Date: 07/18/2023 **Initial Calibration Date(s):** 07/01/2023 07/01/2023

Continuing Calib Time: 15:47 **Initial Calibration Time(s):** 03:04 09:39

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

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Aroclor-1016-1	(1)	4.50	4.50	4.40	4.60	0.00
Aroclor-1016-2	(2)	4.52	4.52	4.42	4.62	0.00
Aroclor-1016-3	(3)	4.58	4.58	4.48	4.68	0.00
Aroclor-1016-4	(4)	4.67	4.67	4.57	4.77	0.00
Aroclor-1016-5	(5)	4.96	4.96	4.86	5.06	0.00
Aroclor-1260-1	(1)	6.06	6.06	5.96	6.16	0.00
Aroclor-1260-2	(2)	6.32	6.32	6.22	6.42	0.00
Aroclor-1260-3	(3)	6.67	6.68	6.58	6.78	0.01
Aroclor-1260-4	(4)	6.89	6.89	6.79	6.99	0.00
Aroclor-1260-5	(5)	7.20	7.20	7.10	7.30	0.00
Tetrachloro-m-xylene		3.40	3.40	3.30	3.50	0.00
Decachlorobiphenyl		8.58	8.58	8.48	8.68	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: LABE01

Lab Code: CHEM **Case No.:** O3645 **SAS No.:** O3645 **SDG NO.:** O3645

Continuing Calib Date: 07/18/2023 **Initial Calibration Date(s):** 07/01/2023 07/01/2023

Continuing Calib Time: 15:47 **Initial Calibration Time(s):** 03:04 09:39

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

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Aroclor-1016-1	(1)	3.76	3.76	3.66	3.86	0.00
Aroclor-1016-2	(2)	3.77	3.78	3.68	3.88	0.01
Aroclor-1016-3	(3)	3.93	3.94	3.84	4.04	0.01
Aroclor-1016-4	(4)	3.98	3.99	3.89	4.09	0.01
Aroclor-1016-5	(5)	4.18	4.18	4.08	4.28	0.00
Aroclor-1260-1	(1)	5.17	5.17	5.07	5.27	0.00
Aroclor-1260-2	(2)	5.36	5.36	5.26	5.46	0.00
Aroclor-1260-3	(3)	5.50	5.50	5.40	5.60	0.00
Aroclor-1260-4	(4)	5.96	5.97	5.87	6.07	0.01
Aroclor-1260-5	(5)	6.21	6.21	6.11	6.31	0.00
Tetrachloro-m-xylene		2.76	2.76	2.66	2.86	0.00
Decachlorobiphenyl		7.53	7.53	7.43	7.63	0.00

CALIBRATION VERIFICATION SUMMARY

Contract: LABE01

Lab Code: CHEM **Case No.:** O3645 **SAS No.:** O3645 **SDG NO.:** O3645

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 07/01/2023 07/01/2023

Client Sample No.: CCAL02 **Date Analyzed:** 07/18/2023

Lab Sample No.: AR1660CCC500 **Data File :** PQ062344.D **Time Analyzed:** 15:47

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.502	4.404	4.604	455.760	500.000	-8.8
Aroclor-1016-2	4.521	4.424	4.624	449.340	500.000	-10.1
Aroclor-1016-3	4.579	4.481	4.681	451.930	500.000	-9.6
Aroclor-1016-4	4.671	4.573	4.773	454.100	500.000	-9.2
Aroclor-1016-5	4.958	4.860	5.060	464.250	500.000	-7.2
Aroclor-1260-1	6.060	5.963	6.163	459.120	500.000	-8.2
Aroclor-1260-2	6.321	6.223	6.423	456.430	500.000	-8.7
Aroclor-1260-3	6.674	6.576	6.776	465.460	500.000	-6.9
Aroclor-1260-4	6.891	6.793	6.993	469.240	500.000	-6.2
Aroclor-1260-5	7.203	7.104	7.304	472.820	500.000	-5.4
Decachlorobiphenyl	8.582	8.484	8.684	45.700	50.000	-8.6
Tetrachloro-m-xylene	3.402	3.304	3.504	44.040	50.000	-11.9

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CALIBRATION VERIFICATION SUMMARY

Contract: LABE01

Lab Code: CHEM **Case No.:** O3645 **SAS No.:** O3645 **SDG NO.:** O3645

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 07/01/2023 07/01/2023

Client Sample No.: CCAL02 **Date Analyzed:** 07/18/2023

Lab Sample No.: AR1660CCC500 **Data File :** PQ062344.D **Time Analyzed:** 15:47

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	3.757	3.661	3.861	474.100	500.000	-5.2
Aroclor-1016-2	3.772	3.676	3.876	482.260	500.000	-3.5
Aroclor-1016-3	3.932	3.836	4.036	474.720	500.000	-5.1
Aroclor-1016-4	3.982	3.886	4.086	471.680	500.000	-5.7
Aroclor-1016-5	4.176	4.080	4.280	466.770	500.000	-6.6
Aroclor-1260-1	5.169	5.073	5.273	484.360	500.000	-3.1
Aroclor-1260-2	5.360	5.263	5.463	476.990	500.000	-4.6
Aroclor-1260-3	5.500	5.404	5.604	489.360	500.000	-2.1
Aroclor-1260-4	5.962	5.867	6.067	498.090	500.000	-0.4
Aroclor-1260-5	6.209	6.113	6.313	501.990	500.000	0.4
Decachlorobiphenyl	7.525	7.429	7.629	48.730	50.000	-2.5
Tetrachloro-m-xylene	2.756	2.659	2.859	49.150	50.000	-1.7

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CALIBRATION VERIFICATION SUMMARY

Contract: LABE01

Lab Code: CHEM **Case No.:** O3645 **SAS No.:** O3645 **SDG NO.:** O3645

Continuing Calib Date: 07/18/2023 **Initial Calibration Date(s):** 07/01/2023 07/01/2023

Continuing Calib Time: 21:53 **Initial Calibration Time(s):** 03:04 09:39

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

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Aroclor-1016-1	(1)	4.50	4.50	4.40	4.60	0.00
Aroclor-1016-2	(2)	4.52	4.52	4.42	4.62	0.00
Aroclor-1016-3	(3)	4.58	4.58	4.48	4.68	0.00
Aroclor-1016-4	(4)	4.67	4.67	4.57	4.77	0.00
Aroclor-1016-5	(5)	4.96	4.96	4.86	5.06	0.00
Aroclor-1260-1	(1)	6.06	6.06	5.96	6.16	0.00
Aroclor-1260-2	(2)	6.32	6.32	6.22	6.42	0.00
Aroclor-1260-3	(3)	6.68	6.68	6.58	6.78	0.00
Aroclor-1260-4	(4)	6.89	6.89	6.79	6.99	0.00
Aroclor-1260-5	(5)	7.20	7.20	7.10	7.30	0.00
Tetrachloro-m-xylene		3.40	3.40	3.30	3.50	0.00
Decachlorobiphenyl		8.58	8.58	8.48	8.68	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: LABE01

Lab Code: CHEM **Case No.:** O3645 **SAS No.:** O3645 **SDG NO.:** O3645

Continuing Calib Date: 07/18/2023 **Initial Calibration Date(s):** 07/01/2023 07/01/2023

Continuing Calib Time: 21:53 **Initial Calibration Time(s):** 03:04 09:39

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

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Aroclor-1016-1	(1)	3.76	3.76	3.66	3.86	0.00
Aroclor-1016-2	(2)	3.77	3.78	3.68	3.88	0.01
Aroclor-1016-3	(3)	3.93	3.94	3.84	4.04	0.01
Aroclor-1016-4	(4)	3.98	3.99	3.89	4.09	0.01
Aroclor-1016-5	(5)	4.18	4.18	4.08	4.28	0.00
Aroclor-1260-1	(1)	5.17	5.17	5.07	5.27	0.00
Aroclor-1260-2	(2)	5.36	5.36	5.26	5.46	0.00
Aroclor-1260-3	(3)	5.50	5.50	5.40	5.60	0.00
Aroclor-1260-4	(4)	5.96	5.97	5.87	6.07	0.01
Aroclor-1260-5	(5)	6.21	6.21	6.11	6.31	0.00
Tetrachloro-m-xylene		2.76	2.76	2.66	2.86	0.00
Decachlorobiphenyl		7.52	7.53	7.43	7.63	0.01

CALIBRATION VERIFICATION SUMMARY

Contract: LABE01

Lab Code: CHEM **Case No.:** O3645 **SAS No.:** O3645 **SDG NO.:** O3645

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 07/01/2023 07/01/2023

Client Sample No.: CCAL03 **Date Analyzed:** 07/18/2023

Lab Sample No.: AR1660CCC500 **Data File :** PQ062366.D **Time Analyzed:** 21:53

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.502	4.404	4.604	468.090	500.000	-6.4
Aroclor-1016-2	4.521	4.424	4.624	462.940	500.000	-7.4
Aroclor-1016-3	4.579	4.481	4.681	461.900	500.000	-7.6
Aroclor-1016-4	4.671	4.573	4.773	467.300	500.000	-6.5
Aroclor-1016-5	4.958	4.860	5.060	470.260	500.000	-5.9
Aroclor-1260-1	6.061	5.963	6.163	469.520	500.000	-6.1
Aroclor-1260-2	6.321	6.223	6.423	468.840	500.000	-6.2
Aroclor-1260-3	6.675	6.576	6.776	472.030	500.000	-5.6
Aroclor-1260-4	6.891	6.793	6.993	474.710	500.000	-5.1
Aroclor-1260-5	7.203	7.104	7.304	486.590	500.000	-2.7
Decachlorobiphenyl	8.581	8.484	8.684	48.760	50.000	-2.5
Tetrachloro-m-xylene	3.401	3.304	3.504	45.410	50.000	-9.2

CALIBRATION VERIFICATION SUMMARY

Contract: LABE01

Lab Code: CHEM **Case No.:** O3645 **SAS No.:** O3645 **SDG NO.:** O3645

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 07/01/2023 07/01/2023

Client Sample No.: CCAL03 **Date Analyzed:** 07/18/2023

Lab Sample No.: AR1660CCC500 **Data File :** PQ062366.D **Time Analyzed:** 21:53

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	3.756	3.661	3.861	478.180	500.000	-4.4
Aroclor-1016-2	3.772	3.676	3.876	478.850	500.000	-4.2
Aroclor-1016-3	3.931	3.836	4.036	472.580	500.000	-5.5
Aroclor-1016-4	3.981	3.886	4.086	469.160	500.000	-6.2
Aroclor-1016-5	4.175	4.080	4.280	478.220	500.000	-4.4
Aroclor-1260-1	5.169	5.073	5.273	499.800	500.000	0.0
Aroclor-1260-2	5.359	5.263	5.463	495.400	500.000	-0.9
Aroclor-1260-3	5.500	5.404	5.604	500.630	500.000	0.1
Aroclor-1260-4	5.961	5.867	6.067	507.020	500.000	1.4
Aroclor-1260-5	6.208	6.113	6.313	515.780	500.000	3.2
Decachlorobiphenyl	7.524	7.429	7.629	50.960	50.000	1.9
Tetrachloro-m-xylene	2.755	2.659	2.859	50.060	50.000	0.1

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CALIBRATION VERIFICATION SUMMARY

Contract: LABE01

Lab Code: CHEM **Case No.:** O3645 **SAS No.:** O3645 **SDG NO.:** O3645

Continuing Calib Date: 07/19/2023 **Initial Calibration Date(s):** 07/01/2023 07/01/2023

Continuing Calib Time: 01:03 **Initial Calibration Time(s):** 03:04 09:39

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

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Aroclor-1016-1	(1)	4.50	4.50	4.40	4.60	0.00
Aroclor-1016-2	(2)	4.52	4.52	4.42	4.62	0.00
Aroclor-1016-3	(3)	4.58	4.58	4.48	4.68	0.00
Aroclor-1016-4	(4)	4.67	4.67	4.57	4.77	0.00
Aroclor-1016-5	(5)	4.96	4.96	4.86	5.06	0.00
Aroclor-1260-1	(1)	6.06	6.06	5.96	6.16	0.00
Aroclor-1260-2	(2)	6.32	6.32	6.22	6.42	0.00
Aroclor-1260-3	(3)	6.67	6.68	6.58	6.78	0.01
Aroclor-1260-4	(4)	6.89	6.89	6.79	6.99	0.00
Aroclor-1260-5	(5)	7.20	7.20	7.10	7.30	0.00
Tetrachloro-m-xylene		3.40	3.40	3.30	3.50	0.00
Decachlorobiphenyl		8.58	8.58	8.48	8.68	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: LABE01

Lab Code: CHEM **Case No.:** O3645 **SAS No.:** O3645 **SDG NO.:** O3645

Continuing Calib Date: 07/19/2023 **Initial Calibration Date(s):** 07/01/2023 07/01/2023

Continuing Calib Time: 01:03 **Initial Calibration Time(s):** 03:04 09:39

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Aroclor-1016-1 (1)	3.76	3.76	3.66	3.86	0.00
Aroclor-1016-2 (2)	3.77	3.78	3.68	3.88	0.01
Aroclor-1016-3 (3)	3.93	3.94	3.84	4.04	0.01
Aroclor-1016-4 (4)	3.98	3.99	3.89	4.09	0.01
Aroclor-1016-5 (5)	4.18	4.18	4.08	4.28	0.00
Aroclor-1260-1 (1)	5.17	5.17	5.07	5.27	0.00
Aroclor-1260-2 (2)	5.36	5.36	5.26	5.46	0.00
Aroclor-1260-3 (3)	5.50	5.50	5.40	5.60	0.00
Aroclor-1260-4 (4)	5.96	5.97	5.87	6.07	0.01
Aroclor-1260-5 (5)	6.21	6.21	6.11	6.31	0.00
Tetrachloro-m-xylene	2.75	2.76	2.66	2.86	0.01
Decachlorobiphenyl	7.52	7.53	7.43	7.63	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: LABE01

Lab Code: CHEM **Case No.:** O3645 **SAS No.:** O3645 **SDG NO.:** O3645

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 07/01/2023 07/01/2023

Client Sample No.: CCAL04 **Date Analyzed:** 07/19/2023

Lab Sample No.: AR1660CCC500 **Data File :** PQ062375.D **Time Analyzed:** 01:03

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.502	4.404	4.604	473.080	500.000	-5.4
Aroclor-1016-2	4.521	4.424	4.624	474.550	500.000	-5.1
Aroclor-1016-3	4.579	4.481	4.681	479.470	500.000	-4.1
Aroclor-1016-4	4.671	4.573	4.773	474.200	500.000	-5.2
Aroclor-1016-5	4.958	4.860	5.060	479.590	500.000	-4.1
Aroclor-1260-1	6.060	5.963	6.163	476.510	500.000	-4.7
Aroclor-1260-2	6.321	6.223	6.423	477.840	500.000	-4.4
Aroclor-1260-3	6.674	6.576	6.776	485.550	500.000	-2.9
Aroclor-1260-4	6.892	6.793	6.993	490.150	500.000	-2.0
Aroclor-1260-5	7.203	7.104	7.304	500.690	500.000	0.1
Decachlorobiphenyl	8.581	8.484	8.684	50.190	50.000	0.4
Tetrachloro-m-xylene	3.402	3.304	3.504	46.580	50.000	-6.8

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CALIBRATION VERIFICATION SUMMARY

Contract: LABE01

Lab Code: CHEM **Case No.:** O3645 **SAS No.:** O3645 **SDG NO.:** O3645

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 07/01/2023 07/01/2023

Client Sample No.: CCAL04 **Date Analyzed:** 07/19/2023

Lab Sample No.: AR1660CCC500 **Data File :** PQ062375.D **Time Analyzed:** 01:03

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	3.757	3.661	3.861	493.100	500.000	-1.4
Aroclor-1016-2	3.772	3.676	3.876	495.660	500.000	-0.9
Aroclor-1016-3	3.932	3.836	4.036	488.310	500.000	-2.3
Aroclor-1016-4	3.981	3.886	4.086	484.780	500.000	-3.0
Aroclor-1016-5	4.176	4.080	4.280	491.390	500.000	-1.7
Aroclor-1260-1	5.168	5.073	5.273	500.750	500.000	0.2
Aroclor-1260-2	5.360	5.263	5.463	495.220	500.000	-1.0
Aroclor-1260-3	5.500	5.404	5.604	498.740	500.000	-0.3
Aroclor-1260-4	5.962	5.867	6.067	506.020	500.000	1.2
Aroclor-1260-5	6.208	6.113	6.313	521.170	500.000	4.2
Decachlorobiphenyl	7.524	7.429	7.629	54.260	50.000	8.5
Tetrachloro-m-xylene	2.754	2.659	2.859	52.260	50.000	4.5

Analytical Sequence

Client: LaBella Associates P.C. **SDG No.:** O3645

Project: Mackenna Parcels **Instrument ID:** ECD_Q

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 07/01/2023 07/01/2023

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

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCB RT #	TCX RT #
I.BLK	I.BLK	07/01/2023	02:49	PQ061834.D	8.59	3.40
AR1660ICC1000	AR1660ICC1000	07/01/2023	03:04	PQ061835.D	8.58	3.41
AR1660ICC750	AR1660ICC750	07/01/2023	03:18	PQ061836.D	8.59	3.41
AR1660ICC500	AR1660ICC500	07/01/2023	03:33	PQ061837.D	8.58	3.40
AR1660ICC250	AR1660ICC250	07/01/2023	03:48	PQ061838.D	8.58	3.41
AR1660ICC050	AR1660ICC050	07/01/2023	04:02	PQ061839.D	8.58	3.40
AR1221ICC500	AR1221ICC500	07/01/2023	04:17	PQ061840.D	8.58	3.40
AR1232ICC500	AR1232ICC500	07/01/2023	04:31	PQ061841.D	8.58	3.40
AR1242ICC1000	AR1242ICC1000	07/01/2023	04:46	PQ061842.D	8.58	3.40
AR1242ICC750	AR1242ICC750	07/01/2023	05:01	PQ061843.D	8.58	3.41
AR1242ICC500	AR1242ICC500	07/01/2023	05:15	PQ061844.D	8.58	3.40
AR1242ICC250	AR1242ICC250	07/01/2023	05:30	PQ061845.D	8.58	3.40
AR1242ICC050	AR1242ICC050	07/01/2023	05:45	PQ061846.D	8.58	3.40
AR1248ICC1000	AR1248ICC1000	07/01/2023	05:59	PQ061847.D	8.58	3.40
AR1248ICC750	AR1248ICC750	07/01/2023	06:14	PQ061848.D	8.60	3.42
AR1248ICC500	AR1248ICC500	07/01/2023	06:28	PQ061849.D	8.58	3.40
AR1248ICC250	AR1248ICC250	07/01/2023	06:43	PQ061850.D	8.58	3.40
AR1248ICC050	AR1248ICC050	07/01/2023	06:58	PQ061851.D	8.58	3.40
AR1254ICC1000	AR1254ICC1000	07/01/2023	07:12	PQ061852.D	8.58	3.40
AR1254ICC750	AR1254ICC750	07/01/2023	07:27	PQ061853.D	8.58	3.40
AR1254ICC500	AR1254ICC500	07/01/2023	07:42	PQ061854.D	8.58	3.40
AR1254ICC250	AR1254ICC250	07/01/2023	07:56	PQ061855.D	8.58	3.40
AR1254ICC050	AR1254ICC050	07/01/2023	08:11	PQ061856.D	8.58	3.40
AR1262ICC500	AR1262ICC500	07/01/2023	08:25	PQ061857.D	8.58	3.40
AR1268ICC1000	AR1268ICC1000	07/01/2023	08:40	PQ061858.D	8.58	3.40
AR1268ICC750	AR1268ICC750	07/01/2023	08:55	PQ061859.D	8.58	3.40
AR1268ICC500	AR1268ICC500	07/01/2023	09:09	PQ061860.D	8.58	3.40
AR1268ICC250	AR1268ICC250	07/01/2023	09:24	PQ061861.D	8.58	3.40
AR1268ICC050	AR1268ICC050	07/01/2023	09:39	PQ061862.D	8.58	3.40
AR1660CCC500	AR1660CCC500	07/18/2023	10:46	PQ062330.D	8.59	3.41
I.BLK	I.BLK	07/18/2023	11:44	PQ062334.D	8.58	3.40
PB154254BL	PB154254BL	07/18/2023	13:20	PQ062335.D	8.59	3.41
PB154254BS	PB154254BS	07/18/2023	13:35	PQ062336.D	8.59	3.40
AR1660CCC500	AR1660CCC500	07/18/2023	15:47	PQ062344.D	8.58	3.40
I.BLK	I.BLK	07/18/2023	16:16	PQ062346.D	8.58	3.40
SB-02-(3-5)	O3645-01	07/18/2023	17:29	PQ062351.D	8.58	3.40
SB-04-(1-5)	O3645-02	07/18/2023	17:44	PQ062352.D	8.58	3.40
SB-07-(1-3)	O3645-03	07/18/2023	17:58	PQ062353.D	8.58	3.40
SB-08-(0.5-2.0)	O3645-04	07/18/2023	18:13	PQ062354.D	8.58	3.40
SB-09-(2.0-4.0)	O3645-05	07/18/2023	18:28	PQ062355.D	8.58	3.40
SB-10-(0.5-2.0)	O3645-06	07/18/2023	18:42	PQ062356.D	8.58	3.40
DUP	O3645-07	07/18/2023	18:57	PQ062357.D	8.58	3.40
SB-04-(1-5)MS	O3645-09MS	07/18/2023	19:12	PQ062358.D	8.58	3.40
SB-04-(1-5)MSD	O3645-10MSD	07/18/2023	19:26	PQ062359.D	8.58	3.40
AR1660CCC500	AR1660CCC500	07/18/2023	21:53	PQ062366.D	8.58	3.40

Analytical Sequence

I.BLK	I.BLK	07/18/2023	22:22	PQ062368.D	8.58	3.40
PB154263BL	PB154263BL	07/18/2023	23:06	PQ062370.D	8.58	3.40
PB154263BS	PB154263BS	07/18/2023	23:20	PQ062371.D	8.58	3.40
PB154263BSD	PB154263BSD	07/18/2023	23:35	PQ062372.D	8.58	3.40
RINSATE-BLANK	O3645-08	07/19/2023	00:04	PQ062374.D	8.58	3.40
AR1660CCC500	AR1660CCC500	07/19/2023	01:03	PQ062375.D	8.58	3.40
I.BLK	I.BLK	07/19/2023	01:32	PQ062377.D	8.58	3.40

Analytical Sequence

Client: LaBella Associates P.C. **SDG No.:** O3645

Project: Mackenna Parcels **Instrument ID:** ECD_Q

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 07/01/2023 07/01/2023

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

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCB RT #	TCX RT #
I.BLK	I.BLK	07/01/2023	02:49	PQ061834.D	7.53	2.76
AR1660ICC1000	AR1660ICC1000	07/01/2023	03:04	PQ061835.D	7.53	2.76
AR1660ICC750	AR1660ICC750	07/01/2023	03:18	PQ061836.D	7.53	2.76
AR1660ICC500	AR1660ICC500	07/01/2023	03:33	PQ061837.D	7.53	2.76
AR1660ICC250	AR1660ICC250	07/01/2023	03:48	PQ061838.D	7.53	2.76
AR1660ICC050	AR1660ICC050	07/01/2023	04:02	PQ061839.D	7.53	2.76
AR1221ICC500	AR1221ICC500	07/01/2023	04:17	PQ061840.D	7.53	2.76
AR1232ICC500	AR1232ICC500	07/01/2023	04:31	PQ061841.D	7.53	2.76
AR1242ICC1000	AR1242ICC1000	07/01/2023	04:46	PQ061842.D	7.53	2.76
AR1242ICC750	AR1242ICC750	07/01/2023	05:01	PQ061843.D	7.53	2.76
AR1242ICC500	AR1242ICC500	07/01/2023	05:15	PQ061844.D	7.53	2.76
AR1242ICC250	AR1242ICC250	07/01/2023	05:30	PQ061845.D	7.53	2.76
AR1242ICC050	AR1242ICC050	07/01/2023	05:45	PQ061846.D	7.53	2.76
AR1248ICC1000	AR1248ICC1000	07/01/2023	05:59	PQ061847.D	7.53	2.76
AR1248ICC750	AR1248ICC750	07/01/2023	06:14	PQ061848.D	7.53	2.76
AR1248ICC500	AR1248ICC500	07/01/2023	06:28	PQ061849.D	7.53	2.76
AR1248ICC250	AR1248ICC250	07/01/2023	06:43	PQ061850.D	7.53	2.76
AR1248ICC050	AR1248ICC050	07/01/2023	06:58	PQ061851.D	7.53	2.76
AR1254ICC1000	AR1254ICC1000	07/01/2023	07:12	PQ061852.D	7.53	2.76
AR1254ICC750	AR1254ICC750	07/01/2023	07:27	PQ061853.D	7.53	2.76
AR1254ICC500	AR1254ICC500	07/01/2023	07:42	PQ061854.D	7.53	2.76
AR1254ICC250	AR1254ICC250	07/01/2023	07:56	PQ061855.D	7.53	2.76
AR1254ICC050	AR1254ICC050	07/01/2023	08:11	PQ061856.D	7.53	2.76
AR1262ICC500	AR1262ICC500	07/01/2023	08:25	PQ061857.D	7.53	2.76
AR1268ICC1000	AR1268ICC1000	07/01/2023	08:40	PQ061858.D	7.53	2.76
AR1268ICC750	AR1268ICC750	07/01/2023	08:55	PQ061859.D	7.53	2.76
AR1268ICC500	AR1268ICC500	07/01/2023	09:09	PQ061860.D	7.53	2.76
AR1268ICC250	AR1268ICC250	07/01/2023	09:24	PQ061861.D	7.53	2.76
AR1268ICC050	AR1268ICC050	07/01/2023	09:39	PQ061862.D	7.53	2.76
AR1660CCC500	AR1660CCC500	07/18/2023	10:46	PQ062330.D	7.53	2.76
I.BLK	I.BLK	07/18/2023	11:44	PQ062334.D	7.53	2.76
PB154254BL	PB154254BL	07/18/2023	13:20	PQ062335.D	7.53	2.76
PB154254BS	PB154254BS	07/18/2023	13:35	PQ062336.D	7.53	2.76
AR1660CCC500	AR1660CCC500	07/18/2023	15:47	PQ062344.D	7.53	2.76
I.BLK	I.BLK	07/18/2023	16:16	PQ062346.D	7.53	2.76
SB-02-(3-5)	O3645-01	07/18/2023	17:29	PQ062351.D	7.53	2.76
SB-04-(1-5)	O3645-02	07/18/2023	17:44	PQ062352.D	7.53	2.76
SB-07-(1-3)	O3645-03	07/18/2023	17:58	PQ062353.D	7.53	2.76
SB-08-(0.5-2.0)	O3645-04	07/18/2023	18:13	PQ062354.D	7.53	2.76
SB-09-(2.0-4.0)	O3645-05	07/18/2023	18:28	PQ062355.D	7.53	2.76
SB-10-(0.5-2.0)	O3645-06	07/18/2023	18:42	PQ062356.D	7.52	2.76
DUP	O3645-07	07/18/2023	18:57	PQ062357.D	7.53	2.76
SB-04-(1-5)MS	O3645-09MS	07/18/2023	19:12	PQ062358.D	7.53	2.76
SB-04-(1-5)MSD	O3645-10MSD	07/18/2023	19:26	PQ062359.D	7.52	2.76
AR1660CCC500	AR1660CCC500	07/18/2023	21:53	PQ062366.D	7.52	2.76

Analytical Sequence

I.BLK	I.BLK	07/18/2023	22:22	PQ062368.D	7.52	2.76
PB154263BL	PB154263BL	07/18/2023	23:06	PQ062370.D	7.52	2.76
PB154263BS	PB154263BS	07/18/2023	23:20	PQ062371.D	7.52	2.76
PB154263BSD	PB154263BSD	07/18/2023	23:35	PQ062372.D	7.52	2.76
RINSATE-BLANK	O3645-08	07/19/2023	00:04	PQ062374.D	7.52	2.76
AR1660CCC500	AR1660CCC500	07/19/2023	01:03	PQ062375.D	7.52	2.75
I.BLK	I.BLK	07/19/2023	01:32	PQ062377.D	7.52	2.76

QC SAMPLE DATA

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	
Project:	Mackenna Parcels	Date Received:	
Client Sample ID:	PB154254BL	SDG No.:	O3645
Lab Sample ID:	PB154254BL	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	100 Decanted:
Sample Wt/Vol:	30.02 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB Group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PQ062335.D	1	07/18/23 09:10	07/18/23 13:20	PB154254

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	17.0	U	3.60	17.0	ug/kg
11104-28-2	Aroclor-1221	17.0	U	5.90	17.0	ug/kg
11141-16-5	Aroclor-1232	17.0	U	4.50	17.0	ug/kg
53469-21-9	Aroclor-1242	17.0	U	3.10	17.0	ug/kg
12672-29-6	Aroclor-1248	17.0	U	2.80	17.0	ug/kg
11097-69-1	Aroclor-1254	17.0	U	3.80	17.0	ug/kg
37324-23-5	Aroclor-1262	17.0	U	2.70	17.0	ug/kg
11100-14-4	Aroclor-1268	17.0	U	3.30	17.0	ug/kg
11096-82-5	Aroclor-1260	17.0	U	3.30	17.0	ug/kg
Total PCBs	Total PCBs	17.0	U	5.70	17.0	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	19.1		40 - 162	96%	SPK: 20
2051-24-3	Decachlorobiphenyl	20.4		32 - 176	102%	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

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	
Project:	Mackenna Parcels	Date Received:	
Client Sample ID:	PB154263BL	SDG No.:	O3645
Lab Sample ID:	PB154263BL	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB Group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PQ062370.D	1	07/18/23 08:50	07/18/23 23:06	PB154263

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.50	U	0.15	0.50	ug/L
11104-28-2	Aroclor-1221	0.50	U	0.22	0.50	ug/L
11141-16-5	Aroclor-1232	0.50	U	0.18	0.50	ug/L
53469-21-9	Aroclor-1242	0.50	U	0.18	0.50	ug/L
12672-29-6	Aroclor-1248	0.50	U	0.15	0.50	ug/L
11097-69-1	Aroclor-1254	0.50	U	0.15	0.50	ug/L
37324-23-5	Aroclor-1262	0.50	U	0.16	0.50	ug/L
11100-14-4	Aroclor-1268	0.50	U	0.13	0.50	ug/L
11096-82-5	Aroclor-1260	0.50	U	0.16	0.50	ug/L
Total PCBs	Total PCBs	0.50	U	0.22	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	19.5		21 - 155	98%	SPK: 20
2051-24-3	Decachlorobiphenyl	21.1		10 - 173	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

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Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/01/23
Project:	Mackenna Parcels	Date Received:	07/01/23
Client Sample ID:	PIBLK-PQ061834.D	SDG No.:	O3645
Lab Sample ID:	I.BLK-PQ061834.D	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB Group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	5030		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PQ061834.D	1		07/01/23	pq070123

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.50	U	0.15	0.50	ug/L
11104-28-2	Aroclor-1221	0.50	U	0.22	0.50	ug/L
11141-16-5	Aroclor-1232	0.50	U	0.18	0.50	ug/L
53469-21-9	Aroclor-1242	0.50	U	0.18	0.50	ug/L
12672-29-6	Aroclor-1248	0.50	U	0.15	0.50	ug/L
11097-69-1	Aroclor-1254	0.50	U	0.15	0.50	ug/L
11096-82-5	Aroclor-1260	0.50	U	0.16	0.50	ug/L
37324-23-5	Aroclor-1262	0.50	U	0.16	0.50	ug/L
11100-14-4	Aroclor-1268	0.50	U	0.13	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	20.0		60 - 140	100%	SPK: 20
2051-24-3	Decachlorobiphenyl	20.5		60 - 140	102%	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:	LaBella Associates P.C.	Date Collected:	07/18/23
Project:	Mackenna Parcels	Date Received:	07/18/23
Client Sample ID:	PIBLK-PQ062334.D	SDG No.:	O3645
Lab Sample ID:	I.BLK-PQ062334.D	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB Group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	5030		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PQ062334.D	1		07/18/23	PQ071823

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.50	U	0.15	0.50	ug/L
11104-28-2	Aroclor-1221	0.50	U	0.22	0.50	ug/L
11141-16-5	Aroclor-1232	0.50	U	0.18	0.50	ug/L
53469-21-9	Aroclor-1242	0.50	U	0.18	0.50	ug/L
12672-29-6	Aroclor-1248	0.50	U	0.15	0.50	ug/L
11097-69-1	Aroclor-1254	0.50	U	0.15	0.50	ug/L
11096-82-5	Aroclor-1260	0.50	U	0.16	0.50	ug/L
37324-23-5	Aroclor-1262	0.50	U	0.16	0.50	ug/L
11100-14-4	Aroclor-1268	0.50	U	0.13	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	15.0		60 - 140	75%	SPK: 20
2051-24-3	Decachlorobiphenyl	17.2		60 - 140	86%	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:	LaBella Associates P.C.	Date Collected:	07/18/23
Project:	Mackenna Parcels	Date Received:	07/18/23
Client Sample ID:	PIBLK-PQ062346.D	SDG No.:	O3645
Lab Sample ID:	I.BLK-PQ062346.D	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB Group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	5030		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PQ062346.D	1		07/18/23	PQ071823

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.50	U	0.15	0.50	ug/L
11104-28-2	Aroclor-1221	0.50	U	0.22	0.50	ug/L
11141-16-5	Aroclor-1232	0.50	U	0.18	0.50	ug/L
53469-21-9	Aroclor-1242	0.50	U	0.18	0.50	ug/L
12672-29-6	Aroclor-1248	0.50	U	0.15	0.50	ug/L
11097-69-1	Aroclor-1254	0.50	U	0.15	0.50	ug/L
11096-82-5	Aroclor-1260	0.50	U	0.16	0.50	ug/L
37324-23-5	Aroclor-1262	0.50	U	0.16	0.50	ug/L
11100-14-4	Aroclor-1268	0.50	U	0.13	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	15.9		60 - 140	79%	SPK: 20
2051-24-3	Decachlorobiphenyl	17.1		60 - 140	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:	LaBella Associates P.C.	Date Collected:	07/18/23
Project:	Mackenna Parcels	Date Received:	07/18/23
Client Sample ID:	PIBLK-PQ062368.D	SDG No.:	O3645
Lab Sample ID:	I.BLK-PQ062368.D	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB Group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	5030		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PQ062368.D	1		07/18/23	PQ071823

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.50	U	0.15	0.50	ug/L
11104-28-2	Aroclor-1221	0.50	U	0.22	0.50	ug/L
11141-16-5	Aroclor-1232	0.50	U	0.18	0.50	ug/L
53469-21-9	Aroclor-1242	0.50	U	0.18	0.50	ug/L
12672-29-6	Aroclor-1248	0.50	U	0.15	0.50	ug/L
11097-69-1	Aroclor-1254	0.50	U	0.15	0.50	ug/L
11096-82-5	Aroclor-1260	0.50	U	0.16	0.50	ug/L
37324-23-5	Aroclor-1262	0.50	U	0.16	0.50	ug/L
11100-14-4	Aroclor-1268	0.50	U	0.13	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	16.7		60 - 140	84%	SPK: 20
2051-24-3	Decachlorobiphenyl	18.3		60 - 140	92%	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:	LaBella Associates P.C.	Date Collected:	07/19/23
Project:	Mackenna Parcels	Date Received:	07/19/23
Client Sample ID:	PIBLK-PQ062377.D	SDG No.:	O3645
Lab Sample ID:	I.BLK-PQ062377.D	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB Group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	5030		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PQ062377.D	1		07/19/23	PQ071823

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.50	U	0.15	0.50	ug/L
11104-28-2	Aroclor-1221	0.50	U	0.22	0.50	ug/L
11141-16-5	Aroclor-1232	0.50	U	0.18	0.50	ug/L
53469-21-9	Aroclor-1242	0.50	U	0.18	0.50	ug/L
12672-29-6	Aroclor-1248	0.50	U	0.15	0.50	ug/L
11097-69-1	Aroclor-1254	0.50	U	0.15	0.50	ug/L
11096-82-5	Aroclor-1260	0.50	U	0.16	0.50	ug/L
37324-23-5	Aroclor-1262	0.50	U	0.16	0.50	ug/L
11100-14-4	Aroclor-1268	0.50	U	0.13	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	16.9		60 - 140	84%	SPK: 20
2051-24-3	Decachlorobiphenyl	19.1		60 - 140	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

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Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	
Project:	Mackenna Parcels	Date Received:	
Client Sample ID:	PB154254BS	SDG No.:	O3645
Lab Sample ID:	PB154254BS	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	100 Decanted:
Sample Wt/Vol:	30 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB Group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PQ062336.D	1	07/18/23 09:10	07/18/23 13:35	PB154254

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	143		3.60	17.0	ug/kg
11104-28-2	Aroclor-1221	17.0	U	5.90	17.0	ug/kg
11141-16-5	Aroclor-1232	17.0	U	4.50	17.0	ug/kg
53469-21-9	Aroclor-1242	17.0	U	3.10	17.0	ug/kg
12672-29-6	Aroclor-1248	17.0	U	2.80	17.0	ug/kg
11097-69-1	Aroclor-1254	17.0	U	3.80	17.0	ug/kg
37324-23-5	Aroclor-1262	17.0	U	2.70	17.0	ug/kg
11100-14-4	Aroclor-1268	17.0	U	3.30	17.0	ug/kg
11096-82-5	Aroclor-1260	151		3.30	17.0	ug/kg
Total PCBs	Total PCBs	294		6.90	17.0	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	18.2		40 - 162	91%	SPK: 20
2051-24-3	Decachlorobiphenyl	19.8		32 - 176	99%	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:	LaBella Associates P.C.	Date Collected:	
Project:	Mackenna Parcels	Date Received:	
Client Sample ID:	PB154263BS	SDG No.:	O3645
Lab Sample ID:	PB154263BS	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB Group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PQ062371.D	1	07/18/23 08:50	07/18/23 23:20	PB154263

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	4.40		0.15	0.50	ug/L
11104-28-2	Aroclor-1221	0.50	U	0.22	0.50	ug/L
11141-16-5	Aroclor-1232	0.50	U	0.18	0.50	ug/L
53469-21-9	Aroclor-1242	0.50	U	0.18	0.50	ug/L
12672-29-6	Aroclor-1248	0.50	U	0.15	0.50	ug/L
11097-69-1	Aroclor-1254	0.50	U	0.15	0.50	ug/L
37324-23-5	Aroclor-1262	0.50	U	0.16	0.50	ug/L
11100-14-4	Aroclor-1268	0.50	U	0.13	0.50	ug/L
11096-82-5	Aroclor-1260	4.60		0.16	0.50	ug/L
Total PCBs	Total PCBs	9.00		0.31	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	18.9		21 - 155	95%	SPK: 20
2051-24-3	Decachlorobiphenyl	20.6		10 - 173	103%	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:	LaBella Associates P.C.	Date Collected:	
Project:	Mackenna Parcels	Date Received:	
Client Sample ID:	PB154263BSD	SDG No.:	O3645
Lab Sample ID:	PB154263BSD	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB Group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PQ062372.D	1	07/18/23 08:50	07/18/23 23:35	PB154263

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	4.30		0.15	0.50	ug/L
11104-28-2	Aroclor-1221	0.50	U	0.22	0.50	ug/L
11141-16-5	Aroclor-1232	0.50	U	0.18	0.50	ug/L
53469-21-9	Aroclor-1242	0.50	U	0.18	0.50	ug/L
12672-29-6	Aroclor-1248	0.50	U	0.15	0.50	ug/L
11097-69-1	Aroclor-1254	0.50	U	0.15	0.50	ug/L
37324-23-5	Aroclor-1262	0.50	U	0.16	0.50	ug/L
11100-14-4	Aroclor-1268	0.50	U	0.13	0.50	ug/L
11096-82-5	Aroclor-1260	4.60		0.16	0.50	ug/L
Total PCBs	Total PCBs	8.90		0.31	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	18.5		21 - 155	93%	SPK: 20
2051-24-3	Decachlorobiphenyl	21.0		10 - 173	105%	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:	LaBella Associates P.C.	Date Collected:	07/12/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-04-(1-5)MS	SDG No.:	O3645
Lab Sample ID:	O3645-09MS	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	91.3 Decanted:
Sample Wt/Vol:	30.06 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB Group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PQ062358.D	1	07/18/23 09:10	07/18/23 19:12	PB154254

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	182		3.90	18.6	ug/kg
11104-28-2	Aroclor-1221	18.6	U	6.40	18.6	ug/kg
11141-16-5	Aroclor-1232	18.6	U	4.90	18.6	ug/kg
53469-21-9	Aroclor-1242	18.6	U	3.40	18.6	ug/kg
12672-29-6	Aroclor-1248	18.6	U	3.10	18.6	ug/kg
11097-69-1	Aroclor-1254	18.6	U	4.10	18.6	ug/kg
37324-23-5	Aroclor-1262	18.6	U	3.00	18.6	ug/kg
11100-14-4	Aroclor-1268	18.6	U	3.60	18.6	ug/kg
11096-82-5	Aroclor-1260	183		3.70	18.6	ug/kg
Total PCBs	Total PCBs	365		7.60	18.6	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	20.3		40 - 162	102%	SPK: 20
2051-24-3	Decachlorobiphenyl	19.7		32 - 176	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:	LaBella Associates P.C.	Date Collected:	07/12/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-04-(1-5)MSD	SDG No.:	O3645
Lab Sample ID:	O3645-10MSD	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	91.3 Decanted:
Sample Wt/Vol:	30.08 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB Group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PQ062359.D	1	07/18/23 09:10	07/18/23 19:26	PB154254

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	184		3.90	18.6	ug/kg
11104-28-2	Aroclor-1221	18.6	U	6.40	18.6	ug/kg
11141-16-5	Aroclor-1232	18.6	U	4.90	18.6	ug/kg
53469-21-9	Aroclor-1242	18.6	U	3.40	18.6	ug/kg
12672-29-6	Aroclor-1248	18.6	U	3.10	18.6	ug/kg
11097-69-1	Aroclor-1254	18.6	U	4.10	18.6	ug/kg
37324-23-5	Aroclor-1262	18.6	U	3.00	18.6	ug/kg
11100-14-4	Aroclor-1268	18.6	U	3.60	18.6	ug/kg
11096-82-5	Aroclor-1260	187		3.60	18.6	ug/kg
Total PCBs	Total PCBs	371		7.50	18.6	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	20.3		40 - 162	101%	SPK: 20
2051-24-3	Decachlorobiphenyl	19.7		32 - 176	99%	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:	O3645	**OrderDate:**	7/17/2023 9:31:59 AM
Client:	LaBella Associates P.C.	**Project:**	Mackenna Parcels
Contact:	Andrew T. Benkleman	**Location:**	I11,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
O3645-01	**SB-02-(3-5)**	**SOIL**			**07/12/23**			**07/17/23**
			Mercury	7471B		07/18/23	07/19/23	
			Metals Group5	6010D		07/18/23	07/19/23	
O3645-02	**SB-04-(1-5)**	**SOIL**			**07/12/23**			**07/17/23**
			Mercury	7471B		07/18/23	07/19/23	
			Metals Group5	6010D		07/18/23	07/19/23	
O3645-03	**SB-07-(1-3)**	**SOIL**			**07/13/23**			**07/17/23**
			Mercury	7471B		07/18/23	07/19/23	
			Metals Group5	6010D		07/18/23	07/19/23	
O3645-04	**SB-08-(0.5-2.0)**	**SOIL**			**07/13/23**			**07/17/23**
			Mercury	7471B		07/18/23	07/19/23	
			Metals Group5	6010D		07/18/23	07/19/23	
O3645-05	**SB-09-(2.0-4.0)**	**SOIL**			**07/13/23**			**07/17/23**
			Mercury	7471B		07/18/23	07/19/23	
			Metals Group5	6010D		07/18/23	07/19/23	
O3645-06	**SB-10-(0.5-2.0)**	**SOIL**			**07/13/23**			**07/17/23**
			Mercury	7471B		07/18/23	07/19/23	
			Metals Group5	6010D		07/18/23	07/19/23	
O3645-07	**DUP**	**SOIL**			**07/12/23**			**07/17/23**
			Mercury	7471B		07/18/23	07/19/23	
			Metals Group5	6010D		07/18/23	07/19/23	
O3645-08	**RINSATE-BLANK**	**Water**			**07/12/23**			**07/17/23**
			Mercury	7470A		07/18/23	07/19/23	
			Metals Group5	6010D		07/17/23	07/31/23	

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Hit Summary Sheet
SW-846

SDG No.: O3645 **Order ID:** O3645

Client: LaBella Associates P.C. **Project ID:** Mackenna Parcels

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : SB-02-(3-5)								
O3645-01	SB-02-(3-5)	SOIL	Arsenic	1.27		0.33	1.14	mg/Kg
O3645-01	SB-02-(3-5)	SOIL	Barium	32.2		0.73	5.68	mg/Kg
O3645-01	SB-02-(3-5)	SOIL	Beryllium	0.28	J	0.014	0.34	mg/Kg
O3645-01	SB-02-(3-5)	SOIL	Cadmium	1.74		0.018	0.34	mg/Kg
O3645-01	SB-02-(3-5)	SOIL	Chromium	5.23		0.061	0.57	mg/Kg
O3645-01	SB-02-(3-5)	SOIL	Copper	14.1		0.53	1.14	mg/Kg
O3645-01	SB-02-(3-5)	SOIL	Lead	49.9		0.17	0.68	mg/Kg
O3645-01	SB-02-(3-5)	SOIL	Manganese	480		0.081	1.14	mg/Kg
O3645-01	SB-02-(3-5)	SOIL	Mercury	0.081		0.0060	0.014	mg/Kg
O3645-01	SB-02-(3-5)	SOIL	Nickel	10.6		0.10	2.27	mg/Kg
O3645-01	SB-02-(3-5)	SOIL	Zinc	347		0.13	2.27	mg/Kg
Client ID : SB-04-(1-5)								
O3645-02	SB-04-(1-5)	SOIL	Arsenic	1.15		0.26	0.90	mg/Kg
O3645-02	SB-04-(1-5)	SOIL	Barium	27.7		0.57	4.49	mg/Kg
O3645-02	SB-04-(1-5)	SOIL	Beryllium	0.23	J	0.011	0.27	mg/Kg
O3645-02	SB-04-(1-5)	SOIL	Cadmium	1.81		0.014	0.27	mg/Kg
O3645-02	SB-04-(1-5)	SOIL	Chromium	4.23		0.048	0.45	mg/Kg
O3645-02	SB-04-(1-5)	SOIL	Copper	15.6		0.42	0.90	mg/Kg
O3645-02	SB-04-(1-5)	SOIL	Lead	84.4		0.14	0.54	mg/Kg
O3645-02	SB-04-(1-5)	SOIL	Manganese	483		0.064	0.90	mg/Kg
O3645-02	SB-04-(1-5)	SOIL	Mercury	6.05	D	0.061	0.14	mg/Kg
O3645-02	SB-04-(1-5)	SOIL	Nickel	9.56		0.081	1.80	mg/Kg
O3645-02	SB-04-(1-5)	SOIL	Zinc	314		0.099	1.80	mg/Kg
Client ID : SB-07-(1-3)								
O3645-03	SB-07-(1-3)	SOIL	Arsenic	1.49		0.31	1.07	mg/Kg
O3645-03	SB-07-(1-3)	SOIL	Barium	88.9		0.68	5.33	mg/Kg
O3645-03	SB-07-(1-3)	SOIL	Beryllium	0.71		0.013	0.32	mg/Kg
O3645-03	SB-07-(1-3)	SOIL	Cadmium	1.68		0.017	0.32	mg/Kg
O3645-03	SB-07-(1-3)	SOIL	Chromium	14.6		0.058	0.53	mg/Kg
O3645-03	SB-07-(1-3)	SOIL	Copper	11.6		0.50	1.07	mg/Kg
O3645-03	SB-07-(1-3)	SOIL	Lead	25.9		0.16	0.64	mg/Kg
O3645-03	SB-07-(1-3)	SOIL	Manganese	248		0.076	1.07	mg/Kg
O3645-03	SB-07-(1-3)	SOIL	Mercury	0.079		0.0070	0.015	mg/Kg
O3645-03	SB-07-(1-3)	SOIL	Nickel	20.9		0.096	2.13	mg/Kg
O3645-03	SB-07-(1-3)	SOIL	Zinc	366		0.12	2.13	mg/Kg

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Hit Summary Sheet
SW-846

SDG No.: O3645 **Order ID:** O3645

Client: LaBella Associates P.C. **Project ID:** Mackenna Parcels

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : SB-08-(0.5-2.0)								
O3645-04	SB-08-(0.5-2.0)	SOIL	Arsenic	97.6		0.36	1.25	mg/Kg
O3645-04	SB-08-(0.5-2.0)	SOIL	Barium	247		0.80	6.26	mg/Kg
O3645-04	SB-08-(0.5-2.0)	SOIL	Beryllium	1.18		0.015	0.38	mg/Kg
O3645-04	SB-08-(0.5-2.0)	SOIL	Cadmium	3.49		0.020	0.38	mg/Kg
O3645-04	SB-08-(0.5-2.0)	SOIL	Chromium	93.0		0.068	0.63	mg/Kg
O3645-04	SB-08-(0.5-2.0)	SOIL	Copper	765		0.59	1.25	mg/Kg
O3645-04	SB-08-(0.5-2.0)	SOIL	Lead	8860		0.19	0.75	mg/Kg
O3645-04	SB-08-(0.5-2.0)	SOIL	Manganese	340		0.089	1.25	mg/Kg
O3645-04	SB-08-(0.5-2.0)	SOIL	Mercury	1.91	D	0.041	0.090	mg/Kg
O3645-04	SB-08-(0.5-2.0)	SOIL	Nickel	44.0		0.11	2.51	mg/Kg
O3645-04	SB-08-(0.5-2.0)	SOIL	Zinc	509		0.14	2.51	mg/Kg
Client ID : SB-09-(2.0-4.0)								
O3645-05	SB-09-(2.0-4.0)	SOIL	Arsenic	0.96	J	0.32	1.09	mg/Kg
O3645-05	SB-09-(2.0-4.0)	SOIL	Barium	74.0		0.70	5.43	mg/Kg
O3645-05	SB-09-(2.0-4.0)	SOIL	Beryllium	0.64		0.013	0.33	mg/Kg
O3645-05	SB-09-(2.0-4.0)	SOIL	Cadmium	0.90		0.017	0.33	mg/Kg
O3645-05	SB-09-(2.0-4.0)	SOIL	Chromium	11.2		0.059	0.54	mg/Kg
O3645-05	SB-09-(2.0-4.0)	SOIL	Copper	12.4		0.51	1.09	mg/Kg
O3645-05	SB-09-(2.0-4.0)	SOIL	Lead	33.8		0.16	0.65	mg/Kg
O3645-05	SB-09-(2.0-4.0)	SOIL	Manganese	204		0.077	1.09	mg/Kg
O3645-05	SB-09-(2.0-4.0)	SOIL	Mercury	0.28		0.0080	0.018	mg/Kg
O3645-05	SB-09-(2.0-4.0)	SOIL	Nickel	18.4		0.098	2.17	mg/Kg
O3645-05	SB-09-(2.0-4.0)	SOIL	Zinc	104		0.12	2.17	mg/Kg
Client ID : SB-10-(0.5-2.0)								
O3645-06	SB-10-(0.5-2.0)	SOIL	Arsenic	12.3		0.29	0.99	mg/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Barium	480		0.64	4.96	mg/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Beryllium	1.53		0.012	0.30	mg/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Cadmium	22.7		0.016	0.30	mg/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Chromium	50.0		0.054	0.50	mg/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Copper	3200		0.47	0.99	mg/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Lead	3400		0.15	0.60	mg/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Manganese	1060		0.070	0.99	mg/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Mercury	248	D	7.25	15.9	mg/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Nickel	103		0.089	1.98	mg/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Zinc	1850	OR	0.11	1.98	mg/Kg
Client ID : DUP								
O3645-07	DUP	SOIL	Arsenic	1.13		0.31	1.07	mg/Kg
O3645-07	DUP	SOIL	Barium	26.8		0.68	5.33	mg/Kg

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Hit Summary Sheet
SW-846

SDG No.: O3645 **Order ID:** O3645

Client: LaBella Associates P.C. **Project ID:** Mackenna Parcels

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
O3645-07	DUP	SOIL	Beryllium	0.27	J	0.013	0.32	mg/Kg
O3645-07	DUP	SOIL	Cadmium	1.56		0.017	0.32	mg/Kg
O3645-07	DUP	SOIL	Chromium	5.26		0.058	0.53	mg/Kg
O3645-07	DUP	SOIL	Copper	13.4		0.50	1.07	mg/Kg
O3645-07	DUP	SOIL	Lead	37.1		0.16	0.64	mg/Kg
O3645-07	DUP	SOIL	Manganese	492		0.076	1.07	mg/Kg
O3645-07	DUP	SOIL	Mercury	0.051		0.0070	0.016	mg/Kg
O3645-07	DUP	SOIL	Nickel	10.6		0.096	2.13	mg/Kg
O3645-07	DUP	SOIL	Zinc	325		0.12	2.13	mg/Kg
Client ID :	**RINSATE-BLANK**							
O3645-08	RINSATE-BLANK	Water	Chromium	12.1		0.50	5.00	ug/L
O3645-08	RINSATE-BLANK	Water	Manganese	9.55	J	1.46	10.0	ug/L
O3645-08	RINSATE-BLANK	Water	Zinc	5.30	J	1.75	20.0	ug/L

SAMPLE DATA

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

Client:	LaBella Associates P.C.	Date Collected:	07/12/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-02-(3-5)	SDG No.:	O3645
Lab Sample ID:	O3645-01	Matrix:	SOIL
Level (low/med):	low	% Solid:	86.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7440-38-2	Arsenic	1.27		1	0.33	1.14	mg/Kg	07/18/23 12:30	07/19/23 16:35	SW6010	SW3050
7440-39-3	Barium	32.2	N	1	0.73	5.68	mg/Kg	07/18/23 12:30	07/19/23 16:35	SW6010	SW3050
7440-41-7	Beryllium	0.28	JN	1	0.014	0.34	mg/Kg	07/18/23 12:30	07/19/23 16:35	SW6010	SW3050
7440-43-9	Cadmium	1.74		1	0.018	0.34	mg/Kg	07/18/23 12:30	07/19/23 16:35	SW6010	SW3050
7440-47-3	Chromium	5.23	N	1	0.061	0.57	mg/Kg	07/18/23 12:30	07/19/23 16:35	SW6010	SW3050
7440-50-8	Copper	14.1	N*	1	0.53	1.14	mg/Kg	07/18/23 12:30	07/19/23 16:35	SW6010	SW3050
7439-92-1	Lead	49.9		1	0.17	0.68	mg/Kg	07/18/23 12:30	07/19/23 16:35	SW6010	SW3050
7439-96-5	Manganese	480		1	0.081	1.14	mg/Kg	07/18/23 12:30	07/19/23 16:35	SW6010	SW3050
7439-97-6	Mercury	0.081		1	0.0060	0.014	mg/Kg	07/18/23 13:30	07/19/23 13:08	SW7471B	
7440-02-0	Nickel	10.6		1	0.10	2.27	mg/Kg	07/18/23 12:30	07/19/23 16:35	SW6010	SW3050
7782-49-2	Selenium	1.14	U	1	0.38	1.14	mg/Kg	07/18/23 12:30	07/19/23 16:35	SW6010	SW3050
7440-22-4	Silver	0.57	U	1	0.059	0.57	mg/Kg	07/18/23 12:30	07/19/23 16:35	SW6010	SW3050
7440-66-6	Zinc	347		1	0.13	2.27	mg/Kg	07/18/23 12:30	07/19/23 16:35	SW6010	SW3050

Color Before:	Brown	Clarity Before:		Texture:	Medium
Color After:	Brown	Clarity After:		Artifacts:	No
Comments:	METALS RCRA				

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

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Fax : 908 789 8922

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/12/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-04-(1-5)	SDG No.:	O3645
Lab Sample ID:	O3645-02	Matrix:	SOIL
Level (low/med):	low	% Solid:	91.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7440-38-2	Arsenic	1.15		1	0.26	0.90	mg/Kg	07/18/23 12:30	07/19/23 16:39	SW6010	SW3050
7440-39-3	Barium	27.7	N	1	0.57	4.49	mg/Kg	07/18/23 12:30	07/19/23 16:39	SW6010	SW3050
7440-41-7	Beryllium	0.23	JN	1	0.011	0.27	mg/Kg	07/18/23 12:30	07/19/23 16:39	SW6010	SW3050
7440-43-9	Cadmium	1.81		1	0.014	0.27	mg/Kg	07/18/23 12:30	07/19/23 16:39	SW6010	SW3050
7440-47-3	Chromium	4.23	N	1	0.048	0.45	mg/Kg	07/18/23 12:30	07/19/23 16:39	SW6010	SW3050
7440-50-8	Copper	15.6	N*	1	0.42	0.90	mg/Kg	07/18/23 12:30	07/19/23 16:39	SW6010	SW3050
7439-92-1	Lead	84.4		1	0.14	0.54	mg/Kg	07/18/23 12:30	07/19/23 16:39	SW6010	SW3050
7439-96-5	Manganese	483		1	0.064	0.90	mg/Kg	07/18/23 12:30	07/19/23 16:39	SW6010	SW3050
7439-97-6	Mercury	6.05	D	10	0.061	0.14	mg/Kg	07/18/23 13:30	07/19/23 14:20	SW7471B	
7440-02-0	Nickel	9.56		1	0.081	1.80	mg/Kg	07/18/23 12:30	07/19/23 16:39	SW6010	SW3050
7782-49-2	Selenium	0.90	U	1	0.30	0.90	mg/Kg	07/18/23 12:30	07/19/23 16:39	SW6010	SW3050
7440-22-4	Silver	0.45	U	1	0.047	0.45	mg/Kg	07/18/23 12:30	07/19/23 16:39	SW6010	SW3050
7440-66-6	Zinc	314		1	0.099	1.80	mg/Kg	07/18/23 12:30	07/19/23 16:39	SW6010	SW3050

Color Before:	Brown	Clarity Before:		Texture:	Medium
Color After:	Brown	Clarity After:		Artifacts:	No
Comments:	METALS RCRA				

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

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Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/13/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-07-(1-3)	SDG No.:	O3645
Lab Sample ID:	O3645-03	Matrix:	SOIL
Level (low/med):	low	% Solid:	79.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7440-38-2	Arsenic	1.49		1	0.31	1.07	mg/Kg	07/18/23 12:30	07/19/23 17:11	SW6010	SW3050
7440-39-3	Barium	88.9	N	1	0.68	5.33	mg/Kg	07/18/23 12:30	07/19/23 17:11	SW6010	SW3050
7440-41-7	Beryllium	0.71	N	1	0.013	0.32	mg/Kg	07/18/23 12:30	07/19/23 17:11	SW6010	SW3050
7440-43-9	Cadmium	1.68		1	0.017	0.32	mg/Kg	07/18/23 12:30	07/19/23 17:11	SW6010	SW3050
7440-47-3	Chromium	14.6	N	1	0.058	0.53	mg/Kg	07/18/23 12:30	07/19/23 17:11	SW6010	SW3050
7440-50-8	Copper	11.6	N*	1	0.50	1.07	mg/Kg	07/18/23 12:30	07/19/23 17:11	SW6010	SW3050
7439-92-1	Lead	25.9		1	0.16	0.64	mg/Kg	07/18/23 12:30	07/19/23 17:11	SW6010	SW3050
7439-96-5	Manganese	248		1	0.076	1.07	mg/Kg	07/18/23 12:30	07/19/23 17:11	SW6010	SW3050
7439-97-6	Mercury	0.079		1	0.0070	0.015	mg/Kg	07/18/23 13:30	07/19/23 13:14	SW7471B	
7440-02-0	Nickel	20.9		1	0.096	2.13	mg/Kg	07/18/23 12:30	07/19/23 17:11	SW6010	SW3050
7782-49-2	Selenium	1.07	U	1	0.35	1.07	mg/Kg	07/18/23 12:30	07/19/23 17:11	SW6010	SW3050
7440-22-4	Silver	0.53	U	1	0.055	0.53	mg/Kg	07/18/23 12:30	07/19/23 17:11	SW6010	SW3050
7440-66-6	Zinc	366		1	0.12	2.13	mg/Kg	07/18/23 12:30	07/19/23 17:11	SW6010	SW3050

Color Before:	Brown	Clarity Before:		Texture:	Medium
Color After:	Brown	Clarity After:		Artifacts:	No
Comments:	METALS RCRA				

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

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Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/13/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-08-(0.5-2.0)	SDG No.:	O3645
Lab Sample ID:	O3645-04	Matrix:	SOIL
Level (low/med):	low	% Solid:	74.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7440-38-2	Arsenic	97.6		1	0.36	1.25	mg/Kg	07/18/23 12:30	07/19/23 17:15	SW6010	SW3050
7440-39-3	Barium	247	N	1	0.80	6.26	mg/Kg	07/18/23 12:30	07/19/23 17:15	SW6010	SW3050
7440-41-7	Beryllium	1.18	N	1	0.015	0.38	mg/Kg	07/18/23 12:30	07/19/23 17:15	SW6010	SW3050
7440-43-9	Cadmium	3.49		1	0.020	0.38	mg/Kg	07/18/23 12:30	07/19/23 17:15	SW6010	SW3050
7440-47-3	Chromium	93.0	N	1	0.068	0.63	mg/Kg	07/18/23 12:30	07/19/23 17:15	SW6010	SW3050
7440-50-8	Copper	765	N*	1	0.59	1.25	mg/Kg	07/18/23 12:30	07/19/23 17:15	SW6010	SW3050
7439-92-1	Lead	8860		1	0.19	0.75	mg/Kg	07/18/23 12:30	07/19/23 17:15	SW6010	SW3050
7439-96-5	Manganese	340		1	0.089	1.25	mg/Kg	07/18/23 12:30	07/19/23 17:15	SW6010	SW3050
7439-97-6	Mercury	1.91	D	5	0.041	0.090	mg/Kg	07/18/23 13:30	07/19/23 14:47	SW7471B	
7440-02-0	Nickel	44.0		1	0.11	2.51	mg/Kg	07/18/23 12:30	07/19/23 17:15	SW6010	SW3050
7782-49-2	Selenium	1.25	U	1	0.41	1.25	mg/Kg	07/18/23 12:30	07/19/23 17:15	SW6010	SW3050
7440-22-4	Silver	0.63	U	1	0.065	0.63	mg/Kg	07/18/23 12:30	07/19/23 17:15	SW6010	SW3050
7440-66-6	Zinc	509		1	0.14	2.51	mg/Kg	07/18/23 12:30	07/19/23 17:15	SW6010	SW3050

Color Before:	Brown	Clarity Before:		Texture:	Medium
Color After:	Brown	Clarity After:		Artifacts:	No
Comments:	METALS RCRA				

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

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Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/13/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-09-(2.0-4.0)	SDG No.:	O3645
Lab Sample ID:	O3645-05	Matrix:	SOIL
Level (low/med):	low	% Solid:	79.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7440-38-2	Arsenic	0.96	J	1	0.32	1.09	mg/Kg	07/18/23 12:30	07/19/23 17:19	SW6010	SW3050
7440-39-3	Barium	74.0	N	1	0.70	5.43	mg/Kg	07/18/23 12:30	07/19/23 17:19	SW6010	SW3050
7440-41-7	Beryllium	0.64	N	1	0.013	0.33	mg/Kg	07/18/23 12:30	07/19/23 17:19	SW6010	SW3050
7440-43-9	Cadmium	0.90		1	0.017	0.33	mg/Kg	07/18/23 12:30	07/19/23 17:19	SW6010	SW3050
7440-47-3	Chromium	11.2	N	1	0.059	0.54	mg/Kg	07/18/23 12:30	07/19/23 17:19	SW6010	SW3050
7440-50-8	Copper	12.4	N*	1	0.51	1.09	mg/Kg	07/18/23 12:30	07/19/23 17:19	SW6010	SW3050
7439-92-1	Lead	33.8		1	0.16	0.65	mg/Kg	07/18/23 12:30	07/19/23 17:19	SW6010	SW3050
7439-96-5	Manganese	204		1	0.077	1.09	mg/Kg	07/18/23 12:30	07/19/23 17:19	SW6010	SW3050
7439-97-6	Mercury	0.28		1	0.0080	0.018	mg/Kg	07/18/23 13:30	07/19/23 13:23	SW7471B	
7440-02-0	Nickel	18.4		1	0.098	2.17	mg/Kg	07/18/23 12:30	07/19/23 17:19	SW6010	SW3050
7782-49-2	Selenium	1.09	U	1	0.36	1.09	mg/Kg	07/18/23 12:30	07/19/23 17:19	SW6010	SW3050
7440-22-4	Silver	0.54	U	1	0.056	0.54	mg/Kg	07/18/23 12:30	07/19/23 17:19	SW6010	SW3050
7440-66-6	Zinc	104		1	0.12	2.17	mg/Kg	07/18/23 12:30	07/19/23 17:19	SW6010	SW3050

Color Before:	Brown	Clarity Before:		Texture:	Medium
Color After:	Brown	Clarity After:		Artifacts:	No
Comments:	METALS RCRA				

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

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Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/13/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-10-(0.5-2.0)	SDG No.:	O3645
Lab Sample ID:	O3645-06	Matrix:	SOIL
Level (low/med):	low	% Solid:	83.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7440-38-2	Arsenic	12.3		1	0.29	0.99	mg/Kg	07/18/23 12:30	07/19/23 17:23	SW6010	SW3050
7440-39-3	Barium	480	N	1	0.64	4.96	mg/Kg	07/18/23 12:30	07/19/23 17:23	SW6010	SW3050
7440-41-7	Beryllium	1.53	N	1	0.012	0.30	mg/Kg	07/18/23 12:30	07/19/23 17:23	SW6010	SW3050
7440-43-9	Cadmium	22.7		1	0.016	0.30	mg/Kg	07/18/23 12:30	07/19/23 17:23	SW6010	SW3050
7440-47-3	Chromium	50.0	N	1	0.054	0.50	mg/Kg	07/18/23 12:30	07/19/23 17:23	SW6010	SW3050
7440-50-8	Copper	3200	N*	1	0.47	0.99	mg/Kg	07/18/23 12:30	07/19/23 17:23	SW6010	SW3050
7439-92-1	Lead	3400		1	0.15	0.60	mg/Kg	07/18/23 12:30	07/19/23 17:23	SW6010	SW3050
7439-96-5	Manganese	1060		1	0.070	0.99	mg/Kg	07/18/23 12:30	07/19/23 17:23	SW6010	SW3050
7439-97-6	Mercury	248	D	100(	7.25	15.9	mg/Kg	07/18/23 13:30	07/19/23 14:57	SW7471B	
7440-02-0	Nickel	103		1	0.089	1.98	mg/Kg	07/18/23 12:30	07/19/23 17:23	SW6010	SW3050
7782-49-2	Selenium	0.99	U	1	0.33	0.99	mg/Kg	07/18/23 12:30	07/19/23 17:23	SW6010	SW3050
7440-22-4	Silver	0.50	U	1	0.052	0.50	mg/Kg	07/18/23 12:30	07/19/23 17:23	SW6010	SW3050
7440-66-6	Zinc	1850	OR	1	0.11	1.98	mg/Kg	07/18/23 12:30	07/19/23 17:23	SW6010	SW3050

Color Before:	Brown	Clarity Before:		Texture:	Medium
Color After:	Brown	Clarity After:		Artifacts:	No
Comments:	METALS RCRA				

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

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Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/12/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	DUP	SDG No.:	O3645
Lab Sample ID:	O3645-07	Matrix:	SOIL
Level (low/med):	low	% Solid:	80.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7440-38-2	Arsenic	1.13		1	0.31	1.07	mg/Kg	07/18/23 12:30	07/19/23 17:27	SW6010	SW3050
7440-39-3	Barium	26.8	N	1	0.68	5.33	mg/Kg	07/18/23 12:30	07/19/23 17:27	SW6010	SW3050
7440-41-7	Beryllium	0.27	JN	1	0.013	0.32	mg/Kg	07/18/23 12:30	07/19/23 17:27	SW6010	SW3050
7440-43-9	Cadmium	1.56		1	0.017	0.32	mg/Kg	07/18/23 12:30	07/19/23 17:27	SW6010	SW3050
7440-47-3	Chromium	5.26	N	1	0.058	0.53	mg/Kg	07/18/23 12:30	07/19/23 17:27	SW6010	SW3050
7440-50-8	Copper	13.4	N*	1	0.50	1.07	mg/Kg	07/18/23 12:30	07/19/23 17:27	SW6010	SW3050
7439-92-1	Lead	37.1		1	0.16	0.64	mg/Kg	07/18/23 12:30	07/19/23 17:27	SW6010	SW3050
7439-96-5	Manganese	492		1	0.076	1.07	mg/Kg	07/18/23 12:30	07/19/23 17:27	SW6010	SW3050
7439-97-6	Mercury	0.051		1	0.0070	0.016	mg/Kg	07/18/23 13:30	07/19/23 13:28	SW7471B	
7440-02-0	Nickel	10.6		1	0.096	2.13	mg/Kg	07/18/23 12:30	07/19/23 17:27	SW6010	SW3050
7782-49-2	Selenium	1.07	U	1	0.35	1.07	mg/Kg	07/18/23 12:30	07/19/23 17:27	SW6010	SW3050
7440-22-4	Silver	0.53	U	1	0.055	0.53	mg/Kg	07/18/23 12:30	07/19/23 17:27	SW6010	SW3050
7440-66-6	Zinc	325		1	0.12	2.13	mg/Kg	07/18/23 12:30	07/19/23 17:27	SW6010	SW3050

Color Before:	Brown	Clarity Before:		Texture:	Medium
Color After:	Brown	Clarity After:		Artifacts:	No
Comments:	METALS RCRA				

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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
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OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/12/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	RINSATE-BLANK	SDG No.:	O3645
Lab Sample ID:	O3645-08	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7440-38-2	Arsenic	10.0	U	1	3.48	10.0	ug/L	07/17/23 12:00	07/31/23 17:25	SW6010	SW3010
7440-39-3	Barium	50.0	UN	1	6.28	50.0	ug/L	07/17/23 12:00	07/31/23 17:25	SW6010	SW3010
7440-41-7	Beryllium	3.00	U	1	0.13	3.00	ug/L	07/17/23 12:00	07/31/23 17:25	SW6010	SW3010
7440-43-9	Cadmium	3.00	U	1	0.094	3.00	ug/L	07/17/23 12:00	07/31/23 17:25	SW6010	SW3010
7440-47-3	Chromium	12.1		1	0.50	5.00	ug/L	07/17/23 12:00	07/31/23 17:25	SW6010	SW3010
7440-50-8	Copper	10.0	U	1	7.07	10.0	ug/L	07/17/23 12:00	07/31/23 17:25	SW6010	SW3010
7439-92-1	Lead	6.00	U	1	3.51	6.00	ug/L	07/17/23 12:00	07/31/23 17:25	SW6010	SW3010
7439-96-5	Manganese	9.55	J	1	1.46	10.0	ug/L	07/17/23 12:00	07/31/23 17:25	SW6010	SW3010
7439-97-6	Mercury	0.20	U	1	0.078	0.20	ug/L	07/18/23 15:40	07/19/23 10:20	SW7470A	
7440-02-0	Nickel	20.0	U	1	0.85	20.0	ug/L	07/17/23 12:00	07/31/23 17:25	SW6010	SW3010
7782-49-2	Selenium	10.0	U	1	5.88	10.0	ug/L	07/17/23 12:00	07/31/23 17:25	SW6010	SW3010
7440-22-4	Silver	5.00	U	1	0.58	5.00	ug/L	07/17/23 12:00	07/31/23 17:25	SW6010	SW3010
7440-66-6	Zinc	5.30	JN	1	1.75	20.0	ug/L	07/17/23 12:00	07/31/23 17:25	SW6010	SW3010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	METALS RCRA				

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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
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N =Spiked sample recovery not within control limits

METAL CALIBRATION DATA

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Fax : 908 789 8922

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LaBella Associates P.C. **SDG No.:** O3645

Contract: LABE01 **Lab Code:** CHEM **Case No.:** O3645 **SAS No.:** O3645

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
ICV75	Mercury	4.24	4.0	106	90 - 110	CV	07/19/2023	09:50	LB126505

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LaBella Associates P.C. **SDG No.:** O3645

Contract: LABE01 **Lab Code:** CHEM **Case No.:** O3645 **SAS No.:** O3645

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
CCV61	Mercury	4.87	5.0	97	90 - 110	CV	07/19/2023	09:55	LB126505
CCV62	Mercury	4.87	5.0	98	90 - 110	CV	07/19/2023	10:22	LB126505
CCV63	Mercury	4.90	5.0	98	90 - 110	CV	07/19/2023	10:31	LB126505

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LaBella Associates P.C. **SDG No.:** O3645

Contract: LABE01 **Lab Code:** CHEM **Case No.:** O3645 **SAS No.:** O3645

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
ICV76	Mercury	4.14	4.0	104	90 - 110	CV	07/19/2023	11:49	LB126507

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LaBella Associates P.C. **SDG No.:** O3645

Contract: LABE01 **Lab Code:** CHEM **Case No.:** O3645 **SAS No.:** O3645

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
CCV64	Mercury	4.84	5.0	97	90 - 110	CV	07/19/2023	11:53	LB126507
CCV65	Mercury	4.86	5.0	97	90 - 110	CV	07/19/2023	12:23	LB126507
CCV66	Mercury	4.88	5.0	98	90 - 110	CV	07/19/2023	12:50	LB126507
CCV67	Mercury	4.91	5.0	98	90 - 110	CV	07/19/2023	13:17	LB126507
CCV68	Mercury	4.96	5.0	99	90 - 110	CV	07/19/2023	13:44	LB126507
CCV69	Mercury	5.03	5.0	101	90 - 110	CV	07/19/2023	14:07	LB126507
CCV70	Mercury	4.93	5.0	99	90 - 110	CV	07/19/2023	14:42	LB126507
CCV71	Mercury	5.05	5.0	101	90 - 110	CV	07/19/2023	14:59	LB126507

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LaBella Associates P.C. **SDG No.:** O3645

Contract: LABE01 **Lab Code:** CHEM **Case No.:** O3645 **SAS No.:** O3645

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	Arsenic	1030	1000	103	90 - 110	P	07/19/2023	13:05	LB126517
	Barium	502	520	96	90 - 110	P	07/19/2023	13:05	LB126517
	Beryllium	486	510	95	90 - 110	P	07/19/2023	13:05	LB126517
	Cadmium	503	510	99	90 - 110	P	07/19/2023	13:05	LB126517
	Chromium	504	520	97	90 - 110	P	07/19/2023	13:05	LB126517
	Copper	499	510	98	90 - 110	P	07/19/2023	13:05	LB126517
	Lead	991	1000	99	90 - 110	P	07/19/2023	13:05	LB126517
	Manganese	506	520	97	90 - 110	P	07/19/2023	13:05	LB126517
	Nickel	490	530	92	90 - 110	P	07/19/2023	13:05	LB126517
	Selenium	1030	1000	103	90 - 110	P	07/19/2023	13:05	LB126517
	Silver	248	250	99	90 - 110	P	07/19/2023	13:05	LB126517
	Zinc	991	1000	99	90 - 110	P	07/19/2023	13:05	LB126517

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LaBella Associates P.C. **SDG No.:** O3645

Contract: LABE01 **Lab Code:** CHEM **Case No.:** O3645 **SAS No.:** O3645

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	Arsenic	5010	5000	100	90 - 110	P	07/19/2023	13:37	LB126517
	Barium	10000	10000	100	90 - 110	P	07/19/2023	13:37	LB126517
	Beryllium	238	250	95	90 - 110	P	07/19/2023	13:37	LB126517
	Cadmium	2430	2500	97	90 - 110	P	07/19/2023	13:37	LB126517
	Chromium	988	1000	99	90 - 110	P	07/19/2023	13:37	LB126517
	Copper	1210	1250	97	90 - 110	P	07/19/2023	13:37	LB126517
	Lead	4910	5000	98	90 - 110	P	07/19/2023	13:37	LB126517
	Manganese	2440	2500	98	90 - 110	P	07/19/2023	13:37	LB126517
	Nickel	2450	2500	98	90 - 110	P	07/19/2023	13:37	LB126517
	Selenium	5000	5000	100	90 - 110	P	07/19/2023	13:37	LB126517
	Silver	1270	1250	102	90 - 110	P	07/19/2023	13:37	LB126517
	Zinc	2500	2500	100	90 - 110	P	07/19/2023	13:37	LB126517

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LaBella Associates P.C. **SDG No.:** O3645

Contract: LABE01 **Lab Code:** CHEM **Case No.:** O3645 **SAS No.:** O3645

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
LLCCV01	Arsenic	20.1	20.0	100	80 - 120	P	07/19/2023	13:45	LB126517
	Barium	104	100	104	80 - 120	P	07/19/2023	13:45	LB126517
	Beryllium	6.35	6.0	106	80 - 120	P	07/19/2023	13:45	LB126517
	Cadmium	6.59	6.0	110	80 - 120	P	07/19/2023	13:45	LB126517
	Chromium	10.4	10.0	104	80 - 120	P	07/19/2023	13:45	LB126517
	Copper	23.2	20.0	116	80 - 120	P	07/19/2023	13:45	LB126517
	Lead	11.3	12.0	94	80 - 120	P	07/19/2023	13:45	LB126517
	Manganese	21.3	20.0	106	80 - 120	P	07/19/2023	13:45	LB126517
	Nickel	40.2	40.0	101	80 - 120	P	07/19/2023	13:45	LB126517
	Selenium	20.3	20.0	102	80 - 120	P	07/19/2023	13:45	LB126517
	Silver	11.1	10.0	111	80 - 120	P	07/19/2023	13:45	LB126517
	Zinc	43.2	40.0	108	80 - 120	P	07/19/2023	13:45	LB126517

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LaBella Associates P.C. **SDG No.:** O3645

Contract: LABE01 **Lab Code:** CHEM **Case No.:** O3645 **SAS No.:** O3645

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	Arsenic	5080	5000	102	90 - 110	P	07/19/2023	14:54	LB126517
	Barium	10200	10000	102	90 - 110	P	07/19/2023	14:54	LB126517
	Beryllium	238	250	95	90 - 110	P	07/19/2023	14:54	LB126517
	Cadmium	2430	2500	97	90 - 110	P	07/19/2023	14:54	LB126517
	Chromium	991	1000	99	90 - 110	P	07/19/2023	14:54	LB126517
	Copper	1250	1250	100	90 - 110	P	07/19/2023	14:54	LB126517
	Lead	4930	5000	99	90 - 110	P	07/19/2023	14:54	LB126517
	Manganese	2450	2500	98	90 - 110	P	07/19/2023	14:54	LB126517
	Nickel	2460	2500	98	90 - 110	P	07/19/2023	14:54	LB126517
	Selenium	5040	5000	101	90 - 110	P	07/19/2023	14:54	LB126517
	Silver	1280	1250	102	90 - 110	P	07/19/2023	14:54	LB126517
	Zinc	2510	2500	100	90 - 110	P	07/19/2023	14:54	LB126517
CCV03	Arsenic	5120	5000	102	90 - 110	P	07/19/2023	16:03	LB126517
	Barium	10300	10000	103	90 - 110	P	07/19/2023	16:03	LB126517
	Beryllium	236	250	94	90 - 110	P	07/19/2023	16:03	LB126517
	Cadmium	2400	2500	96	90 - 110	P	07/19/2023	16:03	LB126517
	Chromium	984	1000	98	90 - 110	P	07/19/2023	16:03	LB126517
	Copper	1270	1250	102	90 - 110	P	07/19/2023	16:03	LB126517
	Lead	4910	5000	98	90 - 110	P	07/19/2023	16:03	LB126517
	Manganese	2460	2500	98	90 - 110	P	07/19/2023	16:03	LB126517
	Nickel	2450	2500	98	90 - 110	P	07/19/2023	16:03	LB126517
	Selenium	5090	5000	102	90 - 110	P	07/19/2023	16:03	LB126517
	Silver	1270	1250	102	90 - 110	P	07/19/2023	16:03	LB126517
	Zinc	2510	2500	100	90 - 110	P	07/19/2023	16:03	LB126517
CCV04	Arsenic	5160	5000	103	90 - 110	P	07/19/2023	16:51	LB126517
	Barium	10300	10000	103	90 - 110	P	07/19/2023	16:51	LB126517
	Beryllium	236	250	95	90 - 110	P	07/19/2023	16:51	LB126517
	Cadmium	2420	2500	97	90 - 110	P	07/19/2023	16:51	LB126517
	Chromium	989	1000	99	90 - 110	P	07/19/2023	16:51	LB126517
	Copper	1270	1250	102	90 - 110	P	07/19/2023	16:51	LB126517
	Lead	4930	5000	99	90 - 110	P	07/19/2023	16:51	LB126517
	Manganese	2460	2500	99	90 - 110	P	07/19/2023	16:51	LB126517
	Nickel	2460	2500	98	90 - 110	P	07/19/2023	16:51	LB126517
	Selenium	5140	5000	103	90 - 110	P	07/19/2023	16:51	LB126517

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LaBella Associates P.C. **SDG No.:** O3645

Contract: LABE01 **Lab Code:** CHEM **Case No.:** O3645 **SAS No.:** O3645

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	Silver	1270	1250	101	90 - 110	P	07/19/2023	16:51	LB126517
	Zinc	2520	2500	101	90 - 110	P	07/19/2023	16:51	LB126517
CCV05	Arsenic	5200	5000	104	90 - 110	P	07/19/2023	17:44	LB126517
	Barium	10400	10000	104	90 - 110	P	07/19/2023	17:44	LB126517
	Beryllium	238	250	95	90 - 110	P	07/19/2023	17:44	LB126517
	Cadmium	2420	2500	97	90 - 110	P	07/19/2023	17:44	LB126517
	Chromium	984	1000	98	90 - 110	P	07/19/2023	17:44	LB126517
	Copper	1280	1250	102	90 - 110	P	07/19/2023	17:44	LB126517
	Lead	4950	5000	99	90 - 110	P	07/19/2023	17:44	LB126517
	Manganese	2450	2500	98	90 - 110	P	07/19/2023	17:44	LB126517
	Nickel	2480	2500	99	90 - 110	P	07/19/2023	17:44	LB126517
	Selenium	5180	5000	104	90 - 110	P	07/19/2023	17:44	LB126517
	Silver	1260	1250	101	90 - 110	P	07/19/2023	17:44	LB126517
	Zinc	2570	2500	103	90 - 110	P	07/19/2023	17:44	LB126517
CCV06	Arsenic	5050	5000	101	90 - 110	P	07/19/2023	18:39	LB126517
	Barium	10300	10000	103	90 - 110	P	07/19/2023	18:39	LB126517
	Beryllium	235	250	94	90 - 110	P	07/19/2023	18:39	LB126517
	Cadmium	2360	2500	94	90 - 110	P	07/19/2023	18:39	LB126517
	Chromium	978	1000	98	90 - 110	P	07/19/2023	18:39	LB126517
	Copper	1250	1250	100	90 - 110	P	07/19/2023	18:39	LB126517
	Lead	4830	5000	96	90 - 110	P	07/19/2023	18:39	LB126517
	Manganese	2420	2500	97	90 - 110	P	07/19/2023	18:39	LB126517
	Nickel	2420	2500	97	90 - 110	P	07/19/2023	18:39	LB126517
	Selenium	5050	5000	101	90 - 110	P	07/19/2023	18:39	LB126517
	Silver	1270	1250	101	90 - 110	P	07/19/2023	18:39	LB126517
	Zinc	2530	2500	101	90 - 110	P	07/19/2023	18:39	LB126517
CCV07	Arsenic	5030	5000	101	90 - 110	P	07/19/2023	19:26	LB126517
	Barium	10100	10000	101	90 - 110	P	07/19/2023	19:26	LB126517
	Beryllium	233	250	93	90 - 110	P	07/19/2023	19:26	LB126517
	Cadmium	2360	2500	94	90 - 110	P	07/19/2023	19:26	LB126517
	Chromium	960	1000	96	90 - 110	P	07/19/2023	19:26	LB126517
	Copper	1220	1250	98	90 - 110	P	07/19/2023	19:26	LB126517
	Lead	4840	5000	97	90 - 110	P	07/19/2023	19:26	LB126517
	Manganese	2390	2500	96	90 - 110	P	07/19/2023	19:26	LB126517

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LaBella Associates P.C. **SDG No.:** O3645

Contract: LABE01 **Lab Code:** CHEM **Case No.:** O3645 **SAS No.:** O3645

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	Nickel	2410	2500	97	90 - 110	P	07/19/2023	19:26	LB126517
	Selenium	5030	5000	101	90 - 110	P	07/19/2023	19:26	LB126517
	Silver	1240	1250	100	90 - 110	P	07/19/2023	19:26	LB126517
	Zinc	2480	2500	99	90 - 110	P	07/19/2023	19:26	LB126517
CCV08	Arsenic	5020	5000	100	90 - 110	P	07/19/2023	20:14	LB126517
	Barium	10000	10000	100	90 - 110	P	07/19/2023	20:14	LB126517
	Beryllium	233	250	93	90 - 110	P	07/19/2023	20:14	LB126517
	Cadmium	2380	2500	95	90 - 110	P	07/19/2023	20:14	LB126517
	Chromium	966	1000	97	90 - 110	P	07/19/2023	20:14	LB126517
	Copper	1210	1250	97	90 - 110	P	07/19/2023	20:14	LB126517
	Lead	4840	5000	97	90 - 110	P	07/19/2023	20:14	LB126517
	Manganese	2370	2500	95	90 - 110	P	07/19/2023	20:14	LB126517
	Nickel	2430	2500	97	90 - 110	P	07/19/2023	20:14	LB126517
	Selenium	5030	5000	101	90 - 110	P	07/19/2023	20:14	LB126517
	Silver	1250	1250	100	90 - 110	P	07/19/2023	20:14	LB126517
	Zinc	2500	2500	100	90 - 110	P	07/19/2023	20:14	LB126517
CCV09	Arsenic	5170	5000	103	90 - 110	P	07/19/2023	21:03	LB126517
	Barium	10300	10000	103	90 - 110	P	07/19/2023	21:03	LB126517
	Beryllium	244	250	98	90 - 110	P	07/19/2023	21:03	LB126517
	Cadmium	2480	2500	99	90 - 110	P	07/19/2023	21:03	LB126517
	Chromium	1010	1000	100	90 - 110	P	07/19/2023	21:03	LB126517
	Copper	1250	1250	100	90 - 110	P	07/19/2023	21:03	LB126517
	Lead	5040	5000	101	90 - 110	P	07/19/2023	21:03	LB126517
	Manganese	2460	2500	98	90 - 110	P	07/19/2023	21:03	LB126517
	Nickel	2510	2500	101	90 - 110	P	07/19/2023	21:03	LB126517
	Selenium	5170	5000	103	90 - 110	P	07/19/2023	21:03	LB126517
	Silver	1310	1250	104	90 - 110	P	07/19/2023	21:03	LB126517
	Zinc	2560	2500	102	90 - 110	P	07/19/2023	21:03	LB126517
CCV10	Arsenic	5270	5000	105	90 - 110	P	07/19/2023	21:19	LB126517
	Barium	10400	10000	104	90 - 110	P	07/19/2023	21:19	LB126517
	Beryllium	249	250	100	90 - 110	P	07/19/2023	21:19	LB126517
	Cadmium	2510	2500	100	90 - 110	P	07/19/2023	21:19	LB126517
	Chromium	1020	1000	102	90 - 110	P	07/19/2023	21:19	LB126517
	Copper	1260	1250	101	90 - 110	P	07/19/2023	21:19	LB126517

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LaBella Associates P.C. **SDG No.:** O3645

Contract: LABE01 **Lab Code:** CHEM **Case No.:** O3645 **SAS No.:** O3645

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	Lead	5110	5000	102	90 - 110	P	07/19/2023	21:19	LB126517
	Manganese	2500	2500	100	90 - 110	P	07/19/2023	21:19	LB126517
	Nickel	2550	2500	102	90 - 110	P	07/19/2023	21:19	LB126517
	Selenium	5260	5000	105	90 - 110	P	07/19/2023	21:19	LB126517
	Silver	1320	1250	106	90 - 110	P	07/19/2023	21:19	LB126517
	Zinc	2600	2500	104	90 - 110	P	07/19/2023	21:19	LB126517

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LaBella Associates P.C. **SDG No.:** O3645

Contract: LABE01 **Lab Code:** CHEM **Case No.:** O3645 **SAS No.:** O3645

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	Arsenic	1080	1000	108	90 - 110	P	07/31/2023	13:25	LB126674
	Barium	530	520	102	90 - 110	P	07/31/2023	13:25	LB126674
	Beryllium	525	510	103	90 - 110	P	07/31/2023	13:25	LB126674
	Cadmium	541	510	106	90 - 110	P	07/31/2023	13:25	LB126674
	Chromium	537	520	103	90 - 110	P	07/31/2023	13:25	LB126674
	Copper	530	510	104	90 - 110	P	07/31/2023	13:25	LB126674
	Lead	1060	1000	106	90 - 110	P	07/31/2023	13:25	LB126674
	Manganese	533	520	102	90 - 110	P	07/31/2023	13:25	LB126674
	Nickel	525	530	99	90 - 110	P	07/31/2023	13:25	LB126674
	Selenium	1090	1000	109	90 - 110	P	07/31/2023	13:25	LB126674
	Silver	259	250	104	90 - 110	P	07/31/2023	13:25	LB126674
	Zinc	1050	1000	105	90 - 110	P	07/31/2023	13:25	LB126674

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LaBella Associates P.C. **SDG No.:** O3645

Contract: LABE01 **Lab Code:** CHEM **Case No.:** O3645 **SAS No.:** O3645

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
LLCCV01	Arsenic	17.2	20.0	86	80 - 120	P	07/31/2023	13:42	LB126674
	Barium	82.3	100	82	80 - 120	P	07/31/2023	13:42	LB126674
	Beryllium	5.13	6.0	86	80 - 120	P	07/31/2023	13:42	LB126674
	Cadmium	5.33	6.0	89	80 - 120	P	07/31/2023	13:42	LB126674
	Chromium	8.53	10.0	85	80 - 120	P	07/31/2023	13:42	LB126674
	Copper	16.1	20.0	80	80 - 120	P	07/31/2023	13:42	LB126674
	Lead	10.7	12.0	90	80 - 120	P	07/31/2023	13:42	LB126674
	Manganese	17.5	20.0	88	80 - 120	P	07/31/2023	13:42	LB126674
	Nickel	32.2	40.0	80	80 - 120	P	07/31/2023	13:42	LB126674
	Selenium	16.8	20.0	84	80 - 120	P	07/31/2023	13:42	LB126674
	Silver	8.41	10.0	84	80 - 120	P	07/31/2023	13:42	LB126674
	Zinc	34.9	40.0	87	80 - 120	P	07/31/2023	13:42	LB126674

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LaBella Associates P.C. **SDG No.:** O3645

Contract: LABE01 **Lab Code:** CHEM **Case No.:** O3645 **SAS No.:** O3645

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	Arsenic	5150	5000	103	90 - 110	P	07/31/2023	14:03	LB126674
	Barium	10300	10000	103	90 - 110	P	07/31/2023	14:03	LB126674
	Beryllium	246	250	98	90 - 110	P	07/31/2023	14:03	LB126674
	Cadmium	2500	2500	100	90 - 110	P	07/31/2023	14:03	LB126674
	Chromium	1010	1000	101	90 - 110	P	07/31/2023	14:03	LB126674
	Copper	1230	1250	98	90 - 110	P	07/31/2023	14:03	LB126674
	Lead	5050	5000	101	90 - 110	P	07/31/2023	14:03	LB126674
	Manganese	2500	2500	100	90 - 110	P	07/31/2023	14:03	LB126674
	Nickel	2520	2500	101	90 - 110	P	07/31/2023	14:03	LB126674
	Selenium	5170	5000	103	90 - 110	P	07/31/2023	14:03	LB126674
	Silver	1290	1250	103	90 - 110	P	07/31/2023	14:03	LB126674
	Zinc	2580	2500	103	90 - 110	P	07/31/2023	14:03	LB126674
CCV02	Arsenic	5100	5000	102	90 - 110	P	07/31/2023	16:21	LB126674
	Barium	10100	10000	102	90 - 110	P	07/31/2023	16:21	LB126674
	Beryllium	232	250	93	90 - 110	P	07/31/2023	16:21	LB126674
	Cadmium	2410	2500	96	90 - 110	P	07/31/2023	16:21	LB126674
	Chromium	972	1000	97	90 - 110	P	07/31/2023	16:21	LB126674
	Copper	1210	1250	97	90 - 110	P	07/31/2023	16:21	LB126674
	Lead	4910	5000	98	90 - 110	P	07/31/2023	16:21	LB126674
	Manganese	2420	2500	97	90 - 110	P	07/31/2023	16:21	LB126674
	Nickel	2450	2500	98	90 - 110	P	07/31/2023	16:21	LB126674
	Selenium	5090	5000	102	90 - 110	P	07/31/2023	16:21	LB126674
	Silver	1240	1250	100	90 - 110	P	07/31/2023	16:21	LB126674
	Zinc	2520	2500	101	90 - 110	P	07/31/2023	16:21	LB126674
CCV03	Arsenic	5220	5000	104	90 - 110	P	07/31/2023	17:09	LB126674
	Barium	10500	10000	105	90 - 110	P	07/31/2023	17:09	LB126674
	Beryllium	243	250	97	90 - 110	P	07/31/2023	17:09	LB126674
	Cadmium	2480	2500	99	90 - 110	P	07/31/2023	17:09	LB126674
	Chromium	1000	1000	100	90 - 110	P	07/31/2023	17:09	LB126674
	Copper	1240	1250	100	90 - 110	P	07/31/2023	17:09	LB126674
	Lead	5030	5000	101	90 - 110	P	07/31/2023	17:09	LB126674
	Manganese	2520	2500	101	90 - 110	P	07/31/2023	17:09	LB126674
	Nickel	2500	2500	100	90 - 110	P	07/31/2023	17:09	LB126674
	Selenium	5190	5000	104	90 - 110	P	07/31/2023	17:09	LB126674

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LaBella Associates P.C. **SDG No.:** O3645

Contract: LABE01 **Lab Code:** CHEM **Case No.:** O3645 **SAS No.:** O3645

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
CCV03	Silver	1280	1250	102	90 - 110	P	07/31/2023	17:09	LB126674
	Zinc	2560	2500	102	90 - 110	P	07/31/2023	17:09	LB126674
CCV04	Arsenic	4980	5000	100	90 - 110	P	07/31/2023	17:57	LB126674
	Barium	10000	10000	100	90 - 110	P	07/31/2023	17:57	LB126674
	Beryllium	231	250	92	90 - 110	P	07/31/2023	17:57	LB126674
	Cadmium	2360	2500	94	90 - 110	P	07/31/2023	17:57	LB126674
	Chromium	955	1000	96	90 - 110	P	07/31/2023	17:57	LB126674
	Copper	1190	1250	95	90 - 110	P	07/31/2023	17:57	LB126674
	Lead	4780	5000	96	90 - 110	P	07/31/2023	17:57	LB126674
	Manganese	2400	2500	96	90 - 110	P	07/31/2023	17:57	LB126674
	Nickel	2370	2500	95	90 - 110	P	07/31/2023	17:57	LB126674
	Selenium	4980	5000	100	90 - 110	P	07/31/2023	17:57	LB126674
	Silver	1230	1250	98	90 - 110	P	07/31/2023	17:57	LB126674
	Zinc	2450	2500	98	90 - 110	P	07/31/2023	17:57	LB126674
CCV05	Arsenic	5070	5000	101	90 - 110	P	07/31/2023	18:44	LB126674
	Barium	10100	10000	101	90 - 110	P	07/31/2023	18:44	LB126674
	Beryllium	239	250	96	90 - 110	P	07/31/2023	18:44	LB126674
	Cadmium	2410	2500	97	90 - 110	P	07/31/2023	18:44	LB126674
	Chromium	970	1000	97	90 - 110	P	07/31/2023	18:44	LB126674
	Copper	1210	1250	97	90 - 110	P	07/31/2023	18:44	LB126674
	Lead	4890	5000	98	90 - 110	P	07/31/2023	18:44	LB126674
	Manganese	2430	2500	97	90 - 110	P	07/31/2023	18:44	LB126674
	Nickel	2440	2500	98	90 - 110	P	07/31/2023	18:44	LB126674
	Selenium	5090	5000	102	90 - 110	P	07/31/2023	18:44	LB126674
	Silver	1240	1250	99	90 - 110	P	07/31/2023	18:44	LB126674
	Zinc	2500	2500	100	90 - 110	P	07/31/2023	18:44	LB126674
CCV06	Arsenic	4990	5000	100	90 - 110	P	07/31/2023	19:27	LB126674
	Barium	9800	10000	98	90 - 110	P	07/31/2023	19:27	LB126674
	Beryllium	231	250	92	90 - 110	P	07/31/2023	19:27	LB126674
	Cadmium	2370	2500	95	90 - 110	P	07/31/2023	19:27	LB126674
	Chromium	957	1000	96	90 - 110	P	07/31/2023	19:27	LB126674
	Copper	1160	1250	93	90 - 110	P	07/31/2023	19:27	LB126674
	Lead	4810	5000	96	90 - 110	P	07/31/2023	19:27	LB126674
	Manganese	2370	2500	95	90 - 110	P	07/31/2023	19:27	LB126674

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LaBella Associates P.C. **SDG No.:** O3645

Contract: LABE01 **Lab Code:** CHEM **Case No.:** O3645 **SAS No.:** O3645

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
CCV06	Nickel	2400	2500	96	90 - 110	P	07/31/2023	19:27	LB126674
	Selenium	5010	5000	100	90 - 110	P	07/31/2023	19:27	LB126674
	Silver	1250	1250	100	90 - 110	P	07/31/2023	19:27	LB126674
	Zinc	2470	2500	99	90 - 110	P	07/31/2023	19:27	LB126674

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CRDL STANDARD FOR AA & ICP

Client: LaBella Associates P.C. **SDG No.:** O3645

Contract: LABE01 **Lab Code:** CHEM **Case No.:** O3645 **SAS No.:** O3645

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	0.20	0.2	98	40 - 160	CV	07/19/2023	09:59	LB126505
CRA	Mercury	0.17	0.2	87	40 - 160	CV	07/19/2023	11:58	LB126507
CRI01	Arsenic	15.7	20.0	78	40 - 160	P	07/19/2023	13:17	LB126517
	Barium	93.7	100	94	40 - 160	P	07/19/2023	13:17	LB126517
	Beryllium	5.81	6.0	97	40 - 160	P	07/19/2023	13:17	LB126517
	Cadmium	6.03	6.0	100	40 - 160	P	07/19/2023	13:17	LB126517
	Chromium	8.98	10.0	90	40 - 160	P	07/19/2023	13:17	LB126517
	Copper	20.5	20.0	103	40 - 160	P	07/19/2023	13:17	LB126517
	Lead	13.6	12.0	113	40 - 160	P	07/19/2023	13:17	LB126517
	Manganese	20.4	20.0	102	40 - 160	P	07/19/2023	13:17	LB126517
	Nickel	36.2	40.0	91	40 - 160	P	07/19/2023	13:17	LB126517
	Selenium	20.2	20.0	101	40 - 160	P	07/19/2023	13:17	LB126517
	Silver	10.1	10.0	102	40 - 160	P	07/19/2023	13:17	LB126517
	Zinc	39.4	40.0	99	40 - 160	P	07/19/2023	13:17	LB126517
CRI01	Arsenic	22.1	20.0	110	40 - 160	P	07/31/2023	13:51	LB126674
	Barium	96.4	100	96	40 - 160	P	07/31/2023	13:51	LB126674
	Beryllium	5.86	6.0	98	40 - 160	P	07/31/2023	13:51	LB126674
	Cadmium	6.25	6.0	104	40 - 160	P	07/31/2023	13:51	LB126674
	Chromium	9.68	10.0	97	40 - 160	P	07/31/2023	13:51	LB126674
	Copper	20.1	20.0	101	40 - 160	P	07/31/2023	13:51	LB126674
	Lead	11.9	12.0	100	40 - 160	P	07/31/2023	13:51	LB126674
	Manganese	20.3	20.0	102	40 - 160	P	07/31/2023	13:51	LB126674
	Nickel	37.9	40.0	95	40 - 160	P	07/31/2023	13:51	LB126674
	Selenium	24.4	20.0	122	40 - 160	P	07/31/2023	13:51	LB126674
	Silver	10.4	10.0	104	40 - 160	P	07/31/2023	13:51	LB126674
	Zinc	40.8	40.0	102	40 - 160	P	07/31/2023	13:51	LB126674

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LaBella Associates P.C. **SDG No.:** O3645

Contract: LABE01 **Lab Code:** CHEM **Case No.:** O3645 **SAS No.:** O3645

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB75	Mercury	0.20	+/-0.20	U	0.20	CV	07/19/2023	09:52	LB126505

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LaBella Associates P.C. **SDG No.:** O3645

Contract: LABE01 **Lab Code:** CHEM **Case No.:** O3645 **SAS No.:** O3645

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB61	Mercury	0.20	+/-0.20	U	0.20	CV	07/19/2023	09:57	LB126505
CCB62	Mercury	0.20	+/-0.20	U	0.20	CV	07/19/2023	10:24	LB126505
CCB63	Mercury	0.20	+/-0.20	U	0.20	CV	07/19/2023	10:33	LB126505

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LaBella Associates P.C. **SDG No.:** O3645

Contract: LABE01 **Lab Code:** CHEM **Case No.:** O3645 **SAS No.:** O3645

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB76	Mercury	0.20	+/-0.20	U	0.20	CV	07/19/2023	11:51	LB126507

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LaBella Associates P.C. **SDG No.:** O3645

Contract: LABE01 **Lab Code:** CHEM **Case No.:** O3645 **SAS No.:** O3645

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB64	Mercury	0.20	+/-0.20	U	0.20	CV	07/19/2023	11:55	LB126507
CCB65	Mercury	0.20	+/-0.20	U	0.20	CV	07/19/2023	12:25	LB126507
CCB66	Mercury	0.20	+/-0.20	U	0.20	CV	07/19/2023	12:53	LB126507
CCB67	Mercury	0.20	+/-0.20	U	0.20	CV	07/19/2023	13:19	LB126507
CCB68	Mercury	0.20	+/-0.20	U	0.20	CV	07/19/2023	13:47	LB126507
CCB69	Mercury	0.20	+/-0.20	U	0.20	CV	07/19/2023	14:09	LB126507
CCB70	Mercury	0.20	+/-0.20	U	0.20	CV	07/19/2023	14:44	LB126507
CCB71	Mercury	0.20	+/-0.20	U	0.20	CV	07/19/2023	15:02	LB126507

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LaBella Associates P.C. **SDG No.:** O3645

Contract: LABE01 **Lab Code:** CHEM **Case No.:** O3645 **SAS No.:** O3645

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Arsenic	20.0	+/-20.0	U	20.0	P	07/19/2023	13:13	LB126517
	Barium	100	+/-100	U	100	P	07/19/2023	13:13	LB126517
	Beryllium	6.00	+/-6.00	U	6.00	P	07/19/2023	13:13	LB126517
	Cadmium	6.00	+/-6.00	U	6.00	P	07/19/2023	13:13	LB126517
	Chromium	10.0	+/-10.0	U	10.0	P	07/19/2023	13:13	LB126517
	Copper	20.0	+/-20.0	U	20.0	P	07/19/2023	13:13	LB126517
	Lead	12.0	+/-12.0	U	12.0	P	07/19/2023	13:13	LB126517
	Manganese	20.0	+/-20.0	U	20.0	P	07/19/2023	13:13	LB126517
	Nickel	40.0	+/-40.0	U	40.0	P	07/19/2023	13:13	LB126517
	Selenium	20.0	+/-20.0	U	20.0	P	07/19/2023	13:13	LB126517
	Silver	10.0	+/-10.0	U	10.0	P	07/19/2023	13:13	LB126517
	Zinc	40.0	+/-40.0	U	40.0	P	07/19/2023	13:13	LB126517

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LaBella Associates P.C. **SDG No.:** O3645

Contract: LABE01 **Lab Code:** CHEM **Case No.:** O3645 **SAS No.:** O3645

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Arsenic	20.0	+/-20.0	U	20.0	P	07/19/2023	13:50	LB126517
	Barium	100	+/-100	U	100	P	07/19/2023	13:50	LB126517
	Beryllium	6.00	+/-6.00	U	6.00	P	07/19/2023	13:50	LB126517
	Cadmium	6.00	+/-6.00	U	6.00	P	07/19/2023	13:50	LB126517
	Chromium	10.0	+/-10.0	U	10.0	P	07/19/2023	13:50	LB126517
	Copper	20.0	+/-20.0	U	20.0	P	07/19/2023	13:50	LB126517
	Lead	12.0	+/-12.0	U	12.0	P	07/19/2023	13:50	LB126517
	Manganese	20.0	+/-20.0	U	20.0	P	07/19/2023	13:50	LB126517
	Nickel	40.0	+/-40.0	U	40.0	P	07/19/2023	13:50	LB126517
	Selenium	20.0	+/-20.0	U	20.0	P	07/19/2023	13:50	LB126517
	Silver	10.0	+/-10.0	U	10.0	P	07/19/2023	13:50	LB126517
	Zinc	40.0	+/-40.0	U	40.0	P	07/19/2023	13:50	LB126517
CCB02	Arsenic	20.0	+/-20.0	U	20.0	P	07/19/2023	14:58	LB126517
	Barium	100	+/-100	U	100	P	07/19/2023	14:58	LB126517
	Beryllium	6.00	+/-6.00	U	6.00	P	07/19/2023	14:58	LB126517
	Cadmium	6.00	+/-6.00	U	6.00	P	07/19/2023	14:58	LB126517
	Chromium	10.0	+/-10.0	U	10.0	P	07/19/2023	14:58	LB126517
	Copper	20.0	+/-20.0	U	20.0	P	07/19/2023	14:58	LB126517
	Lead	12.0	+/-12.0	U	12.0	P	07/19/2023	14:58	LB126517
	Manganese	20.0	+/-20.0	U	20.0	P	07/19/2023	14:58	LB126517
	Nickel	40.0	+/-40.0	U	40.0	P	07/19/2023	14:58	LB126517
	Selenium	20.0	+/-20.0	U	20.0	P	07/19/2023	14:58	LB126517
	Silver	10.0	+/-10.0	U	10.0	P	07/19/2023	14:58	LB126517
	Zinc	40.0	+/-40.0	U	40.0	P	07/19/2023	14:58	LB126517
CCB03	Arsenic	20.0	+/-20.0	U	20.0	P	07/19/2023	16:07	LB126517
	Barium	100	+/-100	U	100	P	07/19/2023	16:07	LB126517
	Beryllium	6.00	+/-6.00	U	6.00	P	07/19/2023	16:07	LB126517
	Cadmium	6.00	+/-6.00	U	6.00	P	07/19/2023	16:07	LB126517
	Chromium	10.0	+/-10.0	U	10.0	P	07/19/2023	16:07	LB126517
	Copper	20.0	+/-20.0	U	20.0	P	07/19/2023	16:07	LB126517
	Lead	12.0	+/-12.0	U	12.0	P	07/19/2023	16:07	LB126517
	Manganese	20.0	+/-20.0	U	20.0	P	07/19/2023	16:07	LB126517
	Nickel	40.0	+/-40.0	U	40.0	P	07/19/2023	16:07	LB126517
	Selenium	20.0	+/-20.0	U	20.0	P	07/19/2023	16:07	LB126517
	Silver	10.0	+/-10.0	U	10.0	P	07/19/2023	16:07	LB126517
	Zinc	40.0	+/-40.0	U	40.0	P	07/19/2023	16:07	LB126517
CCB04	Arsenic	20.0	+/-20.0	U	20.0	P	07/19/2023	16:55	LB126517
	Barium	100	+/-100	U	100	P	07/19/2023	16:55	LB126517
	Beryllium	6.00	+/-6.00	U	6.00	P	07/19/2023	16:55	LB126517

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LaBella Associates P.C. **SDG No.:** O3645

Contract: LABE01 **Lab Code:** CHEM **Case No.:** O3645 **SAS No.:** O3645

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB04	Cadmium	6.00	+/-6.00	U	6.00	P	07/19/2023	16:55	LB126517
	Chromium	10.0	+/-10.0	U	10.0	P	07/19/2023	16:55	LB126517
	Copper	20.0	+/-20.0	U	20.0	P	07/19/2023	16:55	LB126517
	Lead	12.0	+/-12.0	U	12.0	P	07/19/2023	16:55	LB126517
	Manganese	20.0	+/-20.0	U	20.0	P	07/19/2023	16:55	LB126517
	Nickel	40.0	+/-40.0	U	40.0	P	07/19/2023	16:55	LB126517
	Selenium	20.0	+/-20.0	U	20.0	P	07/19/2023	16:55	LB126517
	Silver	10.0	+/-10.0	U	10.0	P	07/19/2023	16:55	LB126517
	Zinc	40.0	+/-40.0	U	40.0	P	07/19/2023	16:55	LB126517
CCB05	Arsenic	20.0	+/-20.0	U	20.0	P	07/19/2023	17:48	LB126517
	Barium	100	+/-100	U	100	P	07/19/2023	17:48	LB126517
	Beryllium	6.00	+/-6.00	U	6.00	P	07/19/2023	17:48	LB126517
	Cadmium	6.00	+/-6.00	U	6.00	P	07/19/2023	17:48	LB126517
	Chromium	10.0	+/-10.0	U	10.0	P	07/19/2023	17:48	LB126517
	Copper	20.0	+/-20.0	U	20.0	P	07/19/2023	17:48	LB126517
	Lead	12.0	+/-12.0	U	12.0	P	07/19/2023	17:48	LB126517
	Manganese	20.0	+/-20.0	U	20.0	P	07/19/2023	17:48	LB126517
	Nickel	40.0	+/-40.0	U	40.0	P	07/19/2023	17:48	LB126517
	Selenium	20.0	+/-20.0	U	20.0	P	07/19/2023	17:48	LB126517
	Silver	10.0	+/-10.0	U	10.0	P	07/19/2023	17:48	LB126517
	Zinc	40.0	+/-40.0	U	40.0	P	07/19/2023	17:48	LB126517
CCB06	Arsenic	20.0	+/-20.0	U	20.0	P	07/19/2023	18:43	LB126517
	Barium	100	+/-100	U	100	P	07/19/2023	18:43	LB126517
	Beryllium	6.00	+/-6.00	U	6.00	P	07/19/2023	18:43	LB126517
	Cadmium	6.00	+/-6.00	U	6.00	P	07/19/2023	18:43	LB126517
	Chromium	10.0	+/-10.0	U	10.0	P	07/19/2023	18:43	LB126517
	Copper	20.0	+/-20.0	U	20.0	P	07/19/2023	18:43	LB126517
	Lead	12.0	+/-12.0	U	12.0	P	07/19/2023	18:43	LB126517
	Manganese	20.0	+/-20.0	U	20.0	P	07/19/2023	18:43	LB126517
	Nickel	40.0	+/-40.0	U	40.0	P	07/19/2023	18:43	LB126517
	Selenium	20.0	+/-20.0	U	20.0	P	07/19/2023	18:43	LB126517
	Silver	10.0	+/-10.0	U	10.0	P	07/19/2023	18:43	LB126517
	Zinc	40.0	+/-40.0	U	40.0	P	07/19/2023	18:43	LB126517
CCB07	Arsenic	20.0	+/-20.0	U	20.0	P	07/19/2023	19:30	LB126517
	Barium	100	+/-100	U	100	P	07/19/2023	19:30	LB126517
	Beryllium	6.00	+/-6.00	U	6.00	P	07/19/2023	19:30	LB126517
	Cadmium	6.00	+/-6.00	U	6.00	P	07/19/2023	19:30	LB126517
	Chromium	10.0	+/-10.0	U	10.0	P	07/19/2023	19:30	LB126517
	Copper	20.0	+/-20.0	U	20.0	P	07/19/2023	19:30	LB126517

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LaBella Associates P.C. **SDG No.:** O3645

Contract: LABE01 **Lab Code:** CHEM **Case No.:** O3645 **SAS No.:** O3645

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB07	Lead	12.0	+/-12.0	U	12.0	P	07/19/2023	19:30	LB126517
	Manganese	20.0	+/-20.0	U	20.0	P	07/19/2023	19:30	LB126517
	Nickel	40.0	+/-40.0	U	40.0	P	07/19/2023	19:30	LB126517
	Selenium	20.0	+/-20.0	U	20.0	P	07/19/2023	19:30	LB126517
	Silver	10.0	+/-10.0	U	10.0	P	07/19/2023	19:30	LB126517
	Zinc	40.0	+/-40.0	U	40.0	P	07/19/2023	19:30	LB126517
CCB08	Arsenic	20.0	+/-20.0	U	20.0	P	07/19/2023	20:18	LB126517
	Barium	100	+/-100	U	100	P	07/19/2023	20:18	LB126517
	Beryllium	6.00	+/-6.00	U	6.00	P	07/19/2023	20:18	LB126517
	Cadmium	6.00	+/-6.00	U	6.00	P	07/19/2023	20:18	LB126517
	Chromium	10.0	+/-10.0	U	10.0	P	07/19/2023	20:18	LB126517
	Copper	20.0	+/-20.0	U	20.0	P	07/19/2023	20:18	LB126517
	Lead	12.0	+/-12.0	U	12.0	P	07/19/2023	20:18	LB126517
	Manganese	20.0	+/-20.0	U	20.0	P	07/19/2023	20:18	LB126517
	Nickel	40.0	+/-40.0	U	40.0	P	07/19/2023	20:18	LB126517
	Selenium	20.0	+/-20.0	U	20.0	P	07/19/2023	20:18	LB126517
	Silver	10.0	+/-10.0	U	10.0	P	07/19/2023	20:18	LB126517
	Zinc	40.0	+/-40.0	U	40.0	P	07/19/2023	20:18	LB126517
CCB09	Arsenic	20.0	+/-20.0	U	20.0	P	07/19/2023	21:07	LB126517
	Barium	100	+/-100	U	100	P	07/19/2023	21:07	LB126517
	Beryllium	6.00	+/-6.00	U	6.00	P	07/19/2023	21:07	LB126517
	Cadmium	6.00	+/-6.00	U	6.00	P	07/19/2023	21:07	LB126517
	Chromium	10.0	+/-10.0	U	10.0	P	07/19/2023	21:07	LB126517
	Copper	20.0	+/-20.0	U	20.0	P	07/19/2023	21:07	LB126517
	Lead	12.0	+/-12.0	U	12.0	P	07/19/2023	21:07	LB126517
	Manganese	20.0	+/-20.0	U	20.0	P	07/19/2023	21:07	LB126517
	Nickel	40.0	+/-40.0	U	40.0	P	07/19/2023	21:07	LB126517
	Selenium	20.0	+/-20.0	U	20.0	P	07/19/2023	21:07	LB126517
	Silver	10.0	+/-10.0	U	10.0	P	07/19/2023	21:07	LB126517
	Zinc	40.0	+/-40.0	U	40.0	P	07/19/2023	21:07	LB126517
CCB10	Arsenic	20.0	+/-20.0	U	20.0	P	07/19/2023	21:22	LB126517
	Barium	100	+/-100	U	100	P	07/19/2023	21:22	LB126517
	Beryllium	6.00	+/-6.00	U	6.00	P	07/19/2023	21:22	LB126517
	Cadmium	6.00	+/-6.00	U	6.00	P	07/19/2023	21:22	LB126517
	Chromium	10.0	+/-10.0	U	10.0	P	07/19/2023	21:22	LB126517
	Copper	20.0	+/-20.0	U	20.0	P	07/19/2023	21:22	LB126517
	Lead	12.0	+/-12.0	U	12.0	P	07/19/2023	21:22	LB126517
	Manganese	20.0	+/-20.0	U	20.0	P	07/19/2023	21:22	LB126517
	Nickel	40.0	+/-40.0	U	40.0	P	07/19/2023	21:22	LB126517

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LaBella Associates P.C. **SDG No.:** O3645

Contract: LABE01 **Lab Code:** CHEM **Case No.:** O3645 **SAS No.:** O3645

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB10	Selenium	20.0	+/-20.0	U	20.0	P	07/19/2023	21:22	LB126517
	Silver	10.0	+/-10.0	U	10.0	P	07/19/2023	21:22	LB126517
	Zinc	40.0	+/-40.0	U	40.0	P	07/19/2023	21:22	LB126517

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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LaBella Associates P.C. **SDG No.:** O3645

Contract: LABE01 **Lab Code:** CHEM **Case No.:** O3645 **SAS No.:** O3645

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Arsenic	20.0	+/-20.0	U	20.0	P	07/31/2023	13:47	LB126674
	Barium	100	+/-100	U	100	P	07/31/2023	13:47	LB126674
	Beryllium	6.00	+/-6.00	U	6.00	P	07/31/2023	13:47	LB126674
	Cadmium	6.00	+/-6.00	U	6.00	P	07/31/2023	13:47	LB126674
	Chromium	10.0	+/-10.0	U	10.0	P	07/31/2023	13:47	LB126674
	Copper	20.0	+/-20.0	U	20.0	P	07/31/2023	13:47	LB126674
	Lead	12.0	+/-12.0	U	12.0	P	07/31/2023	13:47	LB126674
	Manganese	20.0	+/-20.0	U	20.0	P	07/31/2023	13:47	LB126674
	Nickel	40.0	+/-40.0	U	40.0	P	07/31/2023	13:47	LB126674
	Selenium	20.0	+/-20.0	U	20.0	P	07/31/2023	13:47	LB126674
	Silver	10.0	+/-10.0	U	10.0	P	07/31/2023	13:47	LB126674
	Zinc	40.0	+/-40.0	U	40.0	P	07/31/2023	13:47	LB126674

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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LaBella Associates P.C. **SDG No.:** O3645

Contract: LABE01 **Lab Code:** CHEM **Case No.:** O3645 **SAS No.:** O3645

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Arsenic	20.0	+/-20.0	U	20.0	P	07/31/2023	14:07	LB126674
	Barium	100	+/-100	U	100	P	07/31/2023	14:07	LB126674
	Beryllium	6.00	+/-6.00	U	6.00	P	07/31/2023	14:07	LB126674
	Cadmium	6.00	+/-6.00	U	6.00	P	07/31/2023	14:07	LB126674
	Chromium	10.0	+/-10.0	U	10.0	P	07/31/2023	14:07	LB126674
	Copper	20.0	+/-20.0	U	20.0	P	07/31/2023	14:07	LB126674
	Lead	12.0	+/-12.0	U	12.0	P	07/31/2023	14:07	LB126674
	Manganese	20.0	+/-20.0	U	20.0	P	07/31/2023	14:07	LB126674
	Nickel	40.0	+/-40.0	U	40.0	P	07/31/2023	14:07	LB126674
	Selenium	20.0	+/-20.0	U	20.0	P	07/31/2023	14:07	LB126674
	Silver	10.0	+/-10.0	U	10.0	P	07/31/2023	14:07	LB126674
	Zinc	40.0	+/-40.0	U	40.0	P	07/31/2023	14:07	LB126674
CCB02	Arsenic	20.0	+/-20.0	U	20.0	P	07/31/2023	16:25	LB126674
	Barium	100	+/-100	U	100	P	07/31/2023	16:25	LB126674
	Beryllium	6.00	+/-6.00	U	6.00	P	07/31/2023	16:25	LB126674
	Cadmium	6.00	+/-6.00	U	6.00	P	07/31/2023	16:25	LB126674
	Chromium	10.0	+/-10.0	U	10.0	P	07/31/2023	16:25	LB126674
	Copper	20.0	+/-20.0	U	20.0	P	07/31/2023	16:25	LB126674
	Lead	12.0	+/-12.0	U	12.0	P	07/31/2023	16:25	LB126674
	Manganese	20.0	+/-20.0	U	20.0	P	07/31/2023	16:25	LB126674
	Nickel	40.0	+/-40.0	U	40.0	P	07/31/2023	16:25	LB126674
	Selenium	20.0	+/-20.0	U	20.0	P	07/31/2023	16:25	LB126674
	Silver	10.0	+/-10.0	U	10.0	P	07/31/2023	16:25	LB126674
	Zinc	40.0	+/-40.0	U	40.0	P	07/31/2023	16:25	LB126674
CCB03	Arsenic	20.0	+/-20.0	U	20.0	P	07/31/2023	17:13	LB126674
	Barium	100	+/-100	U	100	P	07/31/2023	17:13	LB126674
	Beryllium	6.00	+/-6.00	U	6.00	P	07/31/2023	17:13	LB126674
	Cadmium	6.00	+/-6.00	U	6.00	P	07/31/2023	17:13	LB126674
	Chromium	10.0	+/-10.0	U	10.0	P	07/31/2023	17:13	LB126674
	Copper	20.0	+/-20.0	U	20.0	P	07/31/2023	17:13	LB126674
	Lead	12.0	+/-12.0	U	12.0	P	07/31/2023	17:13	LB126674
	Manganese	20.0	+/-20.0	U	20.0	P	07/31/2023	17:13	LB126674
	Nickel	40.0	+/-40.0	U	40.0	P	07/31/2023	17:13	LB126674
	Selenium	20.0	+/-20.0	U	20.0	P	07/31/2023	17:13	LB126674
	Silver	10.0	+/-10.0	U	10.0	P	07/31/2023	17:13	LB126674
	Zinc	40.0	+/-40.0	U	40.0	P	07/31/2023	17:13	LB126674
CCB04	Arsenic	20.0	+/-20.0	U	20.0	P	07/31/2023	18:01	LB126674
	Barium	100	+/-100	U	100	P	07/31/2023	18:01	LB126674
	Beryllium	6.00	+/-6.00	U	6.00	P	07/31/2023	18:01	LB126674

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LaBella Associates P.C. **SDG No.:** O3645

Contract: LABE01 **Lab Code:** CHEM **Case No.:** O3645 **SAS No.:** O3645

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB04	Cadmium	6.00	+/-6.00	U	6.00	P	07/31/2023	18:01	LB126674
	Chromium	10.0	+/-10.0	U	10.0	P	07/31/2023	18:01	LB126674
	Copper	20.0	+/-20.0	U	20.0	P	07/31/2023	18:01	LB126674
	Lead	12.0	+/-12.0	U	12.0	P	07/31/2023	18:01	LB126674
	Manganese	20.0	+/-20.0	U	20.0	P	07/31/2023	18:01	LB126674
	Nickel	40.0	+/-40.0	U	40.0	P	07/31/2023	18:01	LB126674
	Selenium	20.0	+/-20.0	U	20.0	P	07/31/2023	18:01	LB126674
	Silver	10.0	+/-10.0	U	10.0	P	07/31/2023	18:01	LB126674
	Zinc	40.0	+/-40.0	U	40.0	P	07/31/2023	18:01	LB126674
CCB05	Arsenic	20.0	+/-20.0	U	20.0	P	07/31/2023	18:48	LB126674
	Barium	100	+/-100	U	100	P	07/31/2023	18:48	LB126674
	Beryllium	6.00	+/-6.00	U	6.00	P	07/31/2023	18:48	LB126674
	Cadmium	6.00	+/-6.00	U	6.00	P	07/31/2023	18:48	LB126674
	Chromium	10.0	+/-10.0	U	10.0	P	07/31/2023	18:48	LB126674
	Copper	20.0	+/-20.0	U	20.0	P	07/31/2023	18:48	LB126674
	Lead	12.0	+/-12.0	U	12.0	P	07/31/2023	18:48	LB126674
	Manganese	20.0	+/-20.0	U	20.0	P	07/31/2023	18:48	LB126674
	Nickel	40.0	+/-40.0	U	40.0	P	07/31/2023	18:48	LB126674
	Selenium	20.0	+/-20.0	U	20.0	P	07/31/2023	18:48	LB126674
	Silver	10.0	+/-10.0	U	10.0	P	07/31/2023	18:48	LB126674
	Zinc	40.0	+/-40.0	U	40.0	P	07/31/2023	18:48	LB126674
CCB06	Arsenic	20.0	+/-20.0	U	20.0	P	07/31/2023	19:31	LB126674
	Barium	100	+/-100	U	100	P	07/31/2023	19:31	LB126674
	Beryllium	6.00	+/-6.00	U	6.00	P	07/31/2023	19:31	LB126674
	Cadmium	6.00	+/-6.00	U	6.00	P	07/31/2023	19:31	LB126674
	Chromium	10.0	+/-10.0	U	10.0	P	07/31/2023	19:31	LB126674
	Copper	20.0	+/-20.0	U	20.0	P	07/31/2023	19:31	LB126674
	Lead	12.0	+/-12.0	U	12.0	P	07/31/2023	19:31	LB126674
	Manganese	20.0	+/-20.0	U	20.0	P	07/31/2023	19:31	LB126674
	Nickel	40.0	+/-40.0	U	40.0	P	07/31/2023	19:31	LB126674
	Selenium	20.0	+/-20.0	U	20.0	P	07/31/2023	19:31	LB126674
	Silver	10.0	+/-10.0	U	10.0	P	07/31/2023	19:31	LB126674
	Zinc	40.0	+/-40.0	U	40.0	P	07/31/2023	19:31	LB126674

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Metals
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PREPARATION BLANK SUMMARY

Client: LaBella Associates P.C. **SDG No.:** O3645

Instrument: CV1

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB154278BL		**SOLID**		**Batch Number:**	**PB154278**		**Prep Date:**	**07/18/2023**	
	Mercury	0.013	<0.013	U	0.013	CV	07/19/2023	13:04	LB126507

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB154279BL		**WATER**		**Batch Number:**	**PB154279**		**Prep Date:**	**07/18/2023**	
	Mercury	0.20	<0.20	U	0.20	CV	07/19/2023	10:06	LB126505

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Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: LaBella Associates P.C. **SDG No.:** O3645

Instrument: P5

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB154230BL		**WATER**		**Batch Number:**	**PB154230**		**Prep Date:**	**07/17/2023**	
	Arsenic	10.0	<10.0	U	10.0	P	07/19/2023	15:17	LB126517
	Barium	50.0	<50.0	U	50.0	P	07/19/2023	15:17	LB126517
	Beryllium	3.00	<3.00	U	3.00	P	07/19/2023	15:17	LB126517
	Cadmium	3.00	<3.00	U	3.00	P	07/19/2023	15:17	LB126517
	Chromium	5.00	<5.00	U	5.00	P	07/19/2023	15:17	LB126517
	Copper	10.0	<10.0	U	10.0	P	07/19/2023	15:17	LB126517
	Lead	6.00	<6.00	U	6.00	P	07/19/2023	15:17	LB126517
	Manganese	10.0	<10.0	U	10.0	P	07/19/2023	15:17	LB126517
	Nickel	20.0	<20.0	U	20.0	P	07/19/2023	15:17	LB126517
	Selenium	10.0	<10.0	U	10.0	P	07/19/2023	15:17	LB126517
	Silver	5.00	<5.00	U	5.00	P	07/19/2023	15:17	LB126517
	Zinc	20.0	<20.0	U	20.0	P	07/19/2023	15:17	LB126517

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB154232BL		**SOLID**		**Batch Number:**	**PB154232**		**Prep Date:**	**07/18/2023**	
	Arsenic	0.91	<0.91	U	0.91	P	07/19/2023	16:11	LB126517
	Barium	4.55	<4.55	U	4.55	P	07/19/2023	16:11	LB126517
	Beryllium	0.27	<0.27	U	0.27	P	07/19/2023	16:11	LB126517
	Cadmium	0.27	<0.27	U	0.27	P	07/19/2023	16:11	LB126517
	Chromium	0.46	<0.46	U	0.46	P	07/19/2023	16:11	LB126517
	Copper	0.91	<0.91	U	0.91	P	07/19/2023	16:11	LB126517
	Lead	0.55	<0.55	U	0.55	P	07/19/2023	16:11	LB126517
	Manganese	0.91	<0.91	U	0.91	P	07/19/2023	16:11	LB126517
	Nickel	1.82	<1.82	U	1.82	P	07/19/2023	16:11	LB126517
	Selenium	0.91	<0.91	U	0.91	P	07/19/2023	16:11	LB126517
	Silver	0.46	<0.46	U	0.46	P	07/19/2023	16:11	LB126517
	Zinc	1.82	<1.82	U	1.82	P	07/19/2023	16:11	LB126517

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Metals
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INTERFERENCE CHECK SAMPLE

Client: LaBella Associates P.C. **SDG No.:** O3645

Contract: LABE01 **Lab Code:** CHEM **Case No.:** O3645 **SAS No.:** O3645

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
ICSA01	Arsenic	-3.33			-20	20	07/19/2023	13:21	LB126517
	Barium	5.90	6.0	98	-94	106	07/19/2023	13:21	LB126517
	Beryllium	1.04			-6	6	07/19/2023	13:21	LB126517
	Cadmium	1.04	1.0	104	-5	7	07/19/2023	13:21	LB126517
	Chromium	48.5	52.0	93	42	62	07/19/2023	13:21	LB126517
	Copper	-2.10	2.0	105	-18	22	07/19/2023	13:21	LB126517
	Lead	-2.93			-12	12	07/19/2023	13:21	LB126517
	Manganese	15.9	7.0	227	-13	27	07/19/2023	13:21	LB126517
	Nickel	0.98	2.0	49	-38	42	07/19/2023	13:21	LB126517
	Selenium	-2.32			-20	20	07/19/2023	13:21	LB126517
	Silver	-2.78			-10	10	07/19/2023	13:21	LB126517
	Zinc	4.30			-40	40	07/19/2023	13:21	LB126517
ICSAB01	Arsenic	102	100	102	85	120	07/19/2023	13:25	LB126517
	Barium	537	540	99	440	640	07/19/2023	13:25	LB126517
	Beryllium	509	500	102	430	580	07/19/2023	13:25	LB126517
	Cadmium	1060	970	109	820	1100	07/19/2023	13:25	LB126517
	Chromium	562	540	104	460	620	07/19/2023	13:25	LB126517
	Copper	505	510	99	430	590	07/19/2023	13:25	LB126517
	Lead	56.7	49.0	116	37	61	07/19/2023	13:25	LB126517
	Manganese	525	510	103	430	590	07/19/2023	13:25	LB126517
	Nickel	1030	950	108	810	1100	07/19/2023	13:25	LB126517
	Selenium	44.6	46.0	97	26	66	07/19/2023	13:25	LB126517
	Silver	177	200	88	170	230	07/19/2023	13:25	LB126517
	Zinc	1060	950	112	810	1100	07/19/2023	13:25	LB126517
ICSA01	Arsenic	-19.9			-20	20	07/31/2023	13:55	LB126674
	Barium	5.67	6.0	94	-94	106	07/31/2023	13:55	LB126674
	Beryllium	0.96			-6	6	07/31/2023	13:55	LB126674
	Cadmium	1.09	1.0	109	-5	7	07/31/2023	13:55	LB126674
	Chromium	49.1	52.0	94	42	62	07/31/2023	13:55	LB126674
	Copper	6.72	2.0	336	-18	22	07/31/2023	13:55	LB126674
	Lead	-1.35			-12	12	07/31/2023	13:55	LB126674
	Manganese	12.2	7.0	174	-13	27	07/31/2023	13:55	LB126674
	Nickel	0.53	2.0	26	-38	42	07/31/2023	13:55	LB126674
	Selenium	19.5			-20	20	07/31/2023	13:55	LB126674
	Silver	-2.56			-10	10	07/31/2023	13:55	LB126674
	Zinc	2.74			-40	40	07/31/2023	13:55	LB126674
ICSAB01	Arsenic	90.1	100	90	85	120	07/31/2023	13:59	LB126674
	Barium	524	540	97	440	640	07/31/2023	13:59	LB126674
	Beryllium	502	500	100	430	580	07/31/2023	13:59	LB126674
	Cadmium	1050	970	108	820	1100	07/31/2023	13:59	LB126674
	Chromium	560	540	104	460	620	07/31/2023	13:59	LB126674
	Copper	504	510	99	430	590	07/31/2023	13:59	LB126674

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Metals
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INTERFERENCE CHECK SAMPLE

Client: LaBella Associates P.C. **SDG No.:** O3645

Contract: LABE01 **Lab Code:** CHEM **Case No.:** O3645 **SAS No.:** O3645

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	Lead	53.6	49.0	109	37	61	07/31/2023	13:59	LB126674
	Manganese	511	510	100	430	590	07/31/2023	13:59	LB126674
	Nickel	1020	950	107	810	1100	07/31/2023	13:59	LB126674
	Selenium	60.4	46.0	131	26	66	07/31/2023	13:59	LB126674
	Silver	218	200	109	170	230	07/31/2023	13:59	LB126674
	Zinc	1060	950	112	810	1100	07/31/2023	13:59	LB126674

METAL QC DATA

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metals
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MATRIX SPIKE SUMMARY

client: LaBella Associates P.C. **level:** low **sdg no.:** O3645

contract: LABE01 **lab code:** CHEM **case no.:** O3645 **sas no.:** O3645

matrix: Water **sample id:** O3637-01 **client id:** A508MS

Percent Solids for Sample: NA **Spiked ID:** O3637-01MS **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Arsenic	ug/L	75 - 125	436		13.2		400	106		P
Barium	ug/L	75 - 125	430		383		100	47	N	P
Beryllium	ug/L	75 - 125	91.3		0.64	J	100	91		P
Cadmium	ug/L	75 - 125	99.7		1.40	J	100	98		P
Chromium	ug/L	75 - 125	246		59.9		200	93		P
Copper	ug/L	75 - 125	198		58.4		150	93		P
Lead	ug/L	75 - 125	706		240		500	93		P
Manganese	ug/L	75 - 125	1090		1180		100	-89		P
Mercury	ug/L	75 - 125	6.37		2.93		4.0	86		CV
Nickel	ug/L	75 - 125	259		18.0	J	250	97		P
Selenium	ug/L	75 - 125	941		10.0	U	1000	94		P
Silver	ug/L	75 - 125	37.4		5.00	U	37.5	100		P
Zinc	ug/L	75 - 125	401		337		100	64	N	P

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metals
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MATRIX SPIKE DUPLICATE SUMMARY

client: LaBella Associates P.C. **level:** low **sdg no.:** O3645

contract: LABE01 **lab code:** CHEM **case no.:** O3645 **sas no.:** O3645

matrix: Water **sample id:** O3637-01 **client id:** A508MSD

Percent Solids for Sample: NA **Spiked ID:** O3637-01MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Arsenic	ug/L	75 - 125	430		13.2		400	104		P
Barium	ug/L	75 - 125	423		383		100	40	N	P
Beryllium	ug/L	75 - 125	90.9		0.64	J	100	90		P
Cadmium	ug/L	75 - 125	98.2		1.40	J	100	97		P
Chromium	ug/L	75 - 125	242		59.9		200	91		P
Copper	ug/L	75 - 125	195		58.4		150	91		P
Lead	ug/L	75 - 125	693		240		500	91		P
Manganese	ug/L	75 - 125	1070		1180		100	-108		P
Mercury	ug/L	75 - 125	6.40		2.93		4.0	87		CV
Nickel	ug/L	75 - 125	255		18.0	J	250	95		P
Selenium	ug/L	75 - 125	921		10.0	U	1000	92		P
Silver	ug/L	75 - 125	36.7		5.00	U	37.5	98		P
Zinc	ug/L	75 - 125	390		337		100	54	N	P

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metals
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MATRIX SPIKE SUMMARY

client: LaBella Associates P.C. **level:** low **sdg no.:** O3645

contract: LABE01 **lab code:** CHEM **case no.:** O3645 **sas no.:** O3645

matrix: Solid **sample id:** O3645-02 **client id:** SB-04-(1-5)MS

Percent Solids for Sample: 91.3 **Spiked ID:** O3645-09 **Percent Solids for Spike Sample:** 91.3

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Arsenic	mg/Kg	75 - 125	35.0		1.15		36.7	92		P
Barium	mg/Kg	75 - 125	35.4		27.7		9.2	84		P
Beryllium	mg/Kg	75 - 125	6.97		0.23	J	9.2	73	N	P
Cadmium	mg/Kg	75 - 125	10.6		1.81		9.2	96		P
Chromium	mg/Kg	75 - 125	17.4		4.23		18.3	72	N	P
Copper	mg/Kg	75 - 125	26.9		15.6		13.7	82		P
Lead	mg/Kg	75 - 125	133		84.4		45.8	105		P
Manganese	mg/Kg	75 - 125	490		483		9.2	76		P
Mercury	mg/Kg	80 - 120	6.41	D	6.05	D	0.27	135		CV
Nickel	mg/Kg	75 - 125	31.2		9.56		22.9	94		P
Selenium	mg/Kg	75 - 125	73.5		0.90	U	91.7	80		P
Silver	mg/Kg	75 - 125	2.83		0.45	U	3.4	82		P
Zinc	mg/Kg	75 - 125	330		314		9.2	171		P

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metals
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MATRIX SPIKE DUPLICATE SUMMARY

client: LaBella Associates P.C. **level:** low **sdg no.:** O3645

contract: LABE01 **lab code:** CHEM **case no.:** O3645 **sas no.:** O3645

matrix: Solid **sample id:** O3645-02 **client id:** SB-04-(1-5)MSD

Percent Solids for Sample: 91.3 **Spiked ID:** O3645-10 **Percent Solids for Spike Sample:** 91.3

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Arsenic	mg/Kg	75 - 125	34.0		1.15		36.2	91		P
Barium	mg/Kg	75 - 125	40.4		27.7		9.1	140	N	P
Beryllium	mg/Kg	75 - 125	6.81		0.23	J	9.1	73	N	P
Cadmium	mg/Kg	75 - 125	10.3		1.81		9.1	94		P
Chromium	mg/Kg	75 - 125	16.9		4.23		18.1	70	N	P
Copper	mg/Kg	75 - 125	34.0		15.6		13.6	136	N	P
Lead	mg/Kg	75 - 125	133		84.4		45.3	107		P
Manganese	mg/Kg	75 - 125	496		483		9.1	136		P
Mercury	mg/Kg	80 - 120	6.17	D	6.05	D	0.27	45		CV
Nickel	mg/Kg	75 - 125	29.2		9.56		22.6	87		P
Selenium	mg/Kg	75 - 125	72.2		0.90	U	90.5	80		P
Silver	mg/Kg	75 - 125	2.80		0.45	U	3.4	82		P
Zinc	mg/Kg	75 - 125	299		314		9.1	-167		P

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Metals
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POST DIGEST SPIKE SUMMARY

Client: LaBella Associates P.C. **SDG No.:** O3645

Contract: LABE01 **Lab Code:** CHEM **Case No.:** O3645 **SAS No.:** O3645

Matrix: Water **Level:** LOW **Client ID:** A508A

Sample ID: O3637-01 **Spiked ID:** O3637-01A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Barium	ug/L	75 - 125	476		383		100	93		P
Zinc	ug/L	75 - 125	435		337		100	98		P

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Metals
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POST DIGEST SPIKE SUMMARY

Client: LaBella Associates P.C. **SDG No.:** O3645

Contract: LABE01 **Lab Code:** CHEM **Case No.:** O3645 **SAS No.:** O3645

Matrix: Solid **Level:** LOW **Client ID:** SB-04-(1-5)A

Sample ID: O3645-02 **Spiked ID:** O3645-02A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Barium	mg/Kg	75 - 125	33.5		27.7		9.00	65		P
Beryllium	mg/Kg	75 - 125	6.60		0.23	J	9.00	71		P
Chromium	mg/Kg	75 - 125	16.3		4.23		18.0	67		P
Copper	mg/Kg	75 - 125	26.8		15.6		13.5	83		P

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: LaBella Associates P.C. **Level:** LOW **SDG No.:** O3645

Contract: LABE01 **Lab Code:** CHEM **Case No.:** O3645 **SAS No.:** O3645

Matrix: Water **Sample ID:** O3637-01 **Client ID:** A508DUP

Percent Solids for Sample: NA **Duplicate ID** O3637-01DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Arsenic	ug/L	20	13.2		15.4		15		P
Barium	ug/L	20	383		381		1		P
Beryllium	ug/L	20	0.64	J	0.62	J	4		P
Cadmium	ug/L	20	1.40	J	1.40	J	0		P
Chromium	ug/L	20	59.9		60.7		1		P
Copper	ug/L	20	58.4		59.1		1		P
Lead	ug/L	20	240		244		2		P
Manganese	ug/L	20	1180		1180		0		P
Mercury	ug/L	20	2.93		2.48		17		CV
Nickel	ug/L	20	18.0	J	18.1	J	1		P
Selenium	ug/L	20	10.0	U	10.0	U			P
Silver	ug/L	20	5.00	U	5.00	U			P
Zinc	ug/L	20	337		342		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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Metals

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DUPLICATE SAMPLE SUMMARY

Client: LaBella Associates P.C. **Level:** LOW **SDG No.:** O3645

Contract: LABE01 **Lab Code:** CHEM **Case No.:** O3645 **SAS No.:** O3645

Matrix: Water **Sample ID:** O3637-01MS **Client ID:** A508MSD

Percent Solids for Sample: NA **Duplicate ID** O3637-01MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Arsenic	ug/L	20	436		430		1		P
Barium	ug/L	20	430		423		2		P
Beryllium	ug/L	20	91.3		90.9		0		P
Cadmium	ug/L	20	99.7		98.2		2		P
Chromium	ug/L	20	246		242		2		P
Copper	ug/L	20	198		195		2		P
Lead	ug/L	20	706		693		2		P
Manganese	ug/L	20	1090		1070		2		P
Mercury	ug/L	20	6.37		6.40		0		CV
Nickel	ug/L	20	259		255		2		P
Selenium	ug/L	20	941		921		2		P
Silver	ug/L	20	37.4		36.7		2		P
Zinc	ug/L	20	401		390		3		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: LaBella Associates P.C. **Level:** LOW **SDG No.:** O3645

Contract: LABE01 **Lab Code:** CHEM **Case No.:** O3645 **SAS No.:** O3645

Matrix: Solid **Sample ID:** O3645-02 **Client ID:** SB-04-(1-5)DUP

Percent Solids for Sample: 91.3 **Duplicate ID** O3645-02DUP **Percent Solids for Spike Sample:** 91.3

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Arsenic	mg/Kg	20	1.15		0.98		16		P
Barium	mg/Kg	20	27.7		27.2		2		P
Beryllium	mg/Kg	20	0.23	J	0.23	J	2		P
Cadmium	mg/Kg	20	1.81		1.81		0		P
Chromium	mg/Kg	20	4.23		4.28		1		P
Copper	mg/Kg	20	15.6		15.3		2		P
Lead	mg/Kg	20	84.4		84.7		0		P
Manganese	mg/Kg	20	483		472		2		P
Mercury	mg/Kg	20	6.05	D	6.66	D	10		CV
Nickel	mg/Kg	20	9.56		9.59		0		P
Selenium	mg/Kg	20	0.90	U	0.90	U			P
Silver	mg/Kg	20	0.45	U	0.45	U			P
Zinc	mg/Kg	20	314		318		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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Metals

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DUPLICATE SAMPLE SUMMARY

Client: LaBella Associates P.C. **Level:** LOW **SDG No.:** O3645

Contract: LABE01 **Lab Code:** CHEM **Case No.:** O3645 **SAS No.:** O3645

Matrix: Solid **Sample ID:** O3645-09 **Client ID:** SB-04-(1-5)MSD

Percent Solids for Sample: 91.3 **Duplicate ID** O3645-10 **Percent Solids for Spike Sample:** 91.3

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Arsenic	mg/Kg	20	35.0		34.0		3		P
Barium	mg/Kg	20	35.4		40.4		13		P
Beryllium	mg/Kg	20	6.97		6.81		2		P
Cadmium	mg/Kg	20	10.6		10.3		3		P
Chromium	mg/Kg	20	17.4		16.9		3		P
Copper	mg/Kg	20	26.9		34.0		23	*	P
Lead	mg/Kg	20	133		133		0		P
Manganese	mg/Kg	20	490		496		1		P
Mercury	mg/Kg	20	6.41	D	6.17	D	4		CV
Nickel	mg/Kg	20	31.2		29.2		7		P
Selenium	mg/Kg	20	73.5		72.2		2		P
Silver	mg/Kg	20	2.83		2.80		1		P
Zinc	mg/Kg	20	330		299		10		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

LABORATORY CONTROL SAMPLE SUMMARY

Client: LaBella Associates P.C. **SDG No.:** O3645

Contract: LABE01 **Lab Code:** CHEM **Case No.:** O3645 **SAS No.:** O3645

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB154230BS							
Arsenic	ug/L	400	414		104	80 - 120	P
Barium	ug/L	100	100		100	80 - 120	P
Beryllium	ug/L	100	94.8		95	80 - 120	P
Cadmium	ug/L	100	98.2		98	80 - 120	P
Chromium	ug/L	200	197		98	80 - 120	P
Copper	ug/L	150	154		103	80 - 120	P
Lead	ug/L	500	490		98	80 - 120	P
Manganese	ug/L	100	100		100	80 - 120	P
Nickel	ug/L	250	240		96	80 - 120	P
Selenium	ug/L	1000	1010		101	80 - 120	P
Silver	ug/L	37.5	37.4		100	80 - 120	P
Zinc	ug/L	100	102		102	80 - 120	P

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Metals

LABORATORY CONTROL SAMPLE SUMMARY

Client: LaBella Associates P.C. **SDG No.:** O3645

Contract: LABE01 **Lab Code:** CHEM **Case No.:** O3645 **SAS No.:** O3645

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB154232BS							
Arsenic	mg/Kg	36.7	38.4		105	80 - 120	P
Barium	mg/Kg	9.2	9.13		99	80 - 120	P
Beryllium	mg/Kg	9.2	8.60		94	80 - 120	P
Cadmium	mg/Kg	9.2	8.88		96	80 - 120	P
Chromium	mg/Kg	18.3	18.0		98	80 - 120	P
Copper	mg/Kg	13.8	14.2		103	80 - 120	P
Lead	mg/Kg	45.9	44.4		97	80 - 120	P
Manganese	mg/Kg	9.2	8.94		97	80 - 120	P
Nickel	mg/Kg	22.9	21.9		96	80 - 120	P
Selenium	mg/Kg	91.7	93.3		102	80 - 120	P
Silver	mg/Kg	3.4	3.41		100	80 - 120	P
Zinc	mg/Kg	9.2	9.36		102	80 - 120	P

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Metals

LABORATORY CONTROL SAMPLE SUMMARY

Client: LaBella Associates P.C. **SDG No.:** O3645

Contract: LABE01 **Lab Code:** CHEM **Case No.:** O3645 **SAS No.:** O3645

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB154278BS							
Mercury	mg/Kg	0.25	0.23		92	80 - 120	CV

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Metals

LABORATORY CONTROL SAMPLE SUMMARY

Client: LaBella Associates P.C. **SDG No.:** O3645

Contract: LABE01 **Lab Code:** CHEM **Case No.:** O3645 **SAS No.:** O3645

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB154279BS							
Mercury	ug/L	4.0	3.58		90	80 - 120	CV

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ICP SERIAL DILUTIONS

SAMPLE NO.

A508L

Lab Name: Chemtech Consulting Group **Contract:** LABE01

Lab Code: CHEM **Lb No.:** lb126517 **Lab Sample ID :** O3637-01L **SDG No.:** O3645

Matrix (soil/water): Water **Level (low/med):** LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Arsenic	13.2		19.2	J	45		P
Barium	383		393		3		P
Beryllium	0.64	J	0.70	J	9		P
Cadmium	1.40	J	1.22	J	13		P
Chromium	59.9		64.6		8		P
Copper	58.4		67.4		15		P
Lead	240		241		1		P
Manganese	1180		1250		6		P
Mercury	2.93		2.39		18		CV
Nickel	18.0	J	18.1	J	1		P
Selenium	10.0	U	50.0	U			P
Silver	5.00	U	25.0	U			P
Zinc	337		351		4		P

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Metals

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ICP SERIAL DILUTIONS

SAMPLE NO.

SB-04-(1-5)L

Lab Name: Chemtech Consulting Group **Contract:** LABE01

Lab Code: CHEM **Lb No.:** lb126517 **Lab Sample ID :** O3645-02L **SDG No.:** O3645

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
Arsenic	1.15		1.96	J	71		P
Barium	27.7		32.3		16		P
Beryllium	0.23	J	0.28	J	20		P
Cadmium	1.81		1.74		4		P
Chromium	4.23		5.50		30		P
Copper	15.6		17.9		15		P
Lead	84.4		85.9		2		P
Manganese	483		593		23		P
Mercury	6.05	D	6.12	D	1		CV
Nickel	9.56		9.69		1		P
Selenium	0.90	U	4.49	U			P
Silver	0.45	U	2.24	U			P
Zinc	314		382		22		P

METAL PREPARATION & INSTRUMENT DATA

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ICP INTERELEMENT CORRECTION FACTORS

Client: LaBella Associates P.C. **SDG No.:** O3645

Contract: LABE01 **Lab Code:** CHEM **Case No.:** O3645 **SAS No.:** O3645

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
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
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0000000	0.0007850	0.0000000	0.0000000
Lead	220.353	-0.0000920	0.0000000	0.0000380	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
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
Zinc	213.800	0.0000000	0.0000000	0.0001050	0.0000000	0.0000000

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ICP INTERELEMENT CORRECTION FACTORS

Client: LaBella Associates P.C. **SDG No.:** O3645

Contract: LABE01 **Lab Code:** CHEM **Case No.:** O3645 **SAS No.:** O3645

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
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
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0000000	0.0000000	0.0000000	0.0009530
Lead	220.353	0.0000000	0.0003170	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
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
Zinc	213.800	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

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ICP INTERELEMENT CORRECTION FACTORS

Client: LaBella Associates P.C. **SDG No.:** O3645

Contract: LABE01 **Lab Code:** CHEM **Case No.:** O3645 **SAS No.:** O3645

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
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
Chromium	267.716	0.0000000	0.0000000	0.0000070	0.0002200	0.0000000
Copper	224.700	0.0000000	0.0000000	0.0000000	0.0006510	0.0020500
Lead	220.353	0.0000000	0.0000000	0.0000000	0.0001400	-0.0008600
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
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
Zinc	213.800	0.0000000	0.0009010	0.0000000	0.0000000	0.0000000

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ICP INTERELEMENT CORRECTION FACTORS

Client: LaBella Associates P.C. **SDG No.:** O3645

Contract: LABE01 **Lab Code:** CHEM **Case No.:** O3645 **SAS No.:** O3645

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
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
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	-0.0047000	0.0036100	0.0000000	0.0000000
Lead	220.353	0.0000000	0.0006580	0.0000000	0.0000000	0.0001290
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
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
Zinc	213.800	0.0000000	0.0067600	0.0000000	0.0000000	0.0000000

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ICP INTERELEMENT CORRECTION FACTORS

Client: LaBella Associates P.C. **SDG No.:** O3645

Contract: LABE01 **Lab Code:** CHEM **Case No.:** O3645 **SAS No.:** O3645

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
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
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0001110	0.0000000
Copper	224.700	0.0000000	0.0003840	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	-0.0003610	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
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
Zinc	213.800	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

METAL PREPARATION & ANALYICAL SUMMARY

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SAMPLE PREPARATION SUMMARY

Client: LaBella Associates P.C. **SDG No.:** O3645

Contract: LABE01 **Lab Code:** CHEM **Method:**

Case No.: O3645 **SAS No.:** O3645

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB154230**						
O3637-01DUP	A508DUP	DUP	WATER	07/17/2023	50.0	25.0	
O3637-01MS	A508MS	MS	WATER	07/17/2023	50.0	25.0	
O3637-01MSD	A508MSD	MSD	WATER	07/17/2023	50.0	25.0	
O3645-08	RINSATE-BLANK	SAM	WATER	07/17/2023	50.0	25.0	
PB154230BL	PB154230BL	MB	WATER	07/17/2023	50.0	25.0	
PB154230BS	PB154230BS	LCS	WATER	07/17/2023	50.0	25.0	

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SAMPLE PREPARATION SUMMARY

Client: LaBella Associates P.C. **SDG No.:** O3645

Contract: LABE01 **Lab Code:** CHEM **Method:**

Case No.: O3645 **SAS No.:** O3645

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB154232**						
O3645-01	SB-02-(3-5)	SAM	SOLID	07/18/2023	2.04	100.0	86.30
O3645-02	SB-04-(1-5)	SAM	SOLID	07/18/2023	2.44	100.0	91.30
O3645-02DUP	SB-04-(1-5)DUP	DUP	SOLID	07/18/2023	2.43	100.0	91.30
O3645-03	SB-07-(1-3)	SAM	SOLID	07/18/2023	2.36	100.0	79.50
O3645-04	SB-08-(0.5-2.0)	SAM	SOLID	07/18/2023	2.14	100.0	74.60
O3645-05	SB-09-(2.0-4.0)	SAM	SOLID	07/18/2023	2.32	100.0	79.40
O3645-06	SB-10-(0.5-2.0)	SAM	SOLID	07/18/2023	2.42	100.0	83.30
O3645-07	DUP	SAM	SOLID	07/18/2023	2.32	100.0	80.80
O3645-09	SB-04-(1-5)MS	MS	SOLID	07/18/2023	2.39	100.0	91.30
O3645-10	SB-04-(1-5)MSD	MSD	SOLID	07/18/2023	2.42	100.0	91.30
PB154232BL	PB154232BL	MB	SOLID	07/18/2023	2.20	100.0	100.00
PB154232BS	PB154232BS	LCS	SOLID	07/18/2023	2.18	100.0	100.00

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SAMPLE PREPARATION SUMMARY

Client: LaBella Associates P.C. **SDG No.:** O3645

Contract: LABE01 **Lab Code:** CHEM **Method:**

Case No.: O3645 **SAS No.:** O3645

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB154278**						
O3645-01	SB-02-(3-5)	SAM	SOLID	07/18/2023	0.58	35.0	86.30
O3645-02	SB-04-(1-5)	SAM	SOLID	07/18/2023	0.57	35.0	91.30
O3645-02DUP	SB-04-(1-5)DUP	DUP	SOLID	07/18/2023	0.56	35.0	91.30
O3645-03	SB-07-(1-3)	SAM	SOLID	07/18/2023	0.59	35.0	79.50
O3645-04	SB-08-(0.5-2.0)	SAM	SOLID	07/18/2023	0.52	35.0	74.60
O3645-05	SB-09-(2.0-4.0)	SAM	SOLID	07/18/2023	0.50	35.0	79.40
O3645-06	SB-10-(0.5-2.0)	SAM	SOLID	07/18/2023	0.53	35.0	83.30
O3645-07	DUP	SAM	SOLID	07/18/2023	0.54	35.0	80.80
O3645-09	SB-04-(1-5)MS	MS	SOLID	07/18/2023	0.56	35.0	91.30
O3645-10	SB-04-(1-5)MSD	MSD	SOLID	07/18/2023	0.56	35.0	91.30
PB154278BL	PB154278BL	MB	SOLID	07/18/2023	0.52	35.0	100.00
PB154278BS	PB154278BS	LCS	SOLID	07/18/2023	0.56	35.0	100.00

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SAMPLE PREPARATION SUMMARY

Client: LaBella Associates P.C. **SDG No.:** O3645

Contract: LABE01 **Lab Code:** CHEM **Method:**

Case No.: O3645 **SAS No.:** O3645

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB154279**						
O3637-01DUP	A508DUP	DUP	WATER	07/18/2023	30.0	30.0	
O3637-01MS	A508MS	MS	WATER	07/18/2023	30.0	30.0	
O3637-01MSD	A508MSD	MSD	WATER	07/18/2023	30.0	30.0	
O3645-08	RINSATE-BLANK	SAM	WATER	07/18/2023	30.0	30.0	
PB154279BL	PB154279BL	MB	WATER	07/18/2023	30.0	30.0	
PB154279BS	PB154279BS	LCS	WATER	07/18/2023	30.0	30.0	

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ANALYSIS RUN LOG

Client: LaBella Associates P.C. **Contract:** LABE01

Lab code: CHEM **Case no.:** O3645 **Sas no.:** O3645 **Sdg no.:** O3645

Instrument id number: **Method:** **Run number:** LB126505

Start date: 07/19/2023 **End date:** 07/19/2023

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	0936	HG
S0.2	S0.2	1	0938	HG
S2.5	S2.5	1	0940	HG
S5	S5	1	0943	HG
S7.5	S7.5	1	0945	HG
S10	S10	1	0947	HG
ICV75	ICV75	1	0950	HG
ICB75	ICB75	1	0952	HG
CCV61	CCV61	1	0955	HG
CCB61	CCB61	1	0957	HG
CRA	CRA	1	0959	HG
PB154279BL	PB154279BL	1	1006	HG
PB154279BS	PB154279BS	1	1008	HG
O3637-01DUP	A508DUP	1	1013	HG
O3637-01MS	A508MS	1	1015	HG
O3637-01MSD	A508MSD	1	1017	HG
O3645-08	RINSATE-BLANK	1	1020	HG
CCV62	CCV62	1	1022	HG
CCB62	CCB62	1	1024	HG
O3637-01L	A508L	5	1027	HG
CCV63	CCV63	1	1031	HG
CCB63	CCB63	1	1033	HG

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ANALYSIS RUN LOG

Client: LaBella Associates P.C. **Contract:** LABE01

Lab code: CHEM **Case no.:** O3645 **Sas no.:** O3645 **Sdg no.:** O3645

Instrument id number: **Method:** **Run number:** LB126507

Start date: 07/19/2023 **End date:** 07/19/2023

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1132	HG
S0.2	S0.2	1	1134	HG
S2.5	S2.5	1	1136	HG
S5	S5	1	1139	HG
S7.5	S7.5	1	1144	HG
S10	S10	1	1146	HG
ICV76	ICV76	1	1149	HG
ICB76	ICB76	1	1151	HG
CCV64	CCV64	1	1153	HG
CCB64	CCB64	1	1155	HG
CRA	CRA	1	1158	HG
CCV65	CCV65	1	1223	HG
CCB65	CCB65	1	1225	HG
CCV66	CCV66	1	1250	HG
CCB66	CCB66	1	1253	HG
PB154278BL	PB154278BL	1	1304	HG
PB154278BS	PB154278BS	1	1306	HG
O3645-01	SB-02-(3-5)	1	1308	HG
O3645-03	SB-07-(1-3)	1	1314	HG
CCV67	CCV67	1	1317	HG
CCB67	CCB67	1	1319	HG
O3645-05	SB-09-(2.0-4.0)	1	1323	HG
O3645-07	DUP	1	1328	HG
CCV68	CCV68	1	1344	HG
CCB68	CCB68	1	1347	HG
CCV69	CCV69	1	1407	HG
CCB69	CCB69	1	1409	HG
O3645-02	SB-04-(1-5)	10	1420	HG
O3645-02DUP	SB-04-(1-5)DUP	10	1425	HG
O3645-09	SB-04-(1-5)MS	10	1427	HG
O3645-10	SB-04-(1-5)MSD	10	1430	HG
O3645-02L	SB-04-(1-5)L	50	1432	HG
CCV70	CCV70	1	1442	HG
CCB70	CCB70	1	1444	HG
O3645-04	SB-08-(0.5-2.0)	5	1447	HG
O3645-06	SB-10-(0.5-2.0)	100	1457	HG
CCV71	CCV71	1	1459	HG
CCB71	CCB71	1	1502	HG

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ANALYSIS RUN LOG

Client: LaBella Associates P.C. **Contract:** LABE01

Lab code: CHEM **Case no.:** O3645 **Sas no.:** O3645 **Sdg no.:** O3645

Instrument id number: **Method:** **Run number:** LB126517

Start date: 07/19/2023 **End date:** 07/19/2023

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1225	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
S1	S1	1	1229	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
S2	S2	1	1233	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
S3	S3	1	1237	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
S4	S4	1	1241	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
S5	S5	1	1245	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
ICV01	ICV01	1	1305	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
ICB01	ICB01	1	1313	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
CRI01	CRI01	1	1317	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
ICSA01	ICSA01	1	1321	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
ICSAB01	ICSAB01	1	1325	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
CCV01	CCV01	1	1337	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
LLCCV01	LLCCV01	1	1345	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
CCB01	CCB01	1	1350	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
O3637-01DUP	A508DUP	1	1450	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
CCV02	CCV02	1	1454	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
CCB02	CCB02	1	1458	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
O3637-01L	A508L	5	1502	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
O3637-01MS	A508MS	1	1506	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
O3637-01MSD	A508MSD	1	1510	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
O3637-01A	A508A	1	1513	Ba,Zn
PB154230BL	PB154230BL	1	1517	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
PB154230BS	PB154230BS	1	1521	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
CCV03	CCV03	1	1603	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
CCB03	CCB03	1	1607	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
PB154232BL	PB154232BL	1	1611	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
PB154232BS	PB154232BS	1	1615	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
O3645-01	SB-02-(3-5)	1	1635	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
O3645-02	SB-04-(1-5)	1	1639	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
O3645-02DUP	SB-04-(1-5)DUP	1	1643	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
O3645-02L	SB-04-(1-5)L	5	1647	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
CCV04	CCV04	1	1651	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
CCB04	CCB04	1	1655	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
O3645-09	SB-04-(1-5)MS	1	1659	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
O3645-10	SB-04-(1-5)MSD	1	1703	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
O3645-02A	SB-04-(1-5)A	1	1707	Ba,Be,Cr,Cu
O3645-03	SB-07-(1-3)	1	1711	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
O3645-04	SB-08-(0.5-2.0)	1	1715	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
O3645-05	SB-09-(2.0-4.0)	1	1719	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
O3645-06	SB-10-(0.5-2.0)	1	1723	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
O3645-07	DUP	1	1727	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn

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ANALYSIS RUN LOG

Client: LaBella Associates P.C. **Contract:** LABE01

Lab code: CHEM **Case no.:** O3645 **Sas no.:** O3645 **Sdg no.:** O3645

Instrument id number: **Method:** **Run number:** LB126517

Start date: 07/19/2023 **End date:** 07/19/2023

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
CCV05	CCV05	1	1744	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
CCB05	CCB05	1	1748	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
CCV06	CCV06	1	1839	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
CCB06	CCB06	1	1843	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
CCV07	CCV07	1	1926	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
CCB07	CCB07	1	1930	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
CCV08	CCV08	1	2014	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
CCB08	CCB08	1	2018	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
CCV09	CCV09	1	2103	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
CCB09	CCB09	1	2107	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
CCV10	CCV10	1	2119	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
CCB10	CCB10	1	2122	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn

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

metals
- 14 -
ANALYSIS RUN LOG

Client: LaBella Associates P.C. **Contract:** LABE01

Lab code: CHEM **Case no.:** O3645 **Sas no.:** O3645 **Sdg no.:** O3645

Instrument id number: **Method:** **Run number:** LB126674

Start date: 07/31/2023 **End date:** 07/31/2023

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1301	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
S1	S1	1	1306	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
S2	S2	1	1310	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
S3	S3	1	1314	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
S4	S4	1	1317	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
S5	S5	1	1321	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
ICV01	ICV01	1	1325	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
LLCCV01	LLCCV01	1	1342	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
ICB01	ICB01	1	1347	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
CRI01	CRI01	1	1351	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
ICSA01	ICSA01	1	1355	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
ICSAB01	ICSAB01	1	1359	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
CCV01	CCV01	1	1403	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
CCB01	CCB01	1	1407	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
CCV02	CCV02	1	1621	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
CCB02	CCB02	1	1625	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
CCV03	CCV03	1	1709	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
CCB03	CCB03	1	1713	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
O3645-08	RINSATE-BLANK	1	1725	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
CCV04	CCV04	1	1757	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
CCB04	CCB04	1	1801	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
CCV05	CCV05	1	1844	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
CCB05	CCB05	1	1848	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
CCV06	CCV06	1	1927	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
CCB06	CCB06	1	1931	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn

SHIPPING DOCUMENTS

CHEMTECH
CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO. 03645
QUOTE NO.
COC Number 2040304

9
9.1

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: LaBella Associates
ADDRESS: 300 Pearl Street
CITY Buffalo STATE: NY ZIP: 14202
ATTENTION: Andy Benkleman
PHONE: FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: Mackenna Parcels
PROJECT NO.: LOCATION: Niagara Falls
PROJECT MANAGER: Andy Benkleman
e-mail: abenkleman@labellapc.com
PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: SAME PO#:
ADDRESS:
CITY STATE: ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): _____ DAYS*
EDD: _____ DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

- ☐ Level 1 (Results Only)
- ☐ Level 2 (Results + QC)
- ☐ Level 3 (Results + QC + Raw Data)
- ☐ Level 4 (QC + Full Raw Data)
- ☐ NJ Reduced ☐ US EPA CLP
- ☐ NYS ASP A ☒ NYS ASP B
- ☐ Other _____
- ☐ EDD FORMAT _____

ANALYSIS

1 VOCs (TCL + 5 TICs)
2 SVOCs (TCL + 10 TICs)
3 PCBs (TCL)
4 Metals + Hg (RCRA)
5
6
7
8
9

CHEMTECH 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.	SB-02 (3-5')	Soil	C		7/12/23	1230	2	X	X	X	X						
2.	SB-04 (1-5')	Soil	C		7/12/23	1315	6	X	X	X	X						MS/MSD
3.	SB-07 (1-3')	Soil	C		7/13/23	1030	2	X	X	X	X						
4.	SB-08 (0.5-2.0')	Soil	C		7/13/23	1100	2	X	X	X	X						
5.	SB-09 (2.0-4.0')	Soil	C		7/13/23	1130	2	X	X	X	X						
6.	SB-10 (0.5-2.0')	Soil	C		7/13/23	1200	2	X	X	X	X						
7.	Dup DUP	Soil	C		7/12/23	—	2	X	X	X	X						
8.	Rinsate Blank	H_2O		G	7/12/23	1215	4	X	X	X	X						
9.																	
10.																	

← 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.	7/12/23	1. Sample Fridge/Freezer
2.	7/13/23	2. FEDEX
3. FedEx	7-13-23 0912	3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 24.3 °C
Comments: SB-02, SB-04 and DUP frozen on 7/12/23 @ 1600

* ICE Melted

Page ____ of ____

CLIENT: ☐ Hand Delivered ☐ Other _____
CHEMTECH: ☐ Picked Up ☐ Field Sampling

Shipment Complete ☐ YES ☐ NO

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

From: Samantha Beazley <Samantha@chemtech.net>
Sent: Monday, July 17, 2023 11:40 AM
To: 'abenkleman@labellapc.com'
Subject: RE: Login Summary Details For Project Mackenna Parcels-O3645.

Good Morning,

Note that there was no sample volume received in the terracore kit for sample “SB-09-(2.0-4.0)”. The lab will not be able to analyze this sample for VOC.

Respectfully,

Samantha Beazley
Project Manager

CHEMTECH

284 Sheffield St. | Mountainside, NJ 07092
Direct: (908) 728-3148
samantha@chemtech.net | www.chemtech.net

Your Opinion Matters! Please Give Us Your Feedback

From: CHEMTECH-Data@chemtech.net <CHEMTECH-Data@chemtech.net>
Sent: Monday, July 17, 2023 10:12 AM
To: abenkleman@labellapc.com
Cc: Samantha@chemtech.net
Subject: Login Summary Details For Project Mackenna Parcels-O3645.

To Andrew T. Benkleman;

Please see the attached Login Summary for the following project, or download the file using your login credentials from the link below.

Order ID	: O3645
Project ID	: Mackenna Parcels
Download File	: https://chemtech.net/secureLogin.aspx
Order Date	: 7/17/2023 9:31:59 AM
CHEMTECH’s Project Manager	: Samantha Beazley , Samantha@chemtech.net , Ext :
CHEMTECH’s Sales Executive	: Jordan Hedvat , jordan@chemtech.net , 908-728-3144 Ext :

Thank you for the opportunity to provide you with our services. For any questions please feel free to contact your project manager.

Click Here for our short online customer Survey http://chemtech.net/ClientSurvey.aspx .

Thank you,

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 (L-A-B)	L2219
Maine	2022022
Maryland	296
New Hampshire	255423
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	P330-21-00137
Texas	T104704488

CHEMTECH

LOGIN REPORT/SAMPLE TRANSFER

9
9.4

Order ID : O3645 LABE01
Client Name : LaBella Associates P.C.
Client Contact : Andrew T. Benkleman
Invoice Name : LaBella Associates P.C.
Invoice Contact : Andrew T. Benkleman

Order Date : 7/17/2023 9:31:59 AM
Project Name : Mackenna Parcels
Receive DateTime : 7/17/2023 9:12:00 AM
Purchase Order :

Project Mgr :
Report Type : ~~Level 2~~ NYS ASP B
EDD Type : Excel NY SB 7/20/23
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD		FAX DATE	DUE DATES
O3645-01	SB-02-(3-5)	Solid	07/12/2023	12:30						
					VOCMS Group1		8260D	10 Bus. Days		
O3645-02	SB-04-(1-5)	Solid	07/12/2023	13:15						
					VOCMS Group1		8260D	10 Bus. Days		
O3645-03	SB-07-(1-3)	Solid	07/13/2023	10:30						
					VOCMS Group1		8260D	10 Bus. Days		
O3645-04	SB-08 ~~(10.5-2.0)~~ (0.5-2.0)	Solid	07/13/2023	11:00						
					VOCMS Group1		8260D	10 Bus. Days		
~~O3645-05~~	~~SB-09-(2.0-4.0)~~	~~Solid~~	~~07/13/2023~~	~~11:30~~						
					~~VOCMS Group1~~		~~8260D~~	~~10 Bus. Days~~		
O3645-06	SB-10-(0.5-2.0)	Solid	07/13/2023	12:00						
					VOCMS Group1		8260D	10 Bus. Days		
O3645-07	DUP	Solid	07/12/2023	00:00						
					VOCMS Group1		8260D	10 Bus. Days		
O3645-08	RINSATE-BLANK	Water	07/12/2023	12:15						
					VOCMS Group1		8260-Low	10 Bus. Days		
O3645-09	O3645-02MS	Solid	07/12/2023	13:15						

CHEMTECH

LOGIN REPORT/SAMPLE TRANSFER

9

9.4

Order ID : O3645 LABE01
Client Name : LaBella Associates P.C.
Client Contact : Andrew T. Benkleman
Invoice Name : LaBella Associates P.C.
Invoice Contact : Andrew T. Benkleman

Order Date : 7/17/2023 9:31:59 AM
Project Name : Mackenna Parcels
Receive DateTime : 7/17/2023 9:12:00 AM
Purchase Order :

Project Mgr :
Report Type : ~~Level 2~~ NYS ASP B
SB 7/20/23
EDD Type : Excel NY
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD		FAX DATE	DUE DATES
					VOCMS Group1		8260D	10 Bus. Days		
O3645-10	O3645-02MSD	Solid	07/12/2023	13:15						
					VOCMS Group1		8260D	10 Bus. Days		

Relinguished By : [signature]
Date / Time : 7/17/23 0950

Received By : Sam
Date / Time : 7/17/23 9.50
Storage Area : VOA Refridgerator Room

Reg #6
Ext
Reg #4