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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.

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Alliance TECHNICAL GROUP

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

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:** _____