

SUB DATA PACKAGE

PROJECT NAME: PGW RICHMOND

TETRA TECH NUS, INC.

661 Andersen Drive

Suite 200

Pittsburgh, PA - 15220-2745

Phone No: 412-921-7090

ORDER ID : P4367

ATTENTION : Sean Fullmer



Cover Page

Order ID : P4367

Project ID : PGW Richmond

Client : Tetra Tech NUS, Inc.

Lab Sample Number

P4367-01
P4367-02
P4367-03
P4367-04
P4367-05
P4367-06
P4367-07
P4367-08

Client Sample Number

SB-01-2.5-3.0
SB-01-4.25-4.83
SB-02-2.0-2.5
SB-02-4.5-5.0
SB-03-2.0-2.5
SB-03-4.167-4.667
SB-04-2.0-2.5
SB-04-4.5-5.0

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 : N. N. Pandya

NYDOH CERTIFICATION NO - 11376

APPROVED

Nimisha Pandya QA/QC Supervisor Pandya , 11/4/2024, 2:24:18 PM

NJDEP CERTIFICATION NO - 20012

ANALYTICAL REPORT

PREPARED FOR

Attn: Ms. Yazmeen Gomez
Chemtech Consulting Group Inc.
284 Sheffield Street
Mountainside, New Jersey 07092

Generated 11/4/2024 8:12:03 AM

JOB DESCRIPTION

PGW Richmond

JOB NUMBER

410-192637-1

Eurofins Lancaster Laboratories Environment Testing, LLC

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
11/4/2024 8:12:03 AM

Authorized for release by
Barbara Weyandt, Project Manager
Barbara.Weyandt@et.eurofinsus.com
(717)556-7264

Compliance Statement

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.

- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. The foregoing express warranty is exclusive and is given in lieu of all other warranties, expressed or implied, except as otherwise agreed. We disclaim any other warranties, expressed or implied, including a warranty of fitness for particular purpose and warranty of merchantability. In no event shall Eurofins Lancaster Laboratories Environmental, LLC be liable for indirect, special, consequential, or incidental damages including, but not limited to, damages for loss of profit or goodwill regardless of (A) the negligence (either sole or concurrent) of Eurofins Lancaster Laboratories Environmental and (B) whether Eurofins Lancaster Laboratories Environmental has been informed of the possibility of such damages. We accept no legal responsibility for the purposes for which the client uses the test results. Except as otherwise agreed, no purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Barb Weyandt

Table of Contents

Cover Page	1
Table of Contents	4
Definitions/Glossary	5
Case Narrative	6
Detection Summary	7
Client Sample Results	8
Surrogate Summary	12
QC Sample Results	13
QC Association Summary	15
Lab Chronicle	17
Certification Summary	20
Method Summary	21
Sample Summary	22
Chain of Custody	23
Receipt Checklists	24



Definitions/Glossary

Client: Chemtech Consulting Group Inc.
Project/Site: PGW Richmond

Job ID: 410-192637-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
cn	Refer to Case Narrative for further detail
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Chemtech Consulting Group Inc.
Project: PGW Richmond

Job ID: 410-192637-1

Job ID: 410-192637-1

Eurofins Lancaster Laboratories Environment

Job Narrative 410-192637-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 10/16/2024 10:30 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.0°C.

Receipt Exceptions

The Chain-of-Custody (COC) was incomplete as received. The COC is missing the Sample Type (Grab or Composite). This does not meet regulatory requirements.

GC Semi VOA

Method 8015D_DAI - Soluble: The following sample(s) was analysis was added past holding time. As such, the laboratory had insufficient time remaining to perform the analysis within holding time: SB-02-2.0-2.5 (410-192637-3), SB-02-4.5-5.0 (410-192637-4), SB-04-2.0-2.5 (410-192637-7) and SB-04-4.5-5.0 (410-192637-8).

Method 8015D_DAI - Soluble: The method blank for preparation batch 410-569616 contained Methanol above the method detection limit (MDL). None of the samples associated with this method blank contained the target compound; therefore, re-extraction and/or re-analysis of samples were not performed.

Method 8015D_DAI - Soluble: The following sample(s) was analysis added past hold. As such, the laboratory had insufficient time remaining to perform the analysis within holding time: SB-01-2.5-3.0 (410-192637-1), SB-01-4.25-4.83 (410-192637-2), SB-03-2.0-2.5 (410-192637-5) and SB-03-4.167-4.667 (410-192637-6).

Method 8015D_DAI - Soluble: The method blank for preparation batch 410-570403 and analytical batch 410-570503 contained Methanol above the method detection limit (MDL). This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore the MDL was raised to the RL as sample was past holding time, re-extraction and/or re-analysis of samples was not performed.

Method 8015D_DAI_G - Soluble: The following sample(s) analysis was added past holding time. As such, the laboratory had insufficient time remaining to perform the analysis within holding time: SB-01-2.5-3.0 (410-192637-1), SB-01-4.25-4.83 (410-192637-2), SB-02-2.0-2.5 (410-192637-3), SB-02-4.5-5.0 (410-192637-4), SB-03-2.0-2.5 (410-192637-5), SB-03-4.167-4.667 (410-192637-6), SB-04-2.0-2.5 (410-192637-7), SB-04-4.5-5.0 (410-192637-8), (410-192637-A-1-A MS) and (410-192637-A-1-B MSD).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Eurofins Lancaster Laboratories Environment Testing, LLC

Detection Summary

Client: Chemtech Consulting Group Inc.
Project/Site: PGW Richmond

Job ID: 410-192637-1

Client Sample ID: SB-01-2.5-3.0	Lab Sample ID: 410-192637-1
No Detections.	
Client Sample ID: SB-01-4.25-4.83	Lab Sample ID: 410-192637-2
No Detections.	
Client Sample ID: SB-02-2.0-2.5	Lab Sample ID: 410-192637-3
No Detections.	
Client Sample ID: SB-02-4.5-5.0	Lab Sample ID: 410-192637-4
No Detections.	
Client Sample ID: SB-03-2.0-2.5	Lab Sample ID: 410-192637-5
No Detections.	
Client Sample ID: SB-03-4.167-4.667	Lab Sample ID: 410-192637-6
No Detections.	
Client Sample ID: SB-04-2.0-2.5	Lab Sample ID: 410-192637-7
No Detections.	
Client Sample ID: SB-04-4.5-5.0	Lab Sample ID: 410-192637-8
No Detections.	

Client Sample Results

Client: Chemtech Consulting Group Inc.
Project/Site: PGW Richmond

Job ID: 410-192637-1

Client Sample ID: SB-01-2.5-3.0

Lab Sample ID: 410-192637-1

Date Collected: 10/04/24 10:00

Matrix: Solid

Date Received: 10/16/24 10:30

Percent Solids: 88.3

Method: SW846 8015D - Alcohols with GC/FID Direct Aqueous Injection - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methanol (1C)	ND	H cn	1100	1100	ug/Kg	☆		11/01/24 23:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Acetone (1C)	99	cn	47 - 150					11/01/24 23:14	1
Acetone (2C)	100	cn	47 - 150					11/01/24 23:14	1

Method: SW846 8015D - Glycols- Direct Injection (GC/FID) - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene glycol	ND	H cn	17	7.8	mg/Kg	☆		10/29/24 16:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetramethylene glycol (Surr)	59	cn	5 - 131					10/29/24 16:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	11.7		1.0	1.0	%			10/21/24 07:39	1

Client Sample ID: SB-01-4.25-4.83

Lab Sample ID: 410-192637-2

Date Collected: 10/04/24 10:30

Matrix: Solid

Date Received: 10/16/24 10:30

Percent Solids: 87.1

Method: SW846 8015D - Alcohols with GC/FID Direct Aqueous Injection - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methanol (1C)	ND	H cn	1100	1100	ug/Kg	☆		11/01/24 23:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Acetone (1C)	87	cn	47 - 150					11/01/24 23:30	1
Acetone (2C)	86	cn	47 - 150					11/01/24 23:30	1

Method: SW846 8015D - Glycols- Direct Injection (GC/FID) - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene glycol	ND	H cn	18	8.2	mg/Kg	☆		10/29/24 17:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetramethylene glycol (Surr)	54	cn	5 - 131					10/29/24 17:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	12.9		1.0	1.0	%			10/21/24 07:39	1

Client Sample ID: SB-02-2.0-2.5

Lab Sample ID: 410-192637-3

Date Collected: 10/04/24 11:05

Matrix: Solid

Date Received: 10/16/24 10:30

Percent Solids: 84.8

Method: SW846 8015D - Alcohols with GC/FID Direct Aqueous Injection - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methanol (1C)	ND	H cn	1200	230	ug/Kg	☆		10/30/24 19:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Acetone (1C)	73	cn	47 - 150					10/30/24 19:08	1
Acetone (2C)	70	cn	47 - 150					10/30/24 19:08	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Chemtech Consulting Group Inc.
Project/Site: PGW Richmond

Job ID: 410-192637-1

Client Sample ID: SB-02-2.0-2.5

Lab Sample ID: 410-192637-3

Date Collected: 10/04/24 11:05

Matrix: Solid

Date Received: 10/16/24 10:30

Percent Solids: 84.8

Method: SW846 8015D - Glycols- Direct Injection (GC/FID) - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene glycol	ND	H cn	18	8.2	mg/Kg	☆		10/29/24 17:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetramethylene glycol (Surr)	62	cn	5 - 131					10/29/24 17:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	15.2		1.0	1.0	%			10/21/24 07:39	1

Client Sample ID: SB-02-4.5-5.0

Lab Sample ID: 410-192637-4

Date Collected: 10/04/24 11:39

Matrix: Solid

Date Received: 10/16/24 10:30

Percent Solids: 85.0

Method: SW846 8015D - Alcohols with GC/FID Direct Aqueous Injection - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methanol (1C)	ND	H cn	1200	230	ug/Kg	☆		10/30/24 19:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Acetone (1C)	79	cn	47 - 150					10/30/24 19:24	1
Acetone (2C)	76	cn	47 - 150					10/30/24 19:24	1

Method: SW846 8015D - Glycols- Direct Injection (GC/FID) - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene glycol	ND	H cn	18	8.2	mg/Kg	☆		10/29/24 18:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetramethylene glycol (Surr)	49	cn	5 - 131					10/29/24 18:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	15.0		1.0	1.0	%			10/21/24 07:39	1

Client Sample ID: SB-03-2.0-2.5

Lab Sample ID: 410-192637-5

Date Collected: 10/04/24 13:03

Matrix: Solid

Date Received: 10/16/24 10:30

Percent Solids: 90.5

Method: SW846 8015D - Alcohols with GC/FID Direct Aqueous Injection - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methanol (1C)	ND	H cn	1100	1100	ug/Kg	☆		11/01/24 23:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Acetone (1C)	100	cn	47 - 150					11/01/24 23:46	1
Acetone (2C)	99	cn	47 - 150					11/01/24 23:46	1

Method: SW846 8015D - Glycols- Direct Injection (GC/FID) - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene glycol	ND	H cn	17	7.8	mg/Kg	☆		10/29/24 18:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetramethylene glycol (Surr)	52	cn	5 - 131					10/29/24 18:27	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Chemtech Consulting Group Inc.
Project/Site: PGW Richmond

Job ID: 410-192637-1

Client Sample ID: SB-03-2.0-2.5

Lab Sample ID: 410-192637-5

Date Collected: 10/04/24 13:03

Matrix: Solid

Date Received: 10/16/24 10:30

Percent Solids: 90.5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	9.5		1.0	1.0	%			10/21/24 07:39	1

Client Sample ID: SB-03-4.167-4.667

Lab Sample ID: 410-192637-6

Date Collected: 10/04/24 13:44

Matrix: Solid

Date Received: 10/16/24 10:30

Percent Solids: 85.5

Method: SW846 8015D - Alcohols with GC/FID Direct Aqueous Injection - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methanol (1C)	ND	H cn	1200	1200	ug/Kg	✱		11/02/24 00:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Acetone (1C)	93	cn	47 - 150					11/02/24 00:01	1
Acetone (2C)	93	cn	47 - 150					11/02/24 00:01	1

Method: SW846 8015D - Glycols- Direct Injection (GC/FID) - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene glycol	ND	H cn	18	8.3	mg/Kg	✱		10/29/24 18:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetramethylene glycol (Surr)	56	cn	5 - 131					10/29/24 18:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	14.5		1.0	1.0	%			10/21/24 07:39	1

Client Sample ID: SB-04-2.0-2.5

Lab Sample ID: 410-192637-7

Date Collected: 10/04/24 14:32

Matrix: Solid

Date Received: 10/16/24 10:30

Percent Solids: 85.2

Method: SW846 8015D - Alcohols with GC/FID Direct Aqueous Injection - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methanol (1C)	ND	H cn	1200	230	ug/Kg	✱		10/30/24 20:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Acetone (2C)	77	cn	47 - 150					10/30/24 20:28	1

Method: SW846 8015D - Glycols- Direct Injection (GC/FID) - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene glycol	ND	H cn	18	8.5	mg/Kg	✱		10/29/24 18:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetramethylene glycol (Surr)	49	cn	5 - 131					10/29/24 18:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	14.8		1.0	1.0	%			10/21/24 07:39	1

Client Sample Results

Client: Chemtech Consulting Group Inc.
Project/Site: PGW Richmond

Job ID: 410-192637-1

Client Sample ID: SB-04-4.5-5.0

Lab Sample ID: 410-192637-8

Date Collected: 10/04/24 14:45

Matrix: Solid

Date Received: 10/16/24 10:30

Percent Solids: 77.2

Method: SW846 8015D - Alcohols with GC/FID Direct Aqueous Injection - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methanol (1C)	ND	H cn	1300	260	ug/Kg	☼		10/30/24 20:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Acetone (1C)	83	cn	47 - 150					10/30/24 20:44	1
Acetone (2C)	80	cn	47 - 150					10/30/24 20:44	1

Method: SW846 8015D - Glycols- Direct Injection (GC/FID) - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene glycol	ND	H cn	19	9.1	mg/Kg	☼		10/29/24 19:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetramethylene glycol (Surr)	53	cn	5 - 131					10/29/24 19:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	22.8		1.0	1.0	%	—		10/21/24 07:39	1

Surrogate Summary

Client: Chemtech Consulting Group Inc.
Project/Site: PGW Richmond

Job ID: 410-192637-1

Method: 8015D - Alcohols with GC/FID Direct Aqueous Injection

Matrix: Solid

Prep Type: Soluble

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Acetone1 (47-150)	Acetone2 (47-150)
410-192637-1	SB-01-2.5-3.0	99 cn	100 cn
410-192637-2	SB-01-4.25-4.83	87 cn	86 cn
410-192637-3	SB-02-2.0-2.5	73 cn	70 cn
410-192637-4	SB-02-4.5-5.0	79 cn	76 cn
410-192637-5	SB-03-2.0-2.5	100 cn	99 cn
410-192637-6	SB-03-4.167-4.667	93 cn	93 cn
410-192637-7	SB-04-2.0-2.5		77 cn
410-192637-8	SB-04-4.5-5.0	83 cn	80 cn
LCS 410-569616/2-A	Lab Control Sample		129
LCS 410-570403/2-A	Lab Control Sample	94	92
MB 410-569616/1-A	Method Blank	131	128
MB 410-570403/1-A	Method Blank	95	95
Surrogate Legend			
Acetone = Acetone			

Method: 8015D - Glycols- Direct Injection (GC/FID)

Matrix: Solid

Prep Type: Soluble

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	14BD (5-131)	
410-192637-1	SB-01-2.5-3.0	59 cn	
410-192637-1 MS	SB-01-2.5-3.0	93 cn	
410-192637-1 MSD	SB-01-2.5-3.0	91 cn	
410-192637-2	SB-01-4.25-4.83	54 cn	
410-192637-3	SB-02-2.0-2.5	62 cn	
410-192637-4	SB-02-4.5-5.0	49 cn	
410-192637-5	SB-03-2.0-2.5	52 cn	
410-192637-6	SB-03-4.167-4.667	56 cn	
410-192637-7	SB-04-2.0-2.5	49 cn	
410-192637-8	SB-04-4.5-5.0	53 cn	
Surrogate Legend			
14BD = Tetramethylene glycol (Surr)			

QC Sample Results

Client: Chemtech Consulting Group Inc.
Project/Site: PGW Richmond

Job ID: 410-192637-1

Method: 8015D - Glycols- Direct Injection (GC/FID)

Lab Sample ID: 410-192637-1 MS

Matrix: Solid

Analysis Batch: 568979

Client Sample ID: SB-01-2.5-3.0

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylene glycol	ND	H cn	113	98.0	cn	mg/Kg	☆	87	76 - 124
Surrogate	%Recovery	MS Qualifier	Limits						
Tetramethylene glycol (Surr)	93	cn	5 - 131						

Lab Sample ID: 410-192637-1 MSD

Matrix: Solid

Analysis Batch: 568979

Client Sample ID: SB-01-2.5-3.0

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ethylene glycol	ND	H cn	117	105	cn	mg/Kg	☆	90	76 - 124	7	20
Surrogate	%Recovery	MSD Qualifier	Limits								
Tetramethylene glycol (Surr)	91	cn	5 - 131								

Method: 8015D - Alcohols with GC/FID Direct Aqueous Injection

Lab Sample ID: MB 410-569616/1-A

Matrix: Solid

Analysis Batch: 569658

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methanol (2C)	609	J	1000	200	ug/Kg			10/30/24 17:32	1
Surrogate	%Recovery	MB Qualifier	Limits						
Acetone (1C)	131		47 - 150						
Acetone (2C)	128		47 - 150						

Lab Sample ID: LCS 410-569616/2-A

Matrix: Solid

Analysis Batch: 569658

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methanol (2C)	2510	2950		ug/Kg		117	71 - 136
Surrogate	%Recovery	LCS Qualifier	Limits				
Acetone (2C)	129		47 - 150				

Lab Sample ID: MB 410-570403/1-A

Matrix: Solid

Analysis Batch: 570503

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methanol (1C)	ND		1000	1000	ug/Kg			11/01/24 17:28	1
Surrogate	%Recovery	MB Qualifier	Limits						
Acetone (1C)	95		47 - 150						

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Chemtech Consulting Group Inc.
Project/Site: PGW Richmond

Job ID: 410-192637-1

Method: 8015D - Alcohols with GC/FID Direct Aqueous Injection (Continued)

Lab Sample ID: MB 410-570403/1-A

Matrix: Solid

Analysis Batch: 570503

Client Sample ID: Method Blank

Prep Type: Soluble

	MB	MB				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Acetone (2C)	95		47 - 150		11/01/24 17:28	1

Lab Sample ID: LCS 410-570403/2-A

Matrix: Solid

Analysis Batch: 570503

Client Sample ID: Lab Control Sample

Prep Type: Soluble

	Spike	LCS	LCS					%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Methanol (2C)	2520	2900		ug/Kg		115	71 - 136		

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
Acetone (1C)	94		47 - 150
Acetone (2C)	92		47 - 150

QC Association Summary

Client: Chemtech Consulting Group Inc.
Project/Site: PGW Richmond

Job ID: 410-192637-1

GC Semi VOA

Analysis Batch: 568979

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-192637-1	SB-01-2.5-3.0	Soluble	Solid	8015D	569061
410-192637-2	SB-01-4.25-4.83	Soluble	Solid	8015D	569061
410-192637-3	SB-02-2.0-2.5	Soluble	Solid	8015D	569061
410-192637-4	SB-02-4.5-5.0	Soluble	Solid	8015D	569061
410-192637-5	SB-03-2.0-2.5	Soluble	Solid	8015D	569061
410-192637-6	SB-03-4.167-4.667	Soluble	Solid	8015D	569061
410-192637-7	SB-04-2.0-2.5	Soluble	Solid	8015D	569061
410-192637-8	SB-04-4.5-5.0	Soluble	Solid	8015D	569061
410-192637-1 MS	SB-01-2.5-3.0	Soluble	Solid	8015D	569061
410-192637-1 MSD	SB-01-2.5-3.0	Soluble	Solid	8015D	569061

Leach Batch: 569061

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-192637-1	SB-01-2.5-3.0	Soluble	Solid	DI Leach	
410-192637-2	SB-01-4.25-4.83	Soluble	Solid	DI Leach	
410-192637-3	SB-02-2.0-2.5	Soluble	Solid	DI Leach	
410-192637-4	SB-02-4.5-5.0	Soluble	Solid	DI Leach	
410-192637-5	SB-03-2.0-2.5	Soluble	Solid	DI Leach	
410-192637-6	SB-03-4.167-4.667	Soluble	Solid	DI Leach	
410-192637-7	SB-04-2.0-2.5	Soluble	Solid	DI Leach	
410-192637-8	SB-04-4.5-5.0	Soluble	Solid	DI Leach	
410-192637-1 MS	SB-01-2.5-3.0	Soluble	Solid	DI Leach	
410-192637-1 MSD	SB-01-2.5-3.0	Soluble	Solid	DI Leach	

Leach Batch: 569616

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-192637-3	SB-02-2.0-2.5	Soluble	Solid	DI Leach	
410-192637-4	SB-02-4.5-5.0	Soluble	Solid	DI Leach	
410-192637-7	SB-04-2.0-2.5	Soluble	Solid	DI Leach	
410-192637-8	SB-04-4.5-5.0	Soluble	Solid	DI Leach	
MB 410-569616/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 410-569616/2-A	Lab Control Sample	Soluble	Solid	DI Leach	

Analysis Batch: 569658

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-192637-3	SB-02-2.0-2.5	Soluble	Solid	8015D	569616
410-192637-4	SB-02-4.5-5.0	Soluble	Solid	8015D	569616
410-192637-7	SB-04-2.0-2.5	Soluble	Solid	8015D	569616
410-192637-8	SB-04-4.5-5.0	Soluble	Solid	8015D	569616
MB 410-569616/1-A	Method Blank	Soluble	Solid	8015D	569616
LCS 410-569616/2-A	Lab Control Sample	Soluble	Solid	8015D	569616

Leach Batch: 570403

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-192637-1	SB-01-2.5-3.0	Soluble	Solid	DI Leach	
410-192637-2	SB-01-4.25-4.83	Soluble	Solid	DI Leach	
410-192637-5	SB-03-2.0-2.5	Soluble	Solid	DI Leach	
410-192637-6	SB-03-4.167-4.667	Soluble	Solid	DI Leach	
MB 410-570403/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 410-570403/2-A	Lab Control Sample	Soluble	Solid	DI Leach	

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Association Summary

Client: Chemtech Consulting Group Inc.
Project/Site: PGW Richmond

Job ID: 410-192637-1

GC Semi VOA

Analysis Batch: 570503

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-192637-1	SB-01-2.5-3.0	Soluble	Solid	8015D	570403
410-192637-2	SB-01-4.25-4.83	Soluble	Solid	8015D	570403
410-192637-5	SB-03-2.0-2.5	Soluble	Solid	8015D	570403
410-192637-6	SB-03-4.167-4.667	Soluble	Solid	8015D	570403
MB 410-570403/1-A	Method Blank	Soluble	Solid	8015D	570403
LCS 410-570403/2-A	Lab Control Sample	Soluble	Solid	8015D	570403

General Chemistry

Analysis Batch: 565538

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-192637-1	SB-01-2.5-3.0	Total/NA	Solid	Moisture	
410-192637-2	SB-01-4.25-4.83	Total/NA	Solid	Moisture	
410-192637-3	SB-02-2.0-2.5	Total/NA	Solid	Moisture	
410-192637-4	SB-02-4.5-5.0	Total/NA	Solid	Moisture	
410-192637-5	SB-03-2.0-2.5	Total/NA	Solid	Moisture	
410-192637-6	SB-03-4.167-4.667	Total/NA	Solid	Moisture	
410-192637-7	SB-04-2.0-2.5	Total/NA	Solid	Moisture	
410-192637-8	SB-04-4.5-5.0	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Chemtech Consulting Group Inc.
Project/Site: PGW Richmond

Job ID: 410-192637-1

Client Sample ID: SB-01-2.5-3.0

Lab Sample ID: 410-192637-1

Date Collected: 10/04/24 10:00

Matrix: Solid

Date Received: 10/16/24 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	565538	E5GC	ELLE	10/21/24 07:39

Client Sample ID: SB-01-2.5-3.0

Lab Sample ID: 410-192637-1

Date Collected: 10/04/24 10:00

Matrix: Solid

Date Received: 10/16/24 10:30

Percent Solids: 88.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			570403	WZ6J	ELLE	11/01/24 13:08
Soluble	Analysis	8015D		1	570503	LXF2	ELLE	11/01/24 23:14
Soluble	Leach	DI Leach			569061	KP5X	ELLE	10/29/24 13:19
Soluble	Analysis	8015D		1	568979	LXF2	ELLE	10/29/24 16:58

Client Sample ID: SB-01-4.25-4.83

Lab Sample ID: 410-192637-2

Date Collected: 10/04/24 10:30

Matrix: Solid

Date Received: 10/16/24 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	565538	E5GC	ELLE	10/21/24 07:39

Client Sample ID: SB-01-4.25-4.83

Lab Sample ID: 410-192637-2

Date Collected: 10/04/24 10:30

Matrix: Solid

Date Received: 10/16/24 10:30

Percent Solids: 87.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			570403	WZ6J	ELLE	11/01/24 13:08
Soluble	Analysis	8015D		1	570503	LXF2	ELLE	11/01/24 23:30
Soluble	Leach	DI Leach			569061	KP5X	ELLE	10/29/24 13:19
Soluble	Analysis	8015D		1	568979	LXF2	ELLE	10/29/24 17:43

Client Sample ID: SB-02-2.0-2.5

Lab Sample ID: 410-192637-3

Date Collected: 10/04/24 11:05

Matrix: Solid

Date Received: 10/16/24 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	565538	E5GC	ELLE	10/21/24 07:39

Client Sample ID: SB-02-2.0-2.5

Lab Sample ID: 410-192637-3

Date Collected: 10/04/24 11:05

Matrix: Solid

Date Received: 10/16/24 10:30

Percent Solids: 84.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			569616	WZ6J	ELLE	10/30/24 15:00
Soluble	Analysis	8015D		1	569658	LXF2	ELLE	10/30/24 19:08
Soluble	Leach	DI Leach			569061	KP5X	ELLE	10/29/24 13:19
Soluble	Analysis	8015D		1	568979	LXF2	ELLE	10/29/24 17:57

Eurofins Lancaster Laboratories Environment Testing, LLC

Lab Chronicle

Client: Chemtech Consulting Group Inc.
Project/Site: PGW Richmond

Job ID: 410-192637-1

Client Sample ID: SB-02-4.5-5.0

Lab Sample ID: 410-192637-4

Date Collected: 10/04/24 11:39

Matrix: Solid

Date Received: 10/16/24 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	565538	E5GC	ELLE	10/21/24 07:39

Client Sample ID: SB-02-4.5-5.0

Lab Sample ID: 410-192637-4

Date Collected: 10/04/24 11:39

Matrix: Solid

Date Received: 10/16/24 10:30

Percent Solids: 85.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			569616	WZ6J	ELLE	10/30/24 15:00
Soluble	Analysis	8015D		1	569658	LXF2	ELLE	10/30/24 19:24
Soluble	Leach	DI Leach			569061	KP5X	ELLE	10/29/24 13:19
Soluble	Analysis	8015D		1	568979	LXF2	ELLE	10/29/24 18:12

Client Sample ID: SB-03-2.0-2.5

Lab Sample ID: 410-192637-5

Date Collected: 10/04/24 13:03

Matrix: Solid

Date Received: 10/16/24 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	565538	E5GC	ELLE	10/21/24 07:39

Client Sample ID: SB-03-2.0-2.5

Lab Sample ID: 410-192637-5

Date Collected: 10/04/24 13:03

Matrix: Solid

Date Received: 10/16/24 10:30

Percent Solids: 90.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			570403	WZ6J	ELLE	11/01/24 13:08
Soluble	Analysis	8015D		1	570503	LXF2	ELLE	11/01/24 23:46
Soluble	Leach	DI Leach			569061	KP5X	ELLE	10/29/24 13:19
Soluble	Analysis	8015D		1	568979	LXF2	ELLE	10/29/24 18:27

Client Sample ID: SB-03-4.167-4.667

Lab Sample ID: 410-192637-6

Date Collected: 10/04/24 13:44

Matrix: Solid

Date Received: 10/16/24 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	565538	E5GC	ELLE	10/21/24 07:39

Client Sample ID: SB-03-4.167-4.667

Lab Sample ID: 410-192637-6

Date Collected: 10/04/24 13:44

Matrix: Solid

Date Received: 10/16/24 10:30

Percent Solids: 85.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			570403	WZ6J	ELLE	11/01/24 13:08
Soluble	Analysis	8015D		1	570503	LXF2	ELLE	11/02/24 00:01
Soluble	Leach	DI Leach			569061	KP5X	ELLE	10/29/24 13:19
Soluble	Analysis	8015D		1	568979	LXF2	ELLE	10/29/24 18:42

Eurofins Lancaster Laboratories Environment Testing, LLC

Lab Chronicle

Client: Chemtech Consulting Group Inc.
Project/Site: PGW Richmond

Job ID: 410-192637-1

Client Sample ID: SB-04-2.0-2.5

Lab Sample ID: 410-192637-7

Date Collected: 10/04/24 14:32

Matrix: Solid

Date Received: 10/16/24 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	565538	E5GC	ELLE	10/21/24 07:39

Client Sample ID: SB-04-2.0-2.5

Lab Sample ID: 410-192637-7

Date Collected: 10/04/24 14:32

Matrix: Solid

Date Received: 10/16/24 10:30

Percent Solids: 85.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			569616	WZ6J	ELLE	10/30/24 15:00
Soluble	Analysis	8015D		1	569658	LXF2	ELLE	10/30/24 20:28
Soluble	Leach	DI Leach			569061	KP5X	ELLE	10/29/24 13:19
Soluble	Analysis	8015D		1	568979	LXF2	ELLE	10/29/24 18:56

Client Sample ID: SB-04-4.5-5.0

Lab Sample ID: 410-192637-8

Date Collected: 10/04/24 14:45

Matrix: Solid

Date Received: 10/16/24 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	565538	E5GC	ELLE	10/21/24 07:39

Client Sample ID: SB-04-4.5-5.0

Lab Sample ID: 410-192637-8

Date Collected: 10/04/24 14:45

Matrix: Solid

Date Received: 10/16/24 10:30

Percent Solids: 77.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			569616	WZ6J	ELLE	10/30/24 15:00
Soluble	Analysis	8015D		1	569658	LXF2	ELLE	10/30/24 20:44
Soluble	Leach	DI Leach			569061	KP5X	ELLE	10/29/24 13:19
Soluble	Analysis	8015D		1	568979	LXF2	ELLE	10/29/24 19:11

Laboratory References:

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

Accreditation/Certification Summary

Client: Chemtech Consulting Group Inc.
Project/Site: PGW Richmond

Job ID: 410-192637-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

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

Authority	Program	Identification Number	Expiration Date
Pennsylvania	NELAP	36-00037	01-31-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture

Method Summary

Client: Chemtech Consulting Group Inc.
Project/Site: PGW Richmond

Job ID: 410-192637-1

Method	Method Description	Protocol	Laboratory
8015D	Alcohols with GC/FID Direct Aqueous Injection	SW846	ELLE
8015D	Glycols- Direct Injection (GC/FID)	SW846	ELLE
Moisture	Percent Moisture	EPA	ELLE
DI Leach	Deionized Water Leaching Procedure	ASTM	ELLE

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Sample Summary

Client: Chemtech Consulting Group Inc.
Project/Site: PGW Richmond

Job ID: 410-192637-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-192637-1	SB-01-2.5-3.0	Solid	10/04/24 10:00	10/16/24 10:30
410-192637-2	SB-01-4.25-4.83	Solid	10/04/24 10:30	10/16/24 10:30
410-192637-3	SB-02-2.0-2.5	Solid	10/04/24 11:05	10/16/24 10:30
410-192637-4	SB-02-4.5-5.0	Solid	10/04/24 11:39	10/16/24 10:30
410-192637-5	SB-03-2.0-2.5	Solid	10/04/24 13:03	10/16/24 10:30
410-192637-6	SB-03-4.167-4.667	Solid	10/04/24 13:44	10/16/24 10:30
410-192637-7	SB-04-2.0-2.5	Solid	10/04/24 14:32	10/16/24 10:30
410-192637-8	SB-04-4.5-5.0	Solid	10/04/24 14:45	10/16/24 10:30

CHEMTECH

CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO. **P4364**
QUOTE NO. **P4364**
COC Number **2041919p4367**

CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: **TETRA TECH**
ADDRESS: **234 Mall Boulevard**
CITY: **KING OF PRUSSIA** STATE: **PA** ZIP: **19406**
ATTENTION:
PHONE: FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: **PGW - RICHMOND**
PROJECT NO. **QUOTE # Q2409035** LOCATION:
PROJECT MANAGER: **SEAN FULLMER**
e-mail: **sean.fullmer@tetratech.com**
PHONE: **610-382-3774** FAX: **N/A**

CLIENT BILLING INFORMATION

BILL TO: **SAME AS** PO#:
ADDRESS: **CLIENT**
CITY STATE: ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX (RUSH) DAYS*
HARDCOPY (DATA PACKAGE): DAYS*
EDD: **5-DAY TAT** DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☒ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP
☐ Level 3 (Results + QC) ☐ NYS ASP A ☐ NYS ASP B
+ Raw Data ☐ Other
☐ EDD FORMAT

ANALYSIS
GLYCOLS
90% DUIDS
SVOLCS-TCL
TOCS-TCL
PCBS
TAL METALS
CHLORIDE

PRESERVATIVES

COMMENTS

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	PRESERVATIVES									COMMENTS
			COMP	GRAB	DATE	TIME		1	2	3	4	5	6	7	8	9	
1.	SB-01-1.0-1.5	SO		X	10/4	9:38	1		X		X						
2.	SB-01-2.5-3.0	SO		X	10/4	10:00	3	X	X	X	X		X	X			
3.	SB-01-4.25-4.83	SO		X	10/4	10:30	3	X	X	X	X		X	X			
4.	SB-02-0.167-0.667	SO		X	10/4	11:00	1		X		X						
5.	SB-02-2.0-2.5	SO		X	10/4	11:05	3	X	X	X	X		X	X			
6.	SB-02-4.5-5.0	SO		X	10/4	11:39	3	X	X	X	X		X	X			
7.	SB-03-0.167-0.667	SO		X	10/4	12:39	1		X		X						
8.	SB-03-2.0-2.5	SO		X	10/4	13:03	3	X	X	X			X	X			
9.	SB-03-4.167-4.667	SO		X	10/4	13:44	3	X	X	X			X	X			
10.	SB-04-0.167-0.667	SO		X	10/4	14:14	1		X		X						

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER: 1. Andrew G. Isibors	DATE/TIME: 10/8/24 1815	RECEIVED BY: 1. [Signature]	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 3.7°C °C
RELINQUISHED BY SAMPLER: 2. FedEx	DATE/TIME: 10-9-24	RECEIVED BY: 2. [Signature]	Comments: 5-DAY TAT REQUESTED
RELINQUISHED BY SAMPLER: 3.	DATE/TIME:	RECEIVED BY: 3.	Page 1 of 2

CLIENT: ☐ Hand Delivered ☐ Other
CHEMTECH: ☐ Picked Up ☐ Field Sampling
Shipment Complete ☐ YES ☐ NO

CHEMTECH

CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO.

QUOTE NO.

COC Number 2041920 P4367

P4364

CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: Tetra Tech
ADDRESS: 234 Mail Boulevard
CITY: King of Prussia STATE: PA ZIP: 19406
ATTENTION:
PHONE: FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: PGW-Richmond
PROJECT NO.: Quote # Q2409035 LOCATION:
PROJECT MANAGER: Sean Fullmer
e-mail: sean.fullmer@tetratech.com
PHONE: 610-382-3774 FAX: N/A

CLIENT BILLING INFORMATION

BILL TO: same as PO#:
ADDRESS: Client
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 4 (QC + Full Raw Data)
☐ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP
☐ Level 3 (Results + QC) ☐ NYS ASP A ☐ NYS ASP B
+ Raw Data ☐ Other _____
☐ EDD FORMAT _____

Cyanide
TAL Metals + Hg
PCBs
SVOCs - TCL
Glycols
% Solids

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	PRESERVATIVES									COMMENTS
			COMP	GRAB	DATE	TIME		1	2	3	4	5	6	7	8	9	
1.	SB-04-2.0-2.5	SO		X	10/4	1432	3	X	X	X	X	X	X				
2.	SB-04-4.5-5.0	SO		X	10/4	1445	3	X	X	X	X	X	X				
3.	SB-05-0.167-0.667	SO		X	10/7	0904	1		X		X						
4.	SB-06-0.167-0.667	SO		X	10/7	1210	1		X		X						
5.	SB-07-0.167-0.667	SO		X	10/7	1419	1		X		X						
6.	SB-08-0.167-0.667	SO		X	10/7	1446	1		X		X						
7.																	
8.																	
9.																	
10.																	

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER: 1. <u>Andrew Ginters</u>	DATE/TIME: <u>10/8/24 1845</u>	RECEIVED BY: 1. <u>[Signature]</u>	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP: <u>3.7°C</u>
RELINQUISHED BY SAMPLER: 2. <u>FedEx</u>	DATE/TIME: <u>10-9-24</u>	RECEIVED BY: 2. <u>[Signature]</u>	Comments: <u>5-Day TAT Requested</u>
RELINQUISHED BY SAMPLER: 3.	DATE/TIME:	RECEIVED BY: 3.	Page <u>2</u> of <u>2</u> CLIENT: ☐ Hand Delivered ☐ Other _____ CHEMTECH: ☐ Picked Up ☐ Field Sampling

Shipment Complete
☐ YES ☐ NO



CHAIN OF CUSTODY RECORD



410-192637 Chain of Custody

Mountainside, NJ 07092

Fax (908) 789-8922

HEMTECH.NET

24100879

Sub Lab INFORMATION	CLIENT PROJECT INFORMATION	CLIENT BILLING INFORMATION
COMPANY : Summit Enviromental Technologies I	ORDER ID : P4367	BILL TO: CHEMTECH PO# : p4367
ADDRESS : 3310 Win St	PROJECT ID:PGW Richmond	ADDRESS : 284, Sheffield Street
CITY:Cuyahoga State :Ohio ZIP :44223	PROJECT MANAGER Yazmeen	CITY: Mountainside State : NJ ZIP : 07092
E-mail :	E-mail : YAZMEEN@CHEMTECH.NET	ATTENTION :Yazmeen
PHONE :330-253-8211	PHONE : (908) 789 8900 FAX: (908) 789 8922	PHONE : (908) 789 8900 FAX : (908) 789 8922

EDD : Excel PA

Report : Level 2

Comment : STATE - PA

ID	CLIENT SAMPLE IDENTIFICATION	SAMPLE MATRIX	ANALYSIS	Preservative	Method	SAMPLE COLLECTION		# OF BOTTLES	TAT DAYS
						DATE	TIME		
01	SB-01-2.5-3.0	Solid	ethylene glycol & methanol	Cool 4 deg C	8015	10/04/2024	10:00:00	1	5
02	SB-01-4.25-4.83	Solid	ethylene glycol & methanol	Cool 4 deg C	8015	10/04/2024	10:30:00	1	5
03	SB-02-2.0-2.5	Solid	ethylene glycol & methanol	Cool 4 deg C	8015	10/04/2024	11:05:00	1	5
04	SB-02-4.5-5.0	Solid	ethylene glycol & methanol	Cool 4 deg C	8015	10/04/2024	11:39:00	1	5
05	SB-03-2.0-2.5	Solid	ethylene glycol & methanol	Cool 4 deg C	8015	10/04/2024	13:03:00	1	5
06	SB-03-4.167-4.667	Solid	ethylene glycol & methanol	Cool 4 deg C	8015	10/04/2024	13:44:00	1	5
07	SB-04-2.0-2.5	Solid	ethylene glycol & methanol	Cool 4 deg C	8015	10/04/2024	14:32:00	1	5
08	SB-04-4.5-5.0	Solid	ethylene glycol & methanol	Cool 4 deg C	8015	10/04/2024	14:45:00	1	5

Fedex Trk # 7791 3017 1449

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGES POSSESSION INCLUDING COURIER DELIVERY				
RELINQUISHED BY SAMPLER: 1.	DATETIME: 10/19/24 1700	RECEIVED BY: 1.	Conditions of bottles or Coolers at receipt: ☐ Compliant ☐ Non Compliant Cooler Temp _____ Ice or Cooler? _____	
RELINQUISHED BY: 2.	DATETIME: 10/14/24 1340	RECEIVED BY: 2. 10/10/24	Fedex 5.6-0.1=55	R: 2.0 C: 2.0
RELINQUISHED BY: 3.	DATETIME: 10-16-24 10:30	RECEIVED BY: 3.	Page 1 of 1	☐ OVERNIGHT ☐ OVERNIGHT Shipment Complete: ☐ YES ☐ NO

Login Sample Receipt Checklist

Client: Chemtech Consulting Group Inc.

Job Number: 410-192637-1

Login Number: 192637

List Number: 1

Creator: Arroyo, Haley

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

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